

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

Final 1 Revision 1 - GSM Mice Core Study

<b>NTP Study Number:</b>	C20105		
<b>Lock Date:</b>	04/07/2016		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25023 MISS	25022 ACCK	25021 TSAC
	25020 NATD	25019 MSAC	
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include ALL		
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	3.0.2.3_002		
<b>PWG Approval Date:</b>	NONE		

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Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 588

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-1

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain Trigeminal Ganglion	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nerve Trigeminal	* Nose	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Brain		Hemorrhage	Mild
		Hepatocholangiocarcinoma	Metastatic (Liver)
		Mineral	Mild
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Hepatocholangiocarcinoma	Metastatic (Liver)
* Kidney		Hepatocholangiocarcinoma	Metastatic (Liver)
* Liver		Hepatocholangiocarcinoma	
	[ Hepatocholangiocarcinoma TGLs = 4-19, 5-19, 6-21 ]		
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
	[ Hepatocholangiocarcinoma TGLs = 3-10 ]		
Lymph Node	Axillary	Hepatocholangiocarcinoma	Metastatic (Liver)
	[ Hepatocholangiocarcinoma TGLs = 7-20 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
Mesentery	Fat	Hepatocholangiocarcinoma	Metastatic (Liver)
	[ Hepatocholangiocarcinoma TGLs = 9-24 ]		
* Pancreas		Hepatocholangiocarcinoma	Metastatic (Liver)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

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**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 588

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-1

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Peritoneum

[ Hepatocholangiocarcinoma TGLs = 8-22 ]

Hepatocholangiocarcinoma

Metastatic (Liver)

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Skeletal Muscle

[ Hepatocholangiocarcinoma TGLs = 13-3 ]

Hepatocholangiocarcinoma

Metastatic (Liver)

\* Thyroid GI

Note: One thyroid gland examined.

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PRIMARY CAUSE OF DEATH - Liver Hepatocholangiocarcinoma

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Animal Note: TGL 1 = NST; TGLs 2, 10, 11, & 12 = NCL

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Experiment Number: 20105 - 78

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First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-3

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Preputial Gland
- \* Skin
- Testis
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- \* Thymus

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
    - Subcapsular
      - Accessory Adrenal Cortical Nodule
      - Hyperplasia
      - Mineral
      - Cardiomyopathy
      - Nephropathy
      - Hepatocellular Carcinoma
  - \* Brain
  - \* Heart
  - \* Kidney
  - \* Liver
    - [ Hepatocellular Carcinoma TGLs = 1-12 ]
    - Hepatocellular Carcinoma
  - \* Lung
    - Hepatocellular Carcinoma
    - Hyperplasia
    - Hemorrhage
  - \* Lymph Node, Mandibular
  - \* Lymph Node, Mesenteric
  - \* Parathyroid GI
    - Note: One parathyroid examined.
    - Note: One parathyroid gland examined.
  - \* Salivary Glands
  - \* Spleen
  - \* Urinary Bladder
- Mild  
Minimal  
Minimal  
Chronicprogr, Mild  
Metastatic (Liver)  
Lymphoid, Minimal  
Mild  
Lymphocyte, Minimal  
Mild  
Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-4

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Prostate               | * Seminal Vesicle          | * Skeletal Muscle         |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| Testis                      | * Thymus                 | * Thyroid Gland            | * Trachea                 |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                             |                                                |                                |                     |
|-----------------------------|------------------------------------------------|--------------------------------|---------------------|
| * Adrenal Cortex            | Subcapsular                                    | Hyperplasia                    | Mild                |
| * Brain                     |                                                | Mineral                        | Minimal             |
| * Epididymis                |                                                | Infiltration Cellular          | Lymphocyte, Minimal |
| * Harderian Gland           |                                                | Adenocarcinoma                 |                     |
|                             | [ Adenocarcinoma TGLs = 5-5 ]                  |                                |                     |
| * Kidney                    |                                                | Nephropathy                    | Chronicprogr, Mild  |
| * Liver                     |                                                | Hepatocellular Adenoma         | Multiple            |
|                             | [ Hepatocellular Adenoma TGLs = 1-19 ]         | Hepatocellular Carcinoma       |                     |
|                             | [ Hepatocellular Carcinoma TGLs = 2-20 ]       |                                |                     |
| * Lung                      |                                                | Alveolar/Bronchiolar Carcinoma |                     |
|                             | [ Alveolar/Bronchiolar Carcinoma TGLs = 3-10 ] | Infiltration Cellular          | Histiocyte, Minimal |
| * Nose                      | Respirat Epith                                 | Hyperplasia                    | Mild                |
| * Peripheral Nerve, Sciatic | Axon                                           | Degeneration                   | Minimal             |
| * Preputial Gland           |                                                | Infiltration Cellular          | Lymphocyte, Minimal |
| * Salivary Glands           |                                                | Infiltration Cellular          | Lymphocyte, Mild    |
| * Skin                      |                                                | Ulcer                          | Moderate            |
|                             | [ Ulcer TGLs = 4-21 ]                          |                                |                     |

\* PROTOCOL REQUIRED TISSUE

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**Lab:** IIT

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**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-4

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

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First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 739

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-6

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Bone Marrow             |
| * Esophagus                 | * Eye                       | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric    | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Prostate                |
| * Seminal Vesicle           | * Skeletal Muscle           | * Skin                     | * Spinal Cord             |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       | Testis                    |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder          |                           |

MISSING

- |                             |                          |                 |                    |
|-----------------------------|--------------------------|-----------------|--------------------|
| * Brain Trigeminal Ganglion | * Lymph Node, Mandibular | * Mammary Gland | * Nerve Trigeminal |
| * Thymus                    |                          |                 |                    |

OBSERVATIONS

- |                          |               |                        |                       |
|--------------------------|---------------|------------------------|-----------------------|
| * Adrenal Cortex         | Subcapsular   | Hyperplasia            | Mild                  |
| * Brain                  |               | Mineral                | Minimal               |
| * Epididymis             |               | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Kidney                 | Interstitium  | Infiltration Cellular  | Lymphocyte, Mild      |
|                          |               | Nephropathy            | Chronicprogr, Minimal |
| * Liver                  |               | Fatty Change           | Minimal               |
|                          |               | Hepatocellular Adenoma |                       |
| [ Hepatocellular Adenoma | TGLs = 2-12 ] |                        |                       |
| Mesentery                | Fat           | Necrosis               | Mild                  |
| [ Necrosis               | TGLs = 3-6 ]  |                        |                       |
| * Preputial Gland        | Duct          | Dilation               | Marked                |
|                          |               | Infiltration Cellular  | Lymphocyte, Minimal   |
| [ Dilation               | TGLs = 1-16 ] |                        |                       |
| * Salivary Glands        |               | Infiltration Cellular  | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE



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First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-7

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Nerve Trigeminal          | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland           | * Preputial Gland         | * Prostate                  | * Seminal Vesicle        |
| * Skeletal Muscle           | * Skin                    | * Spinal Cord               | * Stomach, Forestomach   |
| Testis                      | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder           |                           |                             |                          |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- |                  |              |                          |                       |
|------------------|--------------|--------------------------|-----------------------|
| * Adrenal Cortex | Subcapsular  | Hyperplasia              | Mild                  |
| * Brain          |              | Mineral                  | Mild                  |
| * Kidney         | Interstitium | Infiltration Cellular    | Lymphocyte, Mild      |
|                  |              | Nephropathy              | Chronicprogr, Minimal |
| * Liver          |              | Hepatocellular Adenoma   | Multiple              |
|                  |              | Hepatocellular Carcinoma |                       |
|                  |              | Inflammation             | Chronic Active, Mild  |
|                  |              | Necrosis                 | Mild                  |

[ Hepatocellular Adenoma TGLs = 2-12, 4-12 ]

[ Hepatocellular Carcinoma TGLs = 3-19 ]

- \* Parathyroid GI

Note: One parathyroid gland examined.

Note: One parathyroid gland examined.

- \* Peripheral Nerve, Sciatic

Axon

Degeneration

Minimal

- \* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

- \* Spleen

Hyperplasia

Lymphoid, Moderate

[ Hyperplasia TGLs = 1-12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

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**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

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**Lab:** IIT

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**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-7

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

Epithelium

Hyperplasia

Focal, Mild

[ Hyperplasia TGLs = 5-14 ]

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 Lab: IIT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 568

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-8

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain Trigeminal Ganglion
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Aorta		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[ Alveolar/Bronchiolar Carcinoma TGLs = 2-11 ]		
* Brain		Mineral	Mild
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-11 ]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 1-10, 3-10 ]		
* Pituitary GI			
Note: Pars distalis examined.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

Animal Note: TGL 5 = NST

\* PROTOCOL REQUIRED TISSUE

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**CAS Number:** CELLPRADGSM

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**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-10

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nerve Trigeminal
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thymus	* Thyroid Gland
* Trachea			

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
* Brain		Mineral	Mild
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Metaplasia	Osseous
		Nephropathy	Chronicprogr, Minimal
Note: There is focal bone formation in one cortex.			
* Liver		Clear Cell Focus	
		Fatty Change	Mild
	[ Clear Cell Focus TGLs = 1-12 ]		
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

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First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 263

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-11

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Bone                    | * Brain                     | * Epididymis               | * Esophagus              |
| * Eye                     | * Gallbladder               | * Harderian Gland          | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Pancreas                | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Preputial Gland        |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle          | * Skeletal Muscle        |
| * Skin                    | * Spinal Cord               | * Stomach, Forestomach     | * Stomach, Glandular     |
| Testis                    | * Thyroid Gland             | * Trachea                  | * Urinary Bladder        |

MISSING

- |                             |                             |                 |                    |
|-----------------------------|-----------------------------|-----------------|--------------------|
| * Brain Trigeminal Ganglion | * Intestine Small, Duodenum | * Mammary Gland | * Nerve Trigeminal |
| * Parathyroid Gland         | * Thymus                    |                 |                    |

OBSERVATIONS

- |                          |                                       |                    |
|--------------------------|---------------------------------------|--------------------|
| * Adrenal Cortex         |                                       | Lymphoma Malignant |
| * Adrenal Medulla        |                                       | Lymphoma Malignant |
| * Aorta                  |                                       | Lymphoma Malignant |
| * Bone Marrow            |                                       | Lymphoma Malignant |
| * Heart                  |                                       | Lymphoma Malignant |
| * Intestine Large, Cecum |                                       | Lymphoma Malignant |
| * Kidney                 |                                       | Lymphoma Malignant |
| * Liver                  |                                       | Lymphoma Malignant |
| * Lung                   |                                       | Lymphoma Malignant |
| Lymph Node               | Bronchial                             | Lymphoma Malignant |
|                          | Mediastinal                           | Lymphoma Malignant |
|                          | Iliac                                 | Lymphoma Malignant |
|                          | Lumbar                                | Lymphoma Malignant |
| [ Lymphoma Malignant     | TGLs = 4-19 ]                         |                    |
| [ Lymphoma Malignant     | TGLs = 4-19, 5-20, 6-21, 7-21, 8-21 ] |                    |
| * Lymph Node, Mandibular |                                       | Lymphoma Malignant |
| [ Lymphoma Malignant     | TGLs = 1-9 ]                          |                    |
| * Lymph Node, Mesenteric |                                       | Lymphoma Malignant |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 263

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-11

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLs = 3-15 ]

\* Nose

Lymphoma Malignant

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 2-12 ]

---

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Kidney Lymphoma Malignant

- Lung Lymphoma Malignant

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Animal Note: TGLs 9 & 10 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-13

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Esophagus
- \* Bone
- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Eye
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Nose
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Prostate
- \* Pancreas
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Seminal Vesicle
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Brain
  - \* Epididymis
  - \* Harderian Gland
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Lymph Node, Mesenteric
  - \* Peripheral Nerve, Sciatic
  - \* Preputial Gland
  - Mineral
  - Infiltration Cellular
  - Infiltration Cellular
  - Cardiomyopathy
  - Infiltration Cellular
  - Nephropathy
  - Hepatocellular Adenoma
  - Hepatocellular Carcinoma
  - Hepatocellular Carcinoma
  - Hemangioma
  - Degeneration
  - Dilation
  - Inflammation
  - Minimal
  - Lymphocyte, Minimal
  - Lymphocyte, Minimal
  - Minimal
  - Lymphocyte, Mild
  - Chronicprogr, Mild
  - Multiple
  - Metastatic (Liver)
  - Minimal
  - Moderate
  - Chronic Active, Mild
- [ Hepatocellular Adenoma TGLs = 5-19, 6-20 ]
- [ Hepatocellular Carcinoma TGLs = 7-12,8-12 ]
- [ Hepatocellular Carcinoma TGLs = 9-10 ]
- [ Hemangioma TGLs = 2-15, 3-15 ]
- [ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-13

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Extramedullary Hematopoiesis

Mild

[ Extramedullary Hematopoiesis TGLs = 4-12 ]

\* Stomach, Glandular

Hemorrhage

Mild

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-14

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Minimal
- \* Kidney                                      Renal Tubule                      Cyst                                      Nephropathy                      Chronicprogr, Minimal
- \* Liver                                      Clear Cell Focus                      Hepatocellular Carcinoma
- [ Hepatocellular Carcinoma    TGLs = 1-19 ]
- \* Lung                                      Alveolar/Bronchiolar Adenoma                      Alveolar/Bronchiolar Carcinoma                      Infiltration Cellular                      Histiocyte, Mild
- [ Alveolar/Bronchiolar Carcinoma    TGLs = 2-10 ]
- \* Lymph Node, Mesenteric                      Infiltration Cellular                      Histiocyte, Mild
- \* Preputial Gland                      Bilateral, Duct                      Dilation                                      Mild
- \* Prostate                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-15

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Nerve Trigeminal          |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate               | * Seminal Vesicle          | * Skeletal Muscle           |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular        |
| Testis                      | * Thymus                 | * Thyroid Gland            | * Trachea                   |
| * Urinary Bladder           |                          |                            |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                     |                                |                              |                       |
|-------------------------------------|--------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex                    | Subcapsular                    | Hyperplasia                  | Mild                  |
| * Adren Medulla                     |                                |                              |                       |
| Note: One adrenal medulla examined. |                                |                              |                       |
| * Brain                             |                                | Mineral                      | Minimal               |
| * Epididymis                        |                                | Infiltration Cellular        | Lymphocyte, Mild      |
| * Harderian Gland                   |                                | Adenoma                      |                       |
|                                     |                                | Hemorrhage                   | Mild                  |
| * Kidney                            | Interstitium                   | Infiltration Cellular        | Lymphocyte, Mild      |
|                                     |                                | Nephropathy                  | Chronicprogr, Minimal |
| * Lung                              |                                | Alveolar/Bronchiolar Adenoma | Multiple              |
|                                     | [ Alveolar/Bronchiolar Adenoma | TGLs = 2-19, 3-20 ]          |                       |
| * Parathyroid GI                    |                                |                              |                       |
| Note: One parathyroid examined.     |                                |                              |                       |
| * Preputial Gland                   | Duct                           | Dilation                     | Moderate              |
| * Salivary Glands                   |                                | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Spinal Cord                       |                                | Necrosis                     | Minimal               |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-16

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                             |                             |                          |                          |
|-----------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                  | * Bone                   |
| * Bone Marrow               | * Brain Trigeminal Ganglion | * Epididymis             | * Esophagus              |
| * Eye                       | * Gallbladder               | * Heart                  | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Lymph Node, Mesenteric    | * Nose                      | * Pancreas               | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate               | * Salivary Glands        |
| * Seminal Vesicle           | * Skin                      | * Spinal Cord            | * Stomach, Forestomach   |
| * Stomach, Glandular        | Testis                      | * Thyroid Gland          | * Trachea                |
| * Urinary Bladder           |                             |                          |                          |

**MISSING**

- |                          |                 |                    |
|--------------------------|-----------------|--------------------|
| * Lymph Node, Mandibular | * Mammary Gland | * Nerve Trigeminal |
|--------------------------|-----------------|--------------------|

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Duodenum

**OBSERVATIONS**

- |                                 |                                                      |                          |                     |
|---------------------------------|------------------------------------------------------|--------------------------|---------------------|
| * Brain                         |                                                      | Mineral                  | Minimal             |
| * Harderian Gland               |                                                      | Infiltration Cellular    | Lymphocyte, Minimal |
| * Intestine Small, Jejunum      |                                                      | Hepatocellular Carcinoma | Metastatic (Liver)  |
| [ Hepatocellular Carcinoma      | TGLs = 4-14 ]                                        |                          |                     |
| * Kidney                        |                                                      | Hepatocellular Carcinoma | Metastatic (Liver)  |
|                                 |                                                      | Nephropathy              | Chronicprogr, Mild  |
| * Liver                         |                                                      | Hepatocellular Carcinoma |                     |
| [ Hepatocellular Carcinoma      | TGLs = 9-12, 10-12, 9-19, 9-20, 10-19, 10-20, 5-20 ] |                          |                     |
| * Lung                          |                                                      | Hepatocellular Carcinoma | Metastatic (Liver)  |
| [ Hepatocellular Carcinoma      | TGLs = 6-10 ]                                        |                          |                     |
| * Parathyroid Gland             |                                                      |                          |                     |
| Note: One parathyroid examined. |                                                      |                          |                     |
| * Preputial Gland               | Bilateral, Duct                                      | Dilation                 | Mild                |
|                                 |                                                      | Infiltration Cellular    | Lymphocyte, Minimal |
| [ Dilation                      | TGLs = 7-16 ]                                        |                          |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-16

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skeletal Muscle [ Degeneration TGLs = 8-11 ]	Degeneration	Mild
* Spleen	Extramedullary Hematopoiesis	Mild
* Thymus	Atrophy	Marked

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

---

Animal Note: TGL 1 = NST; TGLs 2 & 3 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-17

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Epididymis              | * Esophagus                 | * Eye                       | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Nerve Trigeminal         |
| * Nose                    | * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Prostate                | * Seminal Vesicle           | * Skeletal Muscle           | * Spinal Cord              |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                     |
| * Thymus                  | * Thyroid Gland             | * Trachea                   | * Urinary Bladder          |

MISSING

- |                             |                 |                     |
|-----------------------------|-----------------|---------------------|
| * Brain Trigeminal Ganglion | * Mammary Gland | * Parathyroid Gland |
|-----------------------------|-----------------|---------------------|

OBSERVATIONS

- |                   |                                          |                          |                       |
|-------------------|------------------------------------------|--------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                              | Hyperplasia              | Mild                  |
| * Brain           |                                          | Mineral                  | Minimal               |
| * Kidney          | Interstitium                             | Infiltration Cellular    | Lymphocyte, Mild      |
|                   |                                          | Nephropathy              | Chronicprogr, Minimal |
| * Liver           |                                          | Hepatocellular Carcinoma |                       |
|                   | [ Hepatocellular Carcinoma TGLs = 3-12 ] |                          |                       |
| * Lung            |                                          | Hepatocellular Carcinoma | Metastatic (Liver)    |
| * Preputial Gland | Duct                                     | Dilation                 | Marked                |
|                   | [ Dilation TGLs = 2-16 ]                 |                          |                       |
| * Salivary Glands |                                          | Infiltration Cellular    | Lymphocyte, Mild      |
| * Skin            |                                          | Pilomatrixoma            |                       |
|                   | [ Pilomatrixoma TGLs = 1-9.1RC ]         |                          |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-19

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Liver                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle           | * Skeletal Muscle         |
| * Skin                      | * Spinal Cord            | * Spleen                    | * Stomach, Glandular      |
| Testis                      | * Thymus                 | * Thyroid Gland             | * Trachea                 |
| * Urinary Bladder           |                          |                             |                           |

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |                                                      |             |                                |                       |
|------------------------------------------------------|-------------|--------------------------------|-----------------------|
| * Adrenal Cortex                                     | Subcapsular | Hyperplasia                    | Mild                  |
| * Adren Medulla                                      |             |                                |                       |
| Note: One adrenal medulla examined.                  |             |                                |                       |
| * Brain                                              |             | Mineral                        | Mild                  |
| * Epididymis                                         |             | Granuloma Sperm                | Moderate              |
|                                                      |             | Infiltration Cellular          | Lymphocyte, Mild      |
| * Harderian Gland                                    |             | Adenocarcinoma                 |                       |
|                                                      |             | Infiltration Cellular          | Lymphocyte, Minimal   |
| [ Adenocarcinoma TGLs = 3-5 ]                        |             |                                |                       |
| * Islets, Pancreatic                                 |             | Hyperplasia                    | Mild                  |
| * Kidney                                             |             | Nephropathy                    | Chronicprogr, Minimal |
| * Lung                                               |             | Alveolar/Bronchiolar Carcinoma |                       |
| [ Alveolar/Bronchiolar Carcinoma TGLs = 1-10, 2-19 ] |             |                                |                       |
| * Parathyroid Gland                                  |             |                                |                       |
| Note: One parathyroid examined.                      |             |                                |                       |
| * Preputial Gland                                    |             | Infiltration Cellular          | Lymphocyte, Mild      |
| * Stomach, Forestomach                               | Epithelium  | Hyperplasia                    | Focal, Mild           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-19

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 4-20 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 738

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-20

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain                   | * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                      |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   |
| * Nose                    | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Prostate                | * Seminal Vesicle           | * Skeletal Muscle           | * Skin                     |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                    | * Thymus                    | * Thyroid Gland             | * Trachea                  |
| * Urinary Bladder         |                             |                             |                            |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                     |                                                                |                        |                       |
|---------------------|----------------------------------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex    | Subcapsular                                                    | Hyperplasia            | Minimal               |
| * Epididymis        |                                                                | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Harderian Gland   |                                                                | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Kidney            | Interstitium                                                   | Infiltration Cellular  | Lymphocyte, Mild      |
|                     |                                                                | Nephropathy            | Chronicprogr, Minimal |
| * Liver             |                                                                | Hepatoblastoma         |                       |
|                     |                                                                | Hepatocellular Adenoma | Multiple              |
|                     | [ Hepatocellular Adenoma TGLs = 2-12, 3-12, 5-12, 1-19, 4-19 ] |                        |                       |
| * Pancreas          |                                                                | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Parathyroid Gland |                                                                |                        |                       |
|                     | Note: One parathyroid gland examined.                          |                        |                       |
| * Preputial Gland   |                                                                | Infiltration Cellular  | Lymphocyte, Mild      |
| * Salivary Glands   |                                                                | Infiltration Cellular  | Lymphocyte, Mild      |
| Tooth               |                                                                | Dysplasia              | Minimal               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 739

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-21

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Stomach, Forestomach	Testis	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

INSUFFICIENT TISSUE

\* Stomach, Glandular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 1-20, 2-12, 3-12, 4-12, 5-20 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 6-19 ]		
* Parathyroid Gland			
Note: One parathyroid examined.			
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 739

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-21

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Hyperplasia

Lymphoid, Mild

Tooth

Dysplasia

Minimal

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-23

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skin
- Testis
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Minimal
- \* Intestine Small, Jejunum              Epithelium                              Cyst
- \* Islets, Pancreatic                      Hyperplasia                              Moderate
- \* Kidney                                      Renal Tubule                              Cyst
- Interstitialium                              Infiltration Cellular                      Lymphocyte, Mild
- Metaplasia                                      Osseous
- Nephropathy                                      Chronicprogr, Minimal
- [ Cyst    TGLs = 1-13 ]
- \* Liver                                      Clear Cell Focus
- Eosinophilic Focus
- Fatty Change                                      Mild
- Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 2-12 ]
- \* Lung                                      Alveolar/Bronchiolar Adenoma
- \* Nose                                      Respirat Epith                              Hyperplasia                              Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-23

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Preputial Gland	Bilateral, Duct	Dilation Infiltration Cellular	Mild Lymphocyte, Minimal
[ Dilation TGLs = 3-16 ]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
Tooth		Dysplasia	Moderate

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 676

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-24

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- Testis

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Heart                                      Myocardium                      Mineral                                      Minimal
- \* Kidney                                      Nephropathy                      Nephropathy                      Chronicprogr, Mild
- [ Nephropathy    TGLs = 3-13, 4-13 ]
- \* Liver                                      Fibrosis                                      Mild
- Hepatocellular Adenoma                      Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 6-19,1-12 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Prostate                                      Inflammation                      Inflammation                      Chronic Active, Moderate
- [ Inflammation    TGLs = 5-16 ]
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Mild
- \* Seminal Vesicle                      Inflammation                      Inflammation                      Chronic Active, Mild
- \* Urinary Bladder                      Infiltration Cellular                      Infiltration Cellular                      Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH                      - Liver    Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 24

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 676

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-24

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 725

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-25

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Heart	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Nerve Trigeminal	* Nose	* Pancreas
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hemangiosarcoma	
		Hepatocellular Carcinoma	
		Necrosis	Moderate
	[ Hemangiosarcoma TGLs = 5-20 ]		
	[ Hepatocellular Carcinoma TGLs = 3-12 ]		
	[ Necrosis TGLs = 4-12, 5-20 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Alveolar/Bronchiolar Adenoma TGLs = 1-10 ]		
* Lymph Node, Mesenteric		Erythrophagocytosis	Moderate
	[ Erythrophagocytosis TGLs = 9-15, 10-15 ]		
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 6-13 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 725

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-25

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Infiltration Cellular	Lymphocyte, Minimal
* Skin	Infiltration Cellular	Mixed Cell, Minimal
[ Infiltration Cellular TGLs = 11-21 ]		
* Spleen	Extramedullary Hematopoiesis	Mild
* Thymus	Atrophy	Marked
Tooth	Dysplasia	Minimal
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 2 = NST; TGLs 7 & 8 = NCL





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 488

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-29

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                    |                   |                          |
|-----------------------------|--------------------|-------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla  | * Aorta           | * Bone                   |
| * Bone Marrow               | * Brain            | * Epididymis      | * Esophagus              |
| * Eye                       | * Harderian Gland  | * Heart           | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric    | * Nerve Trigeminal | * Pancreas        | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Prostate         | * Salivary Glands | * Skeletal Muscle        |
| * Skin                      | * Spinal Cord      | * Spleen          | * Stomach, Glandular     |
| Testis                      | * Thyroid Gland    | * Trachea         |                          |

MISSING

- |                             |               |                          |                 |
|-----------------------------|---------------|--------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Gallbladder | * Intestine Small, Ileum | * Mammary Gland |
|-----------------------------|---------------|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- |                            |                          |                           |                             |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Stomach, Forestomach   |                           |                             |

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                      |                            |                               |                     |
|----------------------|----------------------------|-------------------------------|---------------------|
| * Islets, Pancreatic |                            | Hyperplasia                   | Mild                |
| * Kidney             | Glomerulus                 | Cyst                          |                     |
|                      |                            | Infarct                       | Mild                |
| * Liver              |                            | Fatty Change                  | Moderate            |
| * Lung               |                            | Alveolar/Bronchiolar Adenoma  |                     |
|                      |                            | Congestion                    | Moderate            |
|                      | [ Congestion TGLs = 4-10 ] |                               |                     |
| * Nose               | Respirat Epith             | Accumulation, Hyaline Droplet | Mild                |
| * Preputial Gland    |                            | Infiltration Cellular         | Lymphocyte, Minimal |
| * Seminal Vesicle    | Bilateral                  | Dilation                      | Moderate            |
|                      | [ Dilation TGLs = 1-16 ]   |                               |                     |
| * Thymus             |                            | Hemorrhage                    | Moderate            |
|                      | [ Hemorrhage TGLs = 5-6 ]  |                               |                     |
| Tooth                |                            | Dysplasia                     | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 488

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-29

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Hemorrhage

Mild

[ Hemorrhage TGLs = 3-13 ]

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**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

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Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-30

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                       | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Lung                      | * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                  | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle           | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                      | * Thymus                    | * Thyroid Gland             | * Trachea                  |
| * Urinary Bladder           |                             |                             |                            |

**MISSING**

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

**OBSERVATIONS**

- |                                 |              |                       |                      |
|---------------------------------|--------------|-----------------------|----------------------|
| * Adrenal Cortex                | Subcapsular  | Hyperplasia           | Mild                 |
| * Brain                         |              | Mineral               | Mild                 |
| * Epididymis                    |              | Infiltration Cellular | Lymphocyte, Mild     |
| * Islets, Pancreatic            |              | Hyperplasia           | Moderate             |
| * Kidney                        | Interstitium | Infiltration Cellular | Lymphocyte, Mild     |
|                                 |              | Nephropathy           | Chronicprogr, Mild   |
| * Liver                         |              | Fatty Change          | Minimal              |
|                                 |              | Infiltration Cellular | Mixed Cell, Minimal  |
| * Parathyroid GI                |              |                       |                      |
| Note: One parathyroid examined. |              |                       |                      |
| * Preputial Gland               |              | Infiltration Cellular | Lymphocyte, Moderate |
| * Salivary Glands               |              | Infiltration Cellular | Lymphocyte, Mild     |

Animal Note: TGL 1 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-31

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mandibular    | * Nerve Trigeminal          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Prostate                |
| * Seminal Vesicle           | * Skeletal Muscle           | * Skin                     | * Spinal Cord             |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       | Testis                    |
| * Thymus                    | * Thyroid Gland             | * Trachea                  |                           |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                 |                                        |                        |                       |
|---------------------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex                | Subcapsular                            | Hyperplasia            | Mild                  |
| * Brain                         |                                        | Mineral                | Minimal               |
| * Epididymis                    |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Harderian Gland               |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Islets, Pancreatic            |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Kidney                        | Interstitium                           | Infiltration Cellular  | Lymphocyte, Mild      |
|                                 |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver                         |                                        | Fatty Change           | Mild                  |
|                                 |                                        | Hepatocellular Adenoma |                       |
|                                 | [ Hepatocellular Adenoma TGLs = 1-12 ] |                        |                       |
| * Lymph Node, Mesenteric        |                                        | Infiltration Cellular  | Histiocyte, Mild      |
| * Parathyroid GI                |                                        |                        |                       |
| Note: One parathyroid examined. |                                        |                        |                       |
| * Preputial Gland               |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Salivary Glands               |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Urinary Bladder               |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-32

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nose
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- Testis
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Islets, Pancreatic
- \* Mammary Gland
- \* Nerve Trigeminal
- \* Pancreas
- \* Thymus

OBSERVATIONS

- \* Adren Medulla
  - Note: One adrenal medulla examined.
- \* Brain
  - Mineral
  - Infiltration Cellular
  - Nephropathy
  - Clear Cell Focus
  - Fatty Change
  - Hepatocellular Adenoma
- \* Harderian Gland
  - Minimal
  - Lymphocyte, Minimal
  - Chronicprogr, Mild
- \* Kidney
  - Mild
- \* Liver
  - Multiple
- [ Hepatocellular Adenoma TGLs = 1-19, 2-12, 3-12 ]
- \* Parathyroid GI
  - Note: One parathyroid gland examined.
- \* Salivary Glands
  - Infiltration Cellular
- \* Seminal Vesicle
  - Lymphocyte, Minimal
  - Mild
- Tooth
  - Dysplasia
  - Marked
- \* Urinary Bladder
  - Infiltration Cellular
  - Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 350

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-33

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                             |
|---------------------------|-----------------------------|----------------------------|-----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta                    | * Bone                      |
| * Bone Marrow             | * Brain Trigeminal Ganglion | * Epididymis               | * Esophagus                 |
| * Eye                     | * Harderian Gland           | * Heart                    | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Kidney                  | * Lung                      | * Lymph Node, Mandibular   | * Nerve Trigeminal          |
| * Nose                    | * Pancreas                  | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland         | * Preputial Gland           | * Prostate                 | * Salivary Glands           |
| * Seminal Vesicle         | * Skeletal Muscle           | * Skin                     | * Spinal Cord               |
| Testis                    | * Thyroid Gland             | * Trachea                  | * Urinary Bladder           |

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- |               |                          |                             |                          |
|---------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Lymph Node, Mesenteric |
| * Spleen      | * Stomach, Forestomach   | * Stomach, Glandular        |                          |

OBSERVATIONS

- |                                     |     |              |         |
|-------------------------------------|-----|--------------|---------|
| * Adren Medulla                     |     |              |         |
| Note: One adrenal medulla examined. |     |              |         |
| * Brain                             |     | Mineral      | Minimal |
| * Liver                             |     | Fatty Change | Marked  |
| [ Fatty Change TGLs = 1-12 ]        |     |              |         |
| Mesentery                           | Fat | Necrosis     | Mild    |
| [ Necrosis TGLs = 5-19 ]            |     |              |         |
| * Thymus                            |     | Atrophy      | Marked  |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 2, 3, & 4 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 738

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-34

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Salivary Glands
- \* Spinal Cord
- Testis
- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Heart                                      Artery                                      Inflammation                      Chronic Active, Mild
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Fatty Change                                      Minimal
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland                      Duct                                      Dilatation                                      Moderate
- Infiltration Cellular                      Lymphocyte, Mild
- [ Dilatation    TGLs = 1-16 ]
- \* Thymus                                              Cyst
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Minimal

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-35

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Prostate	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Infarct	Mild
	Interstitium	Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Hepatoblastoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Clear Cell Focus	TGLs = 2-12 ]	
	[ Hepatoblastoma	TGLs = 4-12 ]	
	[ Hepatocellular Adenoma	TGLs = 3-12 ]	
	[ Hepatocellular Carcinoma	TGLs = 1-12 ]	
* Parathyroid Gland			
	Note: One parathyroid gland examined.		
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-35

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Seminal Vesicle

Bilateral

Dilation

Mild

Testis

Germ Cell

Degeneration

Minimal

Tooth

Dysplasia

Marked

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

Animal Note: TGL 5 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-36

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Pancreas
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Brain Trigeminal Ganglion
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland
- \* Thymus

OBSERVATIONS

- \* Brain
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Preputial Gland
  - \* Stomach, Forestomach
  - \* Thyroid GI
- [ Hepatocellular Carcinoma TGLs = 1-11, 2-11, 3-11, 4-11 ]
- Interstitial
  - Bronchiole
  - Bronchiole
  - Epithelium
- Mineral
  - Infiltration Cellular
  - Hepatocellular Carcinoma
  - Necrosis
  - Foreign Body
  - Hepatocellular Carcinoma
  - Inflammation
  - Inflammation
  - Infiltration Cellular
  - Hyperplasia
- Minimal
  - Lymphocyte, Minimal
  - Mild
  - Metastatic (Liver)
  - Suppurative, Mild
  - Acute, Mild
  - Lymphocyte, Minimal
  - Focal, Mild

Note: One thyroid gland examined.

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGLs 5 & 6 = NCL

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 37

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-37

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                             |                           |
|-----------------------------|----------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Epididymis               | * Esophagus                 | * Eye                     |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        | * Lung                    |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Nerve Trigeminal          | * Nose                    |
| * Pancreas                  | * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Preputial Gland           | * Seminal Vesicle          | * Skeletal Muscle           | * Skin                    |
| * Spinal Cord               | * Stomach, Forestomach     | * Stomach, Glandular        | Testis                    |
| * Thymus                    | * Thyroid Gland            | * Trachea                   |                           |

**MISSING**

- |               |                   |                 |
|---------------|-------------------|-----------------|
| * Gallbladder | * Harderian Gland | * Mammary Gland |
|---------------|-------------------|-----------------|

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Duodenum

**OBSERVATIONS**

- |                     |                                                |                              |                       |
|---------------------|------------------------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex    | Subcapsular                                    | Hyperplasia                  | Mild                  |
| * Brain             |                                                | Mineral                      | Mild                  |
| * Kidney            |                                                | Nephropathy                  | Chronicprogr, Minimal |
| * Liver             |                                                | Hepatocellular Carcinoma     |                       |
|                     | [ Hepatocellular Carcinoma TGLs = 1-12, 2-12 ] |                              |                       |
| * Parathyroid Gland |                                                |                              |                       |
|                     | Note: One parathyroid gland examined.          |                              |                       |
| * Preputial Gland   |                                                |                              |                       |
|                     | Note: One preputial gland examined.            |                              |                       |
| * Prostate          |                                                | Infiltration Cellular        | Lymphocyte, Mild      |
| * Salivary Glands   |                                                | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Spleen            |                                                | Extramedullary Hematopoiesis | Mild                  |
|                     | [ Extramedullary Hematopoiesis TGLs = 3-12 ]   |                              |                       |
| Tooth               |                                                | Dysplasia                    | Minimal               |
| * Urinary Bladder   |                                                | Infiltration Cellular        | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 37

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-37

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 4 = NST; TGL 5 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-38

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Nerve Trigeminal       | * Nose                     | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate               | * Salivary Glands          | * Spinal Cord               |
| * Stomach, Forestomach      | Testis                   | * Thymus                   | * Thyroid Gland             |
| * Trachea                   | * Urinary Bladder        |                            |                             |

MISSING

- |                          |                 |            |                     |
|--------------------------|-----------------|------------|---------------------|
| * Lymph Node, Mandibular | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland        |                 |            |                     |

INSUFFICIENT TISSUE

- \* Harderian Gland

OBSERVATIONS

- |                          |                                                      |                                |                     |
|--------------------------|------------------------------------------------------|--------------------------------|---------------------|
| * Adrenal Cortex         | Bilateral                                            | Malignant Fibrous Histiocytoma | Metastatic (Skin)   |
| * Brain                  |                                                      | Mineral                        | Minimal             |
| * Epididymis             |                                                      | Infiltration Cellular          | Lymphocyte, Minimal |
| * Kidney                 |                                                      | Malignant Fibrous Histiocytoma | Metastatic (Skin)   |
|                          |                                                      | Nephropathy                    | Chronicprogr, Mild  |
|                          | [ Malignant Fibrous Histiocytoma TGLs = 5-13 ]       |                                |                     |
|                          | [ Nephropathy TGLs = 5-13 ]                          |                                |                     |
| * Liver                  |                                                      | Hepatocellular Carcinoma       |                     |
|                          |                                                      | Malignant Fibrous Histiocytoma | Metastatic (Skin)   |
|                          | [ Hepatocellular Carcinoma TGLs = 7-12, 7-19 ]       |                                |                     |
|                          | [ Malignant Fibrous Histiocytoma TGLs = 8-12, 7-19 ] |                                |                     |
| * Lymph Node, Mesenteric |                                                      | Malignant Fibrous Histiocytoma | Metastatic (Skin)   |
| Mesentery                |                                                      | Malignant Fibrous Histiocytoma | Metastatic (Skin)   |
|                          | [ Malignant Fibrous Histiocytoma TGLs = 4-6, 4-15 ]  |                                |                     |
| * Seminal Vesicle        | Bilateral                                            | Dilation                       | Moderate            |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-38

ORGAN AND ACCOUNTABLE SITE STATUS

[ Dilation TGLs = 3-16 ]

Malignant Fibrous Histiocytoma

Metastatic (Skin)

\* Skeletal Muscle

Malignant Fibrous Histiocytoma

Metastatic (Skin)

\* Skin

Subcut Tiss

Malignant Fibrous Histiocytoma

[ Malignant Fibrous Histiocytoma TGLs = 1-20 ]

\* Spleen

Extramedullary Hematopoiesis

Mild

\* Stomach, Glandular

Malignant Fibrous Histiocytoma

Metastatic (Skin)

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Malignant Fibrous Histiocytoma Skin

Animal Note: TGLs 2 & 6 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-39

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
  - Hyperplasia
  - Hypertrophy
  - Minimal
  - Focal, Minimal
- [ Hypertrophy TGLs = 1-7 ]
- \* Brain
  - Mineral
  - Infiltration Cellular
  - Adenoma
  - Infiltration Cellular
  - Minimal
  - Lymphocyte, Minimal
- \* Epididymis
- \* Harderian Gland
  - Adenoma
  - Infiltration Cellular
  - Lymphocyte, Minimal
- [ Adenoma TGLs = 3-5 ]
- \* Kidney
  - Interstitial
  - Infiltration Cellular
  - Nephropathy
  - Fatty Change
  - Hepatocellular Adenoma
  - Lymphocyte, Mild
  - Chronicprogr, Minimal
- \* Liver
  - Hepatocellular Adenoma
  - TGLs = 2-12 ]
  - Alveolar/Bronchiolar Adenoma
- \* Lung
- \* Lymph Node, Mesenteric
  - Hemorrhage
  - Mild
- Mesentery
  - Fat
  - Necrosis
  - Moderate
- [ Necrosis TGLs = 4-19 ]
- \* Parathyroid GI

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 39

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-39

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One parathyroid gland examined.

\* Pituitary Gland

Note: Pars distalis examined.

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Skeletal Muscle

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-41

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                           |                             |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                    | * Bone Marrow               |
| * Epididymis                | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Nerve Trigeminal          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Prostate                | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord              | * Spleen                  | * Stomach, Glandular        |
| Testis                      | * Thymus                   | * Thyroid Gland           | * Trachea                   |

MISSING

- |                             |               |                 |
|-----------------------------|---------------|-----------------|
| * Brain Trigeminal Ganglion | * Gallbladder | * Mammary Gland |
|-----------------------------|---------------|-----------------|

OBSERVATIONS

- |                                       |                                          |                          |                    |
|---------------------------------------|------------------------------------------|--------------------------|--------------------|
| * Adrenal Cortex                      | Subcapsular                              | Hyperplasia              | Mild               |
| * Brain                               |                                          | Mineral                  | Minimal            |
| * Harderian Gland                     |                                          | Infiltration Cellular    | Lymphocyte, Mild   |
| * Islets, Pancreatic                  |                                          | Hyperplasia              | Mild               |
| * Kidney                              | Interstitium                             | Infiltration Cellular    | Lymphocyte, Mild   |
|                                       |                                          | Metaplasia               | Osseous            |
| * Liver                               |                                          | Nephropathy              | Chronicprogr, Mild |
|                                       |                                          | Fatty Change             | Minimal            |
|                                       |                                          | Hepatocellular Adenoma   |                    |
|                                       |                                          | Hepatocellular Carcinoma |                    |
|                                       | [ Hepatocellular Carcinoma TGLs = 3-12 ] |                          |                    |
| * Lung                                | Alveolar Epith                           | Hyperplasia              | Focal, Minimal     |
| * Parathyroid GI                      |                                          |                          |                    |
| Note: One parathyroid gland examined. |                                          |                          |                    |
| * Preputial Gland                     |                                          | Infiltration Cellular    | Lymphocyte, Mild   |
| * Salivary Glands                     |                                          | Infiltration Cellular    | Lymphocyte, Mild   |
| * Seminal Vesicle                     | Bilateral                                | Dilation                 | Moderate           |
|                                       | [ Dilation TGLs = 1-16 ]                 |                          |                    |
| * Stomach, Forestomach                | Epithelium                               | Hyperplasia              | Focal, Mild        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 41

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-41

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-42

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Nerve Trigeminal	* Nose	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Brain Trigeminal Ganglion	* Gallbladder	* Intestine Small, Duodenum	* Lymph Node, Mesenteric
* Mammary Gland	* Thymus		

**AUTO PRECLUDES DIAG.**

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

**OBSERVATIONS**

* Adren Medulla Note: One adrenal medulla examined.			
* Brain		Mineral	Minimal
* Liver [ Hepatocellular Carcinoma TGLs = 7-12, 8-12, 9-19, 3-23 ]		Hepatocellular Carcinoma	
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node [ Hemorrhage TGLs = 5-22 ]	Renal	Hemorrhage	Moderate
* Pancreas		Hemorrhage	Moderate
* Parathyroid GI Note: One parathyroid gland examined.			
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Skeletal Muscle [ Hepatocellular Carcinoma TGLs = 4-19 ]		Hepatocellular Carcinoma	Metastatic (Liver)
* Skin Subcut Tiss		Hemangiosarcoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-42

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hemangiosarcoma TGLs = 6-21 ]

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 2-12 ]

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

---

Animal Note: TGL 1 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-43

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Minimal
- [ Nephropathy    TGLs = 1-13 ]                      Nephropathy                                              Chronicprogr, Mild
- \* Liver                                                                                              Clear Cell Focus
- Hepatocellular Adenoma
- \* Lung                                                                                              Alveolar/Bronchiolar Adenoma
- Alveolar/Bronchiolar Carcinoma
- [ Alveolar/Bronchiolar Carcinoma    TGLs = 4-10 ]
- Mesentery                                              Fat                                              Necrosis                                              Mild
- [ Necrosis    TGLs = 3-19 ]
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Preputial Gland                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Salivary Glands                                              Infiltration Cellular                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 43

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-43

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Seminal Vesicle

Bilateral

Dilation

Moderate

\* Spleen

Hyperplasia

Lymphoid, Mild

Tooth

Dysplasia

Moderate

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-44

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-45

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder               |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Nerve Trigeminal          |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Salivary Glands           | * Seminal Vesicle        | * Skeletal Muscle          | * Skin                      |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular        |
| Testis                      | * Thymus                 | * Thyroid Gland            | * Trachea                   |
| * Urinary Bladder           |                          |                            |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                                  |                                                          |                                                                |                                                    |
|--------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|
| * Adrenal Cortex                                 | Subcapsular                                              | Hyperplasia<br>Hypertrophy<br>Inflammation                     | Mild<br>Focal, Mild<br>Chronic, Moderate           |
| Blood Vessel                                     |                                                          |                                                                |                                                    |
| Note: The renal artery has chronic inflammation. |                                                          |                                                                |                                                    |
| * Brain                                          |                                                          | Mineral                                                        | Minimal                                            |
| * Epididymis                                     |                                                          | Infiltration Cellular                                          | Lymphocyte, Minimal                                |
| * Heart                                          |                                                          | Cardiomyopathy                                                 | Minimal                                            |
| * Kidney                                         | Interstitialium                                          | Infiltration Cellular<br>Nephropathy<br>Hepatocellular Adenoma | Lymphocyte, Mild<br>Chronicprogr, Mild<br>Multiple |
| * Liver                                          | [ Hepatocellular Adenoma TGLs = 2-12, 3-12, 4-12, 5-19 ] |                                                                |                                                    |
| Mesentery                                        | Fat                                                      | Necrosis                                                       | Mild                                               |
|                                                  | [ Necrosis TGLs = 1-6 ]                                  |                                                                |                                                    |
| * Pituitary Gland                                | Pars Distalis                                            | Cyst                                                           |                                                    |
| * Preputial Gland                                |                                                          | Infiltration Cellular                                          | Lymphocyte, Mild                                   |
| * Prostate                                       |                                                          | Infiltration Cellular                                          | Lymphocyte, Minimal                                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-46

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Colon
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Intestine Large, Rectum
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Gallbladder
- \* Lymph Node, Mandibular
- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Mild
- \* Heart                                      Bacteria                                      Minimal
- Cardiomyopathy                              Chronic Active, Minimal
- Inflammation                                      Marked
- Thrombus                                      Lymphocyte, Minimal
- \* Islets, Pancreatic                      Infiltration Cellular                      Chronicprogr, Minimal
- \* Kidney                                      Nephropathy                                      Chronic Active, Minimal
- \* Liver                                      Inflammation                                      Mild
- \* Lung                                      Hemorrhage                                      Mild
- [ Hemorrhage    TGLs = 1-10 ]
- \* Lymph Node, Mesenteric                      Infiltration Cellular                      Histiocyte, Mild
- [ Infiltration Cellular    TGLs = 2-15 ]
- \* Pancreas                                      Duct                                      Cyst

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-46

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid GI	Duct	Fibrosis	Mild
Note: One parathyroid gland examined.			
* Pituitary GI			
Note: Pars distalis examined.			
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Mild
[ Dilation TGLs = 3-16 ]			
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-47

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thyroid Gland          | * Trachea                   |

MISSING

- |                 |          |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

- |                   |                                               |                          |                       |
|-------------------|-----------------------------------------------|--------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                                   | Hyperplasia              | Mild                  |
| * Brain           |                                               | Mineral                  | Mild                  |
| * Harderian Gland |                                               | Infiltration Cellular    | Lymphocyte, Minimal   |
| * Kidney          | Interstitium                                  | Infiltration Cellular    | Lymphocyte, Minimal   |
|                   |                                               | Nephropathy              | Chronicprogr, Minimal |
| * Liver           |                                               | Hepatocellular Adenoma   |                       |
|                   |                                               | Hepatocellular Carcinoma | Multiple              |
|                   | [ Hepatocellular Carcinoma TGLs = 2-12,1-19 ] |                          |                       |
| * Lung            |                                               | Infiltration Cellular    | Histiocyte, Mild      |
| * Parathyroid GI  |                                               |                          |                       |
|                   | Note: One parathyroid gland examined.         |                          |                       |
| * Preputial Gland |                                               | Infiltration Cellular    | Lymphocyte, Minimal   |
| * Salivary Glands |                                               | Infiltration Cellular    | Lymphocyte, Minimal   |
| * Urinary Bladder |                                               | Infiltration Cellular    | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-49

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Islets, Pancreatic                      Hyperplasia                      Mild
- \* Kidney                      Nephropathy                      Chronicprogr, Mild
- \* Liver                      Clear Cell Focus                      Fatty Change                      Mild
- [ Clear Cell Focus    TGLs = 1-12 ]
- \* Lung                      Alveolar/Bronchiolar Adenoma                      Alveolar/Bronchiolar Carcinoma                      Multiple
- \* Nose                      Respirat Epith                      Hyperplasia                      Mild
- \* Preputial Gland                      Infiltration Cellular                      Lymphocyte, Mild
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Seminal Vesicle                      Bilateral                      Dilation                      Mild
- Tooth                      Dysplasia                      Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 455

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-50

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone
- \* Esophagus
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Aorta
  - \* Bone Marrow
  - \* Brain
  - [ Hemorrhage TGLs = 10-1 ]
  - \* Epididymis
  - \* Gallbladder
  - \* Harderian Gland
  - \* Heart
  - Epicardium
  - Endocardium
  - Epicardium
  - \* Islets, Pancreatic
  - \* Kidney
  - \* Liver
  - [ Lymphoma Malignant TGLs = 7-12 ]
  - \* Lung
  - Lymph Node
  - [ Lymphoma Malignant TGLs = 5-19 ]
- Lymphoma Malignant
  - Lymphoma Malignant
  - Hemorrhage
  - Mineral
  - Lymphoma Malignant
  - Lymphoma Malignant
  - Infiltration Cellular
  - Cardiomyopathy
  - Inflammation
  - Mineral
  - Mineral
  - Hyperplasia
  - Lymphoma Malignant
  - Fatty Change
  - Lymphoma Malignant
  - Lymphoma Malignant
  - Lymphoma Malignant
- Mild
  - Minimal
  - Lymphocyte, Minimal
  - Minimal
  - Chronic, Mild
  - Mild
  - Mild
  - Mild
  - Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 455

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-50

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 3-15 ]		
* Nose		Lymphoma Malignant	
* Parathyroid G1			
	Note: One parathyroid examined		
* Pituitary G1			
	Note: Pars distalix examined		
* Prostate		Lymphoma Malignant	
* Seminal Vesicle	Bilateral	Dilation	Minimal
	[ Dilation TGLs = 8-16 ]		
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 1-12 ]		
* Thymus		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 9-6 ]		
Tooth		Dysplasia	Mild

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Lymphoma Malignant  
 - Lung Lymphoma Malignant  
 - Lymph Node, Mandibular Lymphoma Malignant  
 - Spleen Lymphoma Malignant

Animal Note: TGLs 2 & 6 = NST



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 622

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-51

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow                                                                Hypercellularity                      Mild
- \* Brain                                                                Mineral                      Mild
- \* Epididymis                                                                Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                                                                Infiltration Cellular                      Lymphocyte, Minimal
- \* Intestine Small, Duodenum                                                                Adenocarcinoma
- [ Adenocarcinoma    TGLs = 6-14 ]
- \* Kidney                                                                Infarct                      Moderate
- Interstitium                      Lymphocyte, Mild
- Inflammation                      Suppurative, Moderate
- Urothelium                      Chronic Active, Minimal
- [ Inflammation    TGLs = 3-13 ]
- \* Liver                                                                Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 5-12 ]
- \* Peripheral Nerve, Sciatic                      Axon                      Degeneration                      Mild
- \* Salivary Glands                                                                Infiltration Cellular                      Lymphocyte, Mild
- \* Skeletal Muscle                                                                Sarcoma
- [ Sarcoma    TGLs = 8-19 ]
- \* Thymus                                                                Atrophy                      Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 51

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 622

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-51

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Cyst

---

**PRIMARY CAUSE OF DEATH** - Intestine Small, Duodenum Adenocarcinoma

**CONTRIBUTORY CAUSE OF DEATH** - Skeletal Muscle Sarcoma

---

Animal Note: TGLs 1, 2, & 7 = NCL

Animal Note: TGL 4 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-52

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Salivary Glands
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Adenoma
- \* Kidney                                      Infarct                                      Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                      Clear Cell Focus
- Fatty Change                                      Mild
- Hepatocellular Adenoma                      Multiple
- [ Clear Cell Focus    TGLs = 3-12, 5-12, 6-12 ]
- [ Hepatocellular Adenoma    TGLs = 2-12, 4-12, 7-19 ]
- \* Lung                                      Alveolar/Bronchiolar Adenoma
- \* Lymph Node, Mesenteric                      Hemorrhage                                      Minimal
- Mesentery                                      Fat                                      Necrosis                                      Mild
- [ Necrosis    TGLs = 1-6 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland                                      Infiltration Cellular                                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 52

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-52

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 690

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-53

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis

MISSING

- \* Mammary Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Brain Mineral Mild
- \* Epididymis Infiltration Cellular Lymphocyte, Minimal
- \* Eye Cornea Fibrosis Moderate
  - [ Fibrosis TGLs = 3-5 ]
- \* Harderian Gland Adenocarcinoma
  - [ Adenocarcinoma TGLs = 4-5 ]
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Hepatocellular Adenoma
- \* Nose Vomeronas Org Fibrosis Mild
  - Respirat Epith Hyperplasia Mild
- \* Parathyroid GI
  - Note: One parathyroid gland examined.
- \* Preputial Gland Infiltration Cellular Lymphocyte, Mild
  - [ Infiltration Cellular TGLs = 1-16 ]
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 53

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 690

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-53

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGLs 2 & 8 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-54

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis
- \* Aorta
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Gallbladder
- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Brain Mineral Minimal
- Coagulating Gland Cyst
- [ Cyst TGLs = 2-16 ]
- \* Epididymis Infiltration Cellular Lymphocyte, Minimal
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Heart Cardiomyopathy Mild
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild
- Nephropathy Chronicprogr, Minimal
- \* Liver Hepatocellular Adenoma Multiple
- [ Hepatocellular Adenoma TGLs = 3-12, 7-12 ]
- \* Lung Alveolar/Bronchiolar Carcinoma Multiple
- Infiltration Cellular Histiocyte, Mild
- [ Alveolar/Bronchiolar Carcinoma TGLs = 4-19,5-10 ]
- \* Lymph Node, Mesenteric Hemorrhage Mild
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Preputial Gland Duct Dilation Mild
- [ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 54

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-54

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Thymus

Atrophy

Moderate

\* Thyroid GI

Note: One thyroid gland examined.

Tooth

Dysplasia

Marked

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

Animal Note: TGL 6 = NCL

---



**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 55

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-55

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nerve Trigeminal	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Prostate	* Skeletal Muscle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	

**MISSING**

* Gallbladder	* Mammary Gland	* Pituitary Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain	Artery, Meninges	Inflammation	Chronic Active, Mild
		Mineral	Minimal
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
	[ Hepatocellular Adenoma TGLs = 1-12, 3-19, 4-12 ]		
	[ Hepatocellular Carcinoma TGLs = 2-12 ]		
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLs = 5-15 ]		
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Mild
* Spinal Cord	Artery, Meninges	Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 55

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-55

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

**ANIMAL ID:** 56

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-56

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nerve Trigeminal
* Nose	* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Aorta	* Brain Trigeminal Ganglion	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adren Medulla			
Note: One adrenal medulla examined.			
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 4-14 ]			
* Kidney		Lymphoma Malignant	
		Nephropathy	Chronicprogr, Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLs = 2-12,5-19, 6-20 ]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 3-6 ]			
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
Note: One preputial gland examined			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 56

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-56

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Skeletal Muscle

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Extramedullary Hematopoiesis

Mild

[ Extramedullary Hematopoiesis TGLs = 1-12 ]

Hyperplasia

Lymphoid, Mild

[ Hyperplasia TGLs = 1-12 ]

\* Thymus

Note: Thymus is on slide 11.

\* Thyroid GI

Note: One thyroid gland examined.

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-57

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                           |                             |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                    | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                | * Eye                     | * Gallbladder               |
| * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                 | * Seminal Vesicle         | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord              | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular        | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- |                                 |                                                |                                |                       |
|---------------------------------|------------------------------------------------|--------------------------------|-----------------------|
| * Adrenal Cortex                | Subcapsular                                    | Hyperplasia                    | Mild                  |
| * Brain                         |                                                | Mineral                        | Mild                  |
| * Epididymis                    |                                                | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Harderian Gland               |                                                | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Heart                         |                                                | Cardiomyopathy                 | Minimal               |
| * Kidney                        | Interstitial                                   | Infiltration Cellular          | Lymphocyte, Minimal   |
|                                 |                                                | Nephropathy                    | Chronicprogr, Minimal |
| * Liver                         |                                                | Extramedullary Hematopoiesis   | Minimal               |
| * Lung                          |                                                | Alveolar/Bronchiolar Carcinoma |                       |
|                                 | [ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ] |                                |                       |
| * Lymph Node, Mesenteric        |                                                | Infiltration Cellular          | Histiocyte, Moderate  |
| * Parathyroid GI                |                                                |                                |                       |
| Note: One parathyroid examined. |                                                |                                |                       |
| * Preputial Gland               | Duct                                           | Dilation                       | Moderate              |
|                                 | [ Dilation TGLs = 1-16 ]                       |                                |                       |
| * Salivary Glands               |                                                | Infiltration Cellular          | Lymphocyte, Mild      |
| Testis                          | Interstit Cell                                 | Adenoma                        |                       |
|                                 | [ Adenoma TGLs = 2-16A ]                       |                                |                       |
| * Thymus                        |                                                | Atrophy                        | Marked                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 57

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-57

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 3 = NCL.

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 739

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-58

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Lung
- \* Peripheral Nerve, Sciatic
- \* Skin
- Testis
- \* Urinary Bladder

MISSING

- \* Gallbladder
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Minimal
- \* Brain Mineral Minimal
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Intestine Small, Jejunum Lymphoma Malignant TGLs = 3-14 ] Lymphoma Malignant
- \* Kidney Nephropathy Chronicprogr, Mild
- \* Liver Hepatoblastoma Hepatocellular Adenoma Multiple
- [ Hepatocellular Adenoma TGLs = 5-12, 6-12, 7-12 ]
- Lymph Node Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 4-19 ]
- \* Lymph Node, Mesenteric Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 2-15 ]
- \* Parathyroid GI Note: One parathyroid gland examined.
- \* Preputial Gland Infiltration Cellular Lymphocyte, Minimal
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Seminal Vesicle Bilateral Dilation Mild
- \* Spleen Extramedullary Hematopoiesis Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 58

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 739

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-58

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth

Dysplasia

Marked

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Animal Note: TGL 1 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-59

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands           | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     |
| * Thyroid Gland             | * Trachea                   |                          |                            |

OBSERVATIONS

- |                                                          |             |                        |                     |
|----------------------------------------------------------|-------------|------------------------|---------------------|
| * Adrenal Cortex                                         | Subcapsular | Hyperplasia            | Mild                |
| * Brain                                                  |             | Mineral                | Mild                |
| * Epididymis                                             |             | Infiltration Cellular  | Lymphocyte, Minimal |
| * Islets, Pancreatic                                     |             | Hyperplasia            | Mild                |
| * Kidney                                                 |             | Nephropathy            | Chronicprogr, Mild  |
| * Liver                                                  |             | Hepatocellular Adenoma | Multiple            |
| [ Hepatocellular Adenoma TGLs = 1-20, 2-12, 3-19, 4-12 ] |             |                        |                     |
| * Parathyroid GI                                         |             |                        |                     |
| Note: One parathyroid gland examined.                    |             |                        |                     |
| * Seminal Vesicle                                        | Bilateral   | Dilation               | Mild                |
| * Thymus                                                 |             | Atrophy                | Mild                |
| * Thyroid GI                                             |             |                        |                     |
| Note: One thyroid gland examined.                        |             |                        |                     |
| * Urinary Bladder                                        |             | Infiltration Cellular  | Lymphocyte, Mild    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 738

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-60

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Preputial Gland           | * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thymus                 | * Thyroid Gland             |
| * Trachea                   |                             |                          |                             |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                   |                                                    |                                        |                                              |
|-------------------|----------------------------------------------------|----------------------------------------|----------------------------------------------|
| * Adrenal Cortex  | Subcapsular<br>Bilateral                           | Hyperplasia<br>Hypertrophy<br>Mineral  | Minimal<br>Focal, Mild<br>Minimal            |
| * Brain           |                                                    |                                        |                                              |
| * Harderian Gland |                                                    | Infiltration Cellular                  | Lymphocyte, Minimal                          |
| * Kidney          | Interstitial                                       | Infiltration Cellular<br>Nephropathy   | Lymphocyte, Minimal<br>Chronicprogr, Minimal |
| * Liver           |                                                    | Fatty Change<br>Hepatocellular Adenoma | Mild<br>Multiple                             |
|                   | [ Hepatocellular Adenoma TGLs = 2-21, 3-12, 4-12 ] |                                        |                                              |
| * Lung            |                                                    | Alveolar/Bronchiolar Adenoma           |                                              |
|                   | [ Alveolar/Bronchiolar Adenoma TGLs = 5-10 ]       |                                        |                                              |
| Mesentery         | Fat                                                | Lipoma                                 |                                              |
|                   | [ Lipoma TGLs = 1-19 ]                             |                                        |                                              |
| * Salivary Glands |                                                    | Infiltration Cellular                  | Lymphocyte, Minimal                          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 60

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-60

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

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Animal Note: TGL 6 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-61

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Epididymis                | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   | * Thymus                   |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- |                             |                 |
|-----------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Mammary Gland |
|-----------------------------|-----------------|

OBSERVATIONS

- |                   |              |                                        |                       |
|-------------------|--------------|----------------------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia                            | Mild                  |
| * Brain           |              | Mineral                                | Mild                  |
| * Kidney          | Renal Tubule | Cyst                                   |                       |
|                   | Interstitium | Infarct                                | Minimal               |
|                   |              | Infiltration Cellular                  | Lymphocyte, Mild      |
|                   |              | Nephropathy                            | Chronicprogr, Minimal |
| * Liver           |              | Clear Cell Focus                       |                       |
|                   |              | Fatty Change                           | Mild                  |
|                   |              | Hepatocellular Adenoma                 |                       |
|                   |              | [ Clear Cell Focus TGLs = 1-12, 2-12 ] |                       |
|                   |              | [ Hepatocellular Adenoma TGLs = 3-19 ] |                       |
| * Parathyroid GI  |              |                                        |                       |
|                   |              | Note: One parathyroid gland examined.  |                       |
| * Salivary Glands |              | Infiltration Cellular                  | Lymphocyte, Mild      |
| * Seminal Vesicle | Bilateral    | Dilation                               | Mild                  |
| Tooth             |              | Dysplasia                              | Marked                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 62

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-62

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Brain Trigeminal Ganglion	* Mammary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineral	Minimal
* Epididymis		Infiltration Cellular	Lymphocyte, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	
[ Clear Cell Focus TGLs = 2-12, 4-12 ]			
[ Hepatocellular Adenoma TGLs = 3-12 ]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Moderate
Tooth		Dysplasia	Mild

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 64

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-64

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nerve Trigeminal
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Brain	Mineral	Mild
* Harderian Gland	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLs = 1-12 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 3-19 ]	Infiltration Cellular	Histiocyte, Moderate
* Parathyroid GI		
Note: One parathyroid examined.		
* Preputial Gland	Infiltration Cellular	Lymphocyte, Mild
* Thymus	Cyst	

Animal Note: TGL 2 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-65

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                          |
|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                      | * Pancreas               |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle           | * Skin                   |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| Testis                      | * Thymus                    | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder           |                             |                             |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                 |                                                                |                        |                     |
|---------------------------------|----------------------------------------------------------------|------------------------|---------------------|
| * Adrenal Cortex                | Subcapsular                                                    | Hyperplasia            | Mild                |
|                                 |                                                                | Hyperplasia            | Focal, Mild         |
| * Brain                         |                                                                | Mineral                | Mild                |
| * Kidney                        |                                                                | Nephropathy            | Chronicprogr, Mild  |
| * Liver                         |                                                                | Clear Cell Focus       |                     |
|                                 |                                                                | Fatty Change           | Mild                |
|                                 |                                                                | Hepatocellular Adenoma | Multiple            |
|                                 | [ Hepatocellular Adenoma TGLs = 1-12, 2-12, 3-12, 4-12, 5-12 ] |                        |                     |
| * Parathyroid Gland             |                                                                |                        |                     |
| Note: One parathyroid examined. |                                                                |                        |                     |
| * Salivary Glands               |                                                                | Infiltration Cellular  | Lymphocyte, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 66

TRT#: 1

SEX: Male

DAY ON TEST: 738

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-66

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Hyperplasia                                      Focal, Mild
- \* Kidney                                      Renal Tubule                                      Cyst                                      Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                      Hepatocellular Carcinoma                                      Hepatocellular Carcinoma
- [ Hepatocellular Carcinoma    TGLs = 2-12 ]
- \* Lung                                      Alveolar/Bronchiolar Carcinoma                                      Alveolar/Bronchiolar Carcinoma
- [ Alveolar/Bronchiolar Carcinoma    TGLs = 3-19 ]
- \* Lymph Node, Mesenteric                      Infiltration Cellular                                      Histiocyte, Mild
- \* Preputial Gland                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Minimal
- Tooth                                      Dysplasia                                      Minimal
- \* Urinary Bladder                                      Infiltration Cellular                                      Lymphocyte, Minimal

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 67

TRT#: 1

SEX: Male

DAY ON TEST: 658

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-67

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
		Fibroma	
	[ Dilation TGLs = 1-16, 2-16 ]		
* Thymus		Atrophy	Marked
Tooth		Dysplasia	Moderate
* Urinary Bladder		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 3 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 8

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-69

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Bone
- \* Harderian Gland
- \* Heart
- \* Islets, Pancreatic
- \* Eye
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular
- \* Kidney
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Spinal Cord
- \* Urinary Bladder
- \* Trachea

MISSING

- \* Esophagus
- \* Gallbladder
- \* Mammary Gland
- \* Parathyroid Gland
- \* Thymus
- \* Thyroid Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Spleen

OBSERVATIONS

- \* Brain
  - \* Pituitary Gland
- Infiltration Cellular
- Lymphocyte, Mild

Note: Only the pars distalis was available for evaluation.

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 70

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-70

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Brain
  - Mineral Mild
  - Coagulating Gland
    - Cyst
- \* Harderian Gland
  - Infiltration Cellular Lymphocyte, Minimal
- \* Kidney
  - Pelvis
    - Dilation Moderate
    - Nephropathy Chronicprogr, Moderate
- \* Liver
  - [ Cyst TGLs = 1-16 ]
  - [ Dilation TGLs = 2-13 ]
  - [ Nephropathy TGLs = 3-13 ]
  - Eosinophilic Focus
  - Hepatoblastoma
- \* Seminal Vesicle
  - Dilation Moderate
  - [ Dilatation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 71

TRT#: 1

SEX: Male

DAY ON TEST: 738

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-71

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Nerve Trigeminal
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma	TGLs = 3-12 ]		
* Peripheral Nerve, Sciatic	Axon	Degeneration	Minimal
* Pituitary GI			
Note: Pars distalis examined.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Tooth		Inflammation	Suppurative, Moderate

Animal Note: TGLs 1 & 2 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 72

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-72

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Urinary Bladder
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adren Cortex
  - Note: One adrenal cortex examined.
- \* Adren Medulla
  - Note: One adrenal medulla examined.
- \* Brain
  - Mineral
  - Mild
- \* Harderian Gland
  - Infiltration Cellular
  - Lymphocyte, Mild
- \* Kidney
  - Interstitial
  - Infiltration Cellular
  - Lymphocyte, Moderate
  - Nephropathy
  - Chronicprogr, Moderate
- [ Nephropathy TGLs = 3-13 ]
- \* Liver
  - Hepatocellular Carcinoma
  - Inflammation
  - Focal, Minimal
- [ Hepatocellular Carcinoma TGLs = 4-12 ]
- \* Lung
  - Hemorrhage
  - Mild
- \* Parathyroid GI
  - Note: One parathyroid examined.
- \* Preputial Gland
  - Bilateral, Duct
  - Dilation
  - Mild
- [ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 72

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-72

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Extramedullary Hematopoiesis

Mild

[ Extramedullary Hematopoiesis TGLs = 2-12 ]

\* Thymus

Cyst

Note: Thymus is on section 7.

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 73

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-73

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Nerve Trigeminal       | * Nose                     |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Prostate                 |
| * Seminal Vesicle           | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     |
| * Thymus                    | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                     |                                          |                          |                     |
|-------------------------------------|------------------------------------------|--------------------------|---------------------|
| * Adrenal Cortex                    | Subcapsular                              | Hyperplasia              | Minimal             |
| Note: One adrenal cortex examined.  |                                          |                          |                     |
| * Adren Medulla                     |                                          |                          |                     |
| Note: One adrenal medulla examined. |                                          |                          |                     |
| * Brain                             |                                          | Mineral                  | Minimal             |
| * Harderian Gland                   |                                          | Infiltration Cellular    | Lymphocyte, Mild    |
| * Islets, Pancreatic                |                                          | Hyperplasia              | Mild                |
| * Kidney                            |                                          | Nephropathy              | Chronicprogr, Mild  |
| * Liver                             |                                          | Clear Cell Focus         |                     |
|                                     |                                          | Hepatocellular Adenoma   | Multiple            |
|                                     |                                          | Hepatocellular Carcinoma |                     |
|                                     | [ Hepatocellular Adenoma TGLs = 2-12 ]   |                          |                     |
|                                     | [ Hepatocellular Carcinoma TGLs = 3-12 ] |                          |                     |
| * Lung                              |                                          | Hepatocellular Carcinoma | Metastatic (Liver)  |
| * Pancreas                          |                                          | Infiltration Cellular    | Lymphocyte, Minimal |
| * Parathyroid GI                    |                                          |                          |                     |
| Note: One parathyroid examined.     |                                          |                          |                     |
| * Preputial Gland                   | Bilateral, Duct                          | Dilation                 | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 73

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-73

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

Tooth

Dysplasia

Moderate

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 75

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-75

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Salivary Glands
- \* Spinal Cord
- Testis
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex [ Angiectasis TGLs = 1-7 ]
- \* Brain
- \* Islets, Pancreatic
- \* Kidney Interstitium
- \* Liver [ Clear Cell Focus TGLs = 3-19 ] [ Hepatocellular Adenoma TGLs = 2-12 ]
- \* Lung Alveolar Epith
- \* Lymph Node, Mesenteric [ Infiltration Cellular TGLs = 4-15 ]
- \* Parathyroid GI Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic Axon
- \* Preputial Gland
- \* Thymus
- Angiectasis Moderate
- Mineral Mild
- Hyperplasia Minimal
- Infiltration Cellular Lymphocyte, Minimal
- Nephropathy Chronicprogr, Minimal
- Clear Cell Focus
- Hepatocellular Adenoma
- Hyperplasia Focal, Mild
- Infiltration Cellular Histiocyte, Mild
- Degeneration Minimal
- Infiltration Cellular Lymphocyte, Mild
- Cyst

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 75

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-75

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid GI

Note: One thyroid gland examined.

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 76

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-76

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                          |
|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow               | * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular |
| * Nerve Trigeminal          | * Nose                      | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle           | * Skeletal Muscle           | * Skin                      | * Spinal Cord            |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder           |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                    |                       |                       |
|------------------------------------|-----------------------|-----------------------|
| * Brain                            | Mineral               | Mild                  |
| * Epididymis                       | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                           | Nephropathy           | Chronicprogr, Minimal |
| * Liver                            | Fatty Change          | Mild                  |
| * Lymph Node, Mesenteric           | Lymphoma Malignant    |                       |
| [ Lymphoma Malignant TGLs = 1-15 ] |                       |                       |
| * Preputial Gland                  | Infiltration Cellular | Lymphocyte, Minimal   |
| * Thymus                           | Cyst                  |                       |

Animal Note: TGL 2 = NCL



Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 78

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-78

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular    | * Nerve Trigeminal          | * Nose                   | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Prostate                 |
| * Seminal Vesicle           | * Skin                      | * Spinal Cord            | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   | * Thymus                   |
| * Thyroid Gland             | * Trachea                   |                          |                            |

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |                                 |                |                       |                       |
|---------------------------------|----------------|-----------------------|-----------------------|
| * Adrenal Cortex                | Subcapsular    | Hyperplasia           | Minimal               |
| * Brain                         |                | Mineral               | Minimal               |
| * Harderian Gland               |                | Infiltration Cellular | Lymphocyte, Minimal   |
| * Islets, Pancreatic            |                | Hyperplasia           | Moderate              |
| * Kidney                        | Interstitium   | Infiltration Cellular | Lymphocyte, Mild      |
|                                 |                | Nephropathy           | Chronicprogr, Minimal |
| * Liver                         |                | Fatty Change          | Minimal               |
|                                 |                | Infiltration Cellular | Lymphocyte, Mild      |
| * Lung                          | Alveolar Epith | Hyperplasia           | Focal, Minimal        |
|                                 |                | Infiltration Cellular | Histiocyte, Mild      |
| * Lymph Node, Mesenteric        |                | Infiltration Cellular | Plasma Cell, Moderate |
| * Parathyroid GI                |                |                       |                       |
| Note: One parathyroid examined. |                |                       |                       |
| * Preputial Gland               |                | Infiltration Cellular | Lymphocyte, Minimal   |
|                                 |                | Inflammation          | Suppurative, Moderate |
| [ Inflammation TGLs = 1-16 ]    |                |                       |                       |
| * Salivary Glands               |                | Infiltration Cellular | Lymphocyte, Mild      |
| * Skeletal Muscle               |                | Infiltration Cellular | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 78

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-78

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 79

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-79

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Harderian Gland
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                              Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                                              Fatty Change                                              Mild
- Hepatocellular Adenoma                                              Hepatocellular Adenoma                                              Multiple
- [ Hepatocellular Adenoma                      TGLs = 2-12, 3-19, 4-12, 5-12, 6-12 ]
- \* Lung                                              Alveolar Epith                                              Hyperplasia                                              Focal, Mild
- \* Parathyroid GI
- Note: One parathyroid examined.
- \* Preputial Gland                                              Duct                                              Dilation                                              Moderate
- [ Dilation                      TGLs = 1-16 ]                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Salivary Glands                                              Infiltration Cellular                                              Dysplasia                                              Mild
- Tooth

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 79

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-79

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Inflammation

Suppurative, Mild

---

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 80

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-80

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Brain Trigeminal Ganglion
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland                      \* Nerve Trigeminal

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hypercellularity	Mild
* Brain		Mineral	Mild
* Harderian Gland		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma    TGLs = 2-12, 3-12 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Parathyroid GI			
	Note: One parathyroid gland examined.		
* Peripheral Nerve, Sciatic	Axon	Degeneration	Minimal
* Preputial GI			
	Note: One preputial gland examined.		
* Skin		Ulcer	Moderate
	[ Ulcer    TGLs = 1-19 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 80

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-80

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Cyst

\* Thyroid GI

Note: One thyroid gland examined.

Tooth

Dysplasia

Marked

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 81

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-81

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Lung
- \* Nose
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Urinary Bladder

- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone Marrow
- \* Gallbladder
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion

- \* Mammary Gland

- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum

- \* Intestine Small, Duodenum

- \* Intestine Small, Ileum

- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Kidney
- \* Liver

Subcapsular

Interstitial

Hyperplasia  
 Mineral  
 Infiltration Cellular  
 Infiltration Cellular  
 Nephropathy  
 Hemorrhage  
 Hepatocellular Carcinoma

Mild  
 Minimal  
 Lymphocyte, Mild  
 Lymphocyte, Mild  
 Chronicprogr, Minimal  
 Moderate  
 Multiple

[ Hepatocellular Carcinoma TGLs = 3-19, 4-12 ]

- \* Salivary Glands
- \* Seminal Vesicle

Infiltration Cellular  
 Dilation

Lymphocyte, Mild  
 Mild

[ Dilation TGLs = 1-16 ]

- \* Thyroid GI

Note: One thyroid gland examined.

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

**ANIMAL ID:** 82

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-82

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Brain Trigeminal Ganglion	* Mammary Gland	* Nerve Trigeminal
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 2-19 ]		
	[ Hepatocellular Carcinoma TGLs = 3-12 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Peripheral Nerve, Sciatic	Axon	Degeneration	Minimal
* Preputial GI			
Note: One preputial gland examined.			
* Spleen		Extramedullary Hematopoiesis	Mild
	[ Extramedullary Hematopoiesis TGLs = 1-12 ]		

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 83

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-83

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineral	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 3-12 ]		
	[ Hepatocellular Carcinoma TGLs = 4-12 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLs = 5-10 ]		
* Parathyroid GI			
Note: One parathyroid gland examined.			
* Preputial Gland	Duct	Dilation	Moderate
	Duct	Necrosis	Mild
	[ Dilation TGLs = 1-16 ]		
* Spleen		Extramedullary Hematopoiesis	Mild

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 84

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-84

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Bone
- \* Gallbladder
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Minimal
- \* Brain Mineral Minimal
- \* Epididymis Infiltration Cellular Lymphocyte, Minimal
- \* Intestine Small, Ileum Peyers Patch Infiltration Cellular Plasma Cell, Mild  
[ Infiltration Cellular TGLs = 1-15 ]
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Minimal  
Nephropathy Chronicprogr, Minimal
- \* Liver Eosinophilic Focus  
Hepatocellular Adenoma  
Hepatocellular Carcinoma  
Necrosis Minimal  
[ Hepatocellular Carcinoma TGLs = 2-12 ]
- \* Pituitary Gl Note: Pars distalis examined.
- \* Prostate Infiltration Cellular Lymphocyte, Minimal
- \* Salivary Glands Infiltration Cellular Lymphocyte, Minimal
- \* Seminal Vesicle Bilateral Dilatation Mild
- \* Thymus Cyst

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 86

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-86

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilation TGLs = 5-16 ]

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 3-12 ]

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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Animal Note: TGLS 1 & 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 88

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-88

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | * Aorta                   | * Bone                      |
| * Bone Marrow            | * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 |
| * Eye                    | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Seminal Vesicle           | * Skeletal Muscle         | * Skin                      |
| * Spinal Cord            | * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        |
| Testis                   | * Thymus                    | * Thyroid Gland           | * Trachea                   |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                                       |                 |                        |                       |
|---------------------------------------|-----------------|------------------------|-----------------------|
| * Adren Cortex                        |                 |                        |                       |
| Note: One adrenal cortex examined.    |                 |                        |                       |
| * Adren Medulla                       |                 |                        |                       |
| Note: One adrenal medulla examined.   |                 |                        |                       |
| * Brain                               |                 | Mineral                | Minimal               |
| * Kidney                              | Interstitialium | Infiltration Cellular  | Lymphocyte, Mild      |
|                                       |                 | Nephropathy            | Chronicprogr, Minimal |
| * Liver                               |                 | Hepatocellular Adenoma |                       |
|                                       |                 | Mixed Cell Focus       |                       |
| * Parathyroid GI                      |                 |                        |                       |
| Note: One parathyroid gland examined. |                 |                        |                       |
| * Salivary Glands                     |                 | Infiltration Cellular  | Lymphocyte, Mild      |
| * Urinary Bladder                     |                 | Infiltration Cellular  | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 90

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-90

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone                    | * Bone Marrow               |
| * Epididymis             | * Esophagus                 | * Eye                     | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Salivary Glands           | * Skeletal Muscle         | * Skin                      |
| * Spinal Cord            | * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        |
| Testis                   | * Thyroid Gland             | * Trachea                 | * Urinary Bladder           |

MISSING

- |                             |               |                 |                    |
|-----------------------------|---------------|-----------------|--------------------|
| * Brain Trigeminal Ganglion | * Gallbladder | * Mammary Gland | * Nerve Trigeminal |
| * Thymus                    |               |                 |                    |

OBSERVATIONS

- |                                       |             |                       |                       |
|---------------------------------------|-------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular | Hyperplasia           | Minimal               |
| * Brain                               |             | Mineral               | Mild                  |
| * Harderian Gland                     |             | Infiltration Cellular | Lymphocyte, Mild      |
| * Kidney                              |             | Nephropathy           | Chronicprogr, Minimal |
| * Liver                               |             | Clear Cell Focus      |                       |
|                                       |             | Fatty Change          | Minimal               |
| [ Clear Cell Focus TGLs = 2-12 ]      |             |                       |                       |
| * Parathyroid Gland                   |             |                       |                       |
| Note: One parathyroid gland examined. |             |                       |                       |
| * Seminal Vesicle                     | Bilateral   | Dilation              | Moderate              |
| [ Dilation TGLs = 1-16 ]              |             |                       |                       |
| Tooth                                 |             | Dysplasia             | Marked                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 91

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-91

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Moderate
	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
		Nephropathy	Chronicprogr, Mild
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 2-12, 3-12 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 1-6 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 92

TRT#: 1

SEX: Male

DAY ON TEST: 393

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-92

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Kidney
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Gallbladder
- \* Mammary Gland
- \* Stomach, Glandular

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Pancreas

OBSERVATIONS

- \* Heart
  - Inflammation
  - Acute, Mild
  - Myocardium
  - Necrosis
  - Mild
- \* Liver
  - Hepatocellular Adenoma
- [ Hepatocellular Adenoma TGLs = 1-12 ]
- \* Parathyroid GI
  - Note: One parathyroid examined.
- \* Urinary Bladder
  - Hemorrhage
  - Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 93

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-93

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Nerve Trigeminal
* Nose	* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Parathyroid Gland
-----------------	---------------------

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
Note: One adrenal cortex examined.			
* Adren Medulla			
Note: One adrenal medulla examined.			
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma	TGLs = 1-10 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Tooth		Dysplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 94

TRT#: 1

SEX: Male

DAY ON TEST: 420

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-94

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Pancreas
- \* Peripheral Nerve, Sciatic
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland
- \* Parathyroid Gland
- \* Urinary Bladder

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- \* Adren Medulla

Note: One adrenal medulla examined.

- \* Brain

Mineral Mild

- \* Liver

Fatty Change Minimal

Hepatocellular Adenoma

Necrosis Mild

[ Hepatocellular Adenoma TGLs = 1-12 ]

- \* Nose

Respirat Epith

Hyperplasia Mild

- \* Thymus

Atrophy Mild

[ Atrophy TGLs = 2-6 ]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 95

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-95

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Preputial Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Prostate
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                  Mild
- \* Kidney                                      Nephropathy                              Chronicprogr, Mild
- [ Nephropathy    TGLs = 6-13 ]
- \* Liver                                      Clear Cell Focus                              Mild
- Fatty Change                                  Mild
- Hepatoblastoma
- Hepatocellular Adenoma
- [ Clear Cell Focus    TGLs = 3-12 ]
- [ Hepatoblastoma    TGLs = 4-19 ]
- [ Hepatocellular Adenoma    TGLs = 5-12 ]
- \* Peripheral Nerve, Sciatic              Axon                                      Degeneration                              Minimal
- \* Salivary Glands                              Infiltration Cellular                              Lymphocyte, Mild
- \* Seminal Vesicle                              Dilation                                      Marked
- [ Dilation    TGLs = 1-16 ]
- Testis                                      Germ Cell                                      Degeneration                              Minimal
- \* Thymus                                      Cyst

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 96

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-96

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Ileum
- \* Nose
- \* Preputial Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Salivary Glands
- \* Spinal Cord
- \* Testis
- \* Urinary Bladder

MISSING

- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex  
[ Hyperplasia TGLs = 1-7 ] Subcapsular Hyperplasia Moderate
- \* Brain Mineral Minimal
- \* Harderian Gland Adenoma
- \* Kidney Renal Tubule Cyst Nephropathy Chronicprogr, Minimal
- [ Cyst TGLs = 2-13 ]
- \* Liver Eosinophilic Focus Hepatocellular Adenoma
- [ Eosinophilic Focus TGLs = 3-12,4-12 ]
- [ Hepatocellular Adenoma TGLs = 5-19 ]
- \* Lung Alveolar/Bronchiolar Carcinoma Infiltration Cellular Lymphocyte, Mild
- [ Alveolar/Bronchiolar Carcinoma TGLs = 6-10 ]
- \* Parathyroid GI
- Note: One parathyroid gland examined.

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

**ANIMAL ID:** 97

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 711

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-97

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla

\* Eye

\* Intestine Large, Rectum

\* Nose

\* Skeletal Muscle

\* Stomach, Glandular

\* Aorta

\* Gallbladder

\* Intestine Small, Duodenum

\* Parathyroid Gland

\* Skin

Testis

\* Bone

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Peripheral Nerve, Sciatic

\* Spinal Cord

\* Thyroid Gland

\* Esophagus

\* Intestine Large, Colon

\* Nerve Trigeminal

\* Pituitary Gland

\* Stomach, Forestomach

\* Trachea

**MISSING**

\* Brain Trigeminal Ganglion

\* Mammary Gland

\* Thymus

**OBSERVATIONS**

\* Adrenal Cortex

\* Bone Marrow

\* Brain

\* Epididymis

\* Harderian Gland

Subcapsular

Hyperplasia

Minimal

Hypercellularity

Marked

Mineral

Mild

Mast Cell Tumor

Infiltration Cellular

Lymphocyte, Mild

Mast Cell Tumor

Cardiomyopathy

Minimal

Adenocarcinoma

Inflammation

Granulomatous, Mild

Mast Cell Tumor

[ Adenocarcinoma TGLs = 4-14 ]

[ Inflammation TGLs = 4-14 ]

\* Islets, Pancreatic

[ Hyperplasia TGLs = 2-6 ]

Hyperplasia

Marked

\* Kidney

Mast Cell Tumor

\* Liver

Extramedullary Hematopoiesis

Mild

Hepatoblastoma

Hepatocellular Carcinoma

Mast Cell Tumor

[ Hepatoblastoma TGLs = 6-12 ]

[ Hepatocellular Carcinoma TGLs = 5-12, 7-12 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 97

TRT#: 1

SEX: Male

DAY ON TEST: 711

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-97

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Hepatoblastoma	Metastatic (Liver)
		Hepatocellular Carcinoma	Metastatic (Liver)
		Mast Cell Tumor	
Lymph Node	Pancreatic	Mast Cell Tumor	
	Bronchial	Mast Cell Tumor	
	Iliac	Mast Cell Tumor	
	Renal	Mast Cell Tumor	
	[ Mast Cell Tumor	TGLs = 2-6 ]	
	[ Mast Cell Tumor	TGLs = 12-19 ]	
	[ Mast Cell Tumor	TGLs = 11-20 ]	
	[ Mast Cell Tumor	TGLs = 10-21 ]	
* Lymph Node, Mandibular		Mast Cell Tumor	
* Lymph Node, Mesenteric		Mast Cell Tumor	
	[ Mast Cell Tumor	TGLs = 3-15 ]	
* Pancreas		Inflammation	Granulomatous, Moderate
		Mast Cell Tumor	
	[ Inflammation	TGLs = 1-6 ]	
	[ Mast Cell Tumor	TGLs = 2-6 ]	
* Preputial Gland		Mast Cell Tumor	
* Prostate		Mast Cell Tumor	
* Salivary Glands		Mast Cell Tumor	
* Seminal Vesicle	Bilateral	Dilation	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
	[ Extramedullary Hematopoiesis	TGLs = 8-12, 9-12 ]	
Tooth		Dysplasia	Marked
* Urinary Bladder		Mast Cell Tumor	

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 100

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- \* Testis
- \* Urinary Bladder

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Adenoma
- \* Kidney                                      Interstitium                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                      Clear Cell Focus                      Fatty Change                      Mild
- Hepatocellular Adenoma                      Hepatocellular Adenoma                      Multiple
- [ Clear Cell Focus    TGLs = 2-12, 3-12 ]
- [ Hepatocellular Adenoma    TGLs = 4-20 ]
- \* Lymph Node, Mandibular                      Infiltration Cellular                      Histiocyte, Minimal
- \* Parathyroid Gland                      Note: One parathyroid gland examined.
- \* Preputial Gland                      Infiltration Cellular                      Lymphocyte, Mild
- \* Seminal Vesicle                      Bilateral                      Dilation                      Mild
- \* Skin                                      Subcut Tiss                      Lipoma
- [ Lipoma    TGLs = 1-19 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 102

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lung
- \* Parathyroid Gland
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Islets, Pancreatic                      Hyperplasia                                      Mild
- Note: The pancreatic islet lesion is on slide 15.
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                                      Fatty Change                                      Mild
- [ Clear Cell Focus    TGLs = 1-12 ]
- \* Parathyroid GI                                      Note: One parathyroid gland examined.
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Seminal Vesicle                                      Bilateral                                      Dilation                                      Moderate
- Tooth                                              Dysplasia                                      Mild
- \* Urinary Bladder                                      Infiltration Cellular                                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 104

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- Testis

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                                      Hepatocellular Adenoma                      Multiple
- [ Clear Cell Focus    TGLs = 1-12 ]
- [ Hepatocellular Adenoma    TGLs = 2-12, 3-19 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Thymus                                              Cyst

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 211

TRT#: 3

SEX: Male

DAY ON TEST: 738

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nerve Trigeminal
* Nose	* Pancreas	* Peripheral Nerve, Sciatic	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skeletal Muscle	* Skin
* Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland			

OBSERVATIONS

* Brain	Mineral	Mild
* Kidney	Nephropathy	Chronicprogr, Moderate
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLs = 3-12 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
	Hepatocellular Carcinoma	Metastatic (Liver)
[ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ]		
* Lymph Node, Mesenteric	Hemorrhage	Moderate
* Spleen	Extramedullary Hematopoiesis	Moderate
[ Extramedullary Hematopoiesis TGLs = 2-12 ]		
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

Animal Note: TGL 1 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 212

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-212

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid GI

Note: One thyroid gland examined.

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PRIMARY CAUSE OF DEATH - Liver Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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Animal Note: TGLs 1 & 2 = NCL

Animal Note: TGL 3-13=NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 213

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Prostate                  | * Skeletal Muscle        | * Skin                      | * Spinal Cord             |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        | Testis                    |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder           |                           |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                                 |              |                       |                       |
|---------------------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex                | Subcapsular  | Hyperplasia           | Mild                  |
| * Brain                         |              | Mineral               | Minimal               |
| * Epididymis                    |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Harderian Gland               |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                        | Interstitium | Infiltration Cellular | Lymphocyte, Mild      |
|                                 |              | Nephropathy           | Chronicprogr, Minimal |
| * Liver                         |              | Clear Cell Focus      |                       |
|                                 |              | Fatty Change          | Mild                  |
| * Parathyroid Gland             |              |                       |                       |
| Note: One parathyroid examined. |              |                       |                       |
| * Preputial Gland               |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Salivary Glands               |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Seminal Vesicle               | Bilateral    | Dilation              | Mild                  |
| * Thymus                        |              | Cyst                  |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 572

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone Marrow
- \* Epididymis
- \* Esophagus
- \* Bone
- \* Gallbladder
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Eye
- \* Kidney
- Lymph Node
- \* Intestine Large, Rectum
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Prostate
- \* Salivary Glands
- \* Pituitary Gland
- \* Preputial Gland
- \* Skin
- \* Spinal Cord
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Thymus
- \* Thyroid Gland
- \* Spleen
- \* Testis
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Urinary Bladder

OBSERVATIONS

- \* Brain
  - \* Heart
  - Myocardium
  - Myocardium
  - \* Liver
  - [ Hepatocellular Carcinoma TGLs = 2-12 ]
  - \* Lung
  - Mineral
  - Hemorrhage
  - Necrosis
  - Hepatocellular Carcinoma
  - Necrosis
  - Hepatocellular Carcinoma
  - Infiltration Cellular
  - Mild
  - Mild
  - Mild
  - Moderate
  - Metastatic (Liver)
  - Histiocyte, Minimal
- Note: Most of the histiocytes are hemosiderophages.
- \* Thyroid GI
  - Note: One thyroid gland examined.

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGLs 1 & 3 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 216

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Epididymis                | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Nerve Trigeminal          |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord            | * Stomach, Forestomach     | * Stomach, Glandular        |
| Testis                      | * Thyroid Gland          | * Trachea                  |                             |

MISSING

- |                             |                 |
|-----------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Mammary Gland |
|-----------------------------|-----------------|

OBSERVATIONS

- |                                       |                                 |                       |                       |
|---------------------------------------|---------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular                     | Hyperplasia           | Mild                  |
| * Brain                               |                                 | Mineral               | Mild                  |
| * Harderian Gland                     |                                 | Infiltration Cellular | Lymphocyte, Mild      |
| * Kidney                              | Interstitium                    | Infiltration Cellular | Lymphocyte, Mild      |
|                                       |                                 | Nephropathy           | Chronicprogr, Minimal |
| * Liver                               |                                 | Clear Cell Focus      |                       |
| * Parathyroid Gland                   |                                 |                       |                       |
| Note: One parathyroid gland examined. |                                 |                       |                       |
| * Salivary Glands                     |                                 | Infiltration Cellular | Lymphocyte, Mild      |
| * Seminal Vesicle                     | Bilateral                       | Dilation              | Mild                  |
| * Spleen                              |                                 | Hemangiosarcoma       |                       |
|                                       | [ Hemangiosarcoma TGLs = 1-12 ] |                       |                       |
| * Thymus                              |                                 | Cyst                  |                       |
| Tooth                                 |                                 | Dysplasia             | Mild                  |
| * Urinary Bladder                     |                                 | Infiltration Cellular | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 364

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thyroid Gland
* Trachea			

MISSING

* Brain Trigeminal Ganglion	* Mammary Gland	* Parathyroid Gland
-----------------------------	-----------------	---------------------

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Spleen	

OBSERVATIONS

\* Adren Medulla

Note: One adrenal medulla available for evaluation.

\* Brain

\* Liver

Mineral

Fatty Change

Necrosis

Minimal

Marked

Moderate

[ Fatty Change TGLs = 2-12 ]

\* Pituitary Gl

Note: Pars Distalis available for evaluation.

\* Thymus

\* Urinary Bladder

Transit Epithe

Atrophy

Hyperplasia

Infiltration Cellular

Moderate

Multifocal, Mild

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1, 3, 4, 5, & 6 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                       | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                  | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Prostate                  | * Skeletal Muscle           | * Skin                      | * Spinal Cord              |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                     |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder           |                            |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                       |                                                                                  |                                                            |                                           |
|---------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------|
| * Adrenal Cortex                      | Subcapsular<br>Subcapsular                                                       | Adenoma<br>Hyperplasia<br>Hypertrophy                      | Mild<br>Focal, Mild                       |
| * Brain                               |                                                                                  | Mineral                                                    | Minimal                                   |
| * Epididymis                          |                                                                                  | Infiltration Cellular                                      | Lymphocyte, Minimal                       |
| * Kidney                              | Interstitium                                                                     | Infiltration Cellular<br>Nephropathy                       | Lymphocyte, Mild<br>Chronicprogr, Minimal |
| * Liver                               |                                                                                  | Clear Cell Focus<br>Fatty Change<br>Hepatocellular Adenoma | Mild                                      |
|                                       | [ Clear Cell Focus TGLs = 3-12, 4-12 ]<br>[ Hepatocellular Adenoma TGLs = 2-12 ] |                                                            |                                           |
| * Lung                                |                                                                                  | Alveolar/Bronchiolar Adenoma                               |                                           |
| * Lymph Node, Mesenteric              |                                                                                  | Infiltration Cellular                                      | Histiocyte, Mild                          |
| Mesentery                             | Fat                                                                              | Necrosis                                                   | Moderate                                  |
|                                       | [ Necrosis TGLs = 1-6 ]                                                          |                                                            |                                           |
| * Parathyroid GI                      |                                                                                  |                                                            |                                           |
| Note: One parathyroid gland examined. |                                                                                  |                                                            |                                           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 219

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-219

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Mild
* Thymus		Cyst	
Tooth		Dysplasia	Marked

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Animal Note: TGL 5 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spinal Cord
- Testis
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Mammary Gland
- \* Parathyroid Gland
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Adenoma
- \* Kidney                                      Interstitium                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                      Chronicprogr, Mild
- \* Liver                                      Clear Cell Focus
- Fatty Change                      Mild
- Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 3-12, 4-12, 5-19 ]
- \* Lung                                      Alveolar/Bronchiolar Adenoma
- Mesentery                                      Fat                                      Necrosis                                      Moderate
- [ Necrosis    TGLs = 6-20 ]
- \* Preputial Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Moderate
- Tooth                                      Dysplasia                                      Mild
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 220

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-220

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGLs 1 & 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Salivary Glands
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland
- \* Seminal Vesicle

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Ileum
- Testis

OBSERVATIONS

- \* Adren Cortex
  - Note: One adrenal cortex examined
- \* Adren Medulla
  - Note: One adrenal medulla examined.
- \* Brain
  - Mineral Adenoma
  - Mild
- \* Harderian Gland
  - [ Adenoma TGLs = 6-5, 7-5 ]
- \* Heart
  - Bacteria
  - Inflammation
  - Thrombus
  - Chronic Active, Mild
  - Hyperplasia
  - Moderate
- \* Islets, Pancreatic
- \* Kidney
  - Renal Tubule
  - Bacteria
  - Mild
  - Nephropathy
  - Chronicprogr, Moderate
  - Hepatocellular Carcinoma
- \* Liver
  - [ Hepatocellular Carcinoma TGLs = 1-12 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-221

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Parathyroid GI			
Note: One parathyroid gland examined.			
* Preputial Gland	Bilateral, Duct	Dilation	Moderate
	[ Dilation TGLs = 5-16 ]		
* Spleen		Extramedullary Hematopoiesis	Moderate
	[ Extramedullary Hematopoiesis TGLs = 3-12 ]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGLs 2 & 4 = NCL





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Epididymis             | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Nerve Trigeminal       | * Nose                     | * Prostate                |
| * Seminal Vesicle           | * Skeletal Muscle        | * Skin                     | * Spinal Cord             |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | Testis                    |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- |             |               |                 |                     |
|-------------|---------------|-----------------|---------------------|
| * Esophagus | * Gallbladder | * Mammary Gland | * Parathyroid Gland |
|-------------|---------------|-----------------|---------------------|

OBSERVATIONS

- |                                                                  |               |                                                    |                                           |
|------------------------------------------------------------------|---------------|----------------------------------------------------|-------------------------------------------|
| * Adrenal Cortex<br>Note: One adrenal cortex examined.           | Subcapsular   | Hyperplasia                                        | Minimal                                   |
| * Adren Medulla<br>Note: One adrenal medulla examined.           |               |                                                    |                                           |
| * Brain                                                          |               | Mineral                                            | Minimal                                   |
| * Kidney<br>[ Nephropathy TGLs = 2-13 ]                          | Interstitium  | Infiltration Cellular<br>Nephropathy               | Lymphocyte, Minimal<br>Chronicprogr, Mild |
| * Liver<br>[ Hepatocellular Carcinoma TGLs = 3-12 ]              |               | Hepatocellular Adenoma<br>Hepatocellular Carcinoma |                                           |
| * Lung<br>[ Alveolar/Bronchiolar Adenoma TGLs = 4-10 ]           |               | Alveolar/Bronchiolar Adenoma                       |                                           |
| * Lymph Node, Mesenteric<br>Mesentery<br>[ Necrosis TGLs = 1-6 ] | Fat           | Infiltration Cellular<br>Necrosis                  | Histiocyte, Mild<br>Moderate              |
| * Pancreas                                                       | Duct          | Cyst                                               |                                           |
| * Peripheral Nerve, Sciatic                                      | Axon          | Degeneration                                       | Minimal                                   |
| * Pituitary Gland                                                | Pars Distalis | Hyperplasia                                        | Focal, Mild                               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 224

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-224

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Preputial Gland

Duct

Dilation

Moderate

[ Dilation TGLs = 5-16 ]

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 225

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-225

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 5-20 = NCL

---









Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 667

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Intestine Small, Duodenum	* Mammary Gland	* Nerve Trigeminal
* Parathyroid Gland			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum
--------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Fatty Change	Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Moderate
[ Dilation TGLs = 1-16 ]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: TGL 2 = NCL

Animal Note: TGL 3-13 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 232

TRT#: 3

SEX: Male

DAY ON TEST: 629

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                          |
|-----------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                    |
| * Gallbladder               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Nerve Trigeminal       | * Nose                   |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Preputial Gland        |
| * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle        | * Skin                   |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                   |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                 |                     |                              |                     |
|---------------------------------|---------------------|------------------------------|---------------------|
| * Adrenal Cortex                | Subcapsular         | Hyperplasia                  | Mild                |
| * Brain                         |                     | Mineral                      | Mild                |
| * Heart                         |                     | Hepatocholangiocarcinoma     | Metastatic (Liver)  |
| [ Hepatocholangiocarcinoma      | TGLs = 6-11, 7-11 ] |                              |                     |
| * Intestine Small, Jejunum      |                     | Hepatocholangiocarcinoma     | Metastatic (Liver)  |
| [ Hepatocholangiocarcinoma      | TGLs = 4-14 ]       |                              |                     |
| * Kidney                        |                     | Hepatocholangiocarcinoma     | Metastatic (Liver)  |
|                                 | Interstitialium     | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver                         |                     | Hepatocholangiocarcinoma     |                     |
| [ Hepatocholangiocarcinoma      | TGLs = 1-12 ]       |                              |                     |
| * Lung                          |                     | Hepatocholangiocarcinoma     | Metastatic (Liver)  |
| [ Hepatocholangiocarcinoma      | TGLs = 2-10 ]       |                              |                     |
| * Pancreas                      |                     | Hepatocholangiocarcinoma     | Metastatic (Liver)  |
| * Parathyroid GI                |                     |                              |                     |
| Note: One parathyroid examined. |                     |                              |                     |
| * Salivary Glands               |                     | Infiltration Cellular        | Lymphocyte, Minimal |
| * Spleen                        |                     | Extramedullary Hematopoiesis | Mild                |
| * Thymus                        |                     | Hepatocholangiocarcinoma     | Metastatic (Liver)  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 232

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 629

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-232

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hepatocholangiocarcinoma TGLs = 3-6 ]

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**PRIMARY CAUSE OF DEATH** - Liver Hepatocholangiocarcinoma

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Animal Note: TGL 5 = NCL

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Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 235

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-235

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	Testis
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Nerve Trigeminal	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Adenoma	
* Brain		Mineral	Mild
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	
	[ Clear Cell Focus TGLs = 1-12, 3-12 ]		
	[ Hepatocellular Adenoma TGLs = 2-19 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
	[ Dilation TGLs = 4-16 ]		
* Stomach, Glandular		Accumulation, Hyaline Droplet	Mild
Tooth		Dysplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 236

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| Testis                      | * Thymus                  | * Thyroid Gland             | * Trachea                   |
| * Urinary Bladder           |                           |                             |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                        |                          |                              |                       |
|----------------------------------------|--------------------------|------------------------------|-----------------------|
| * Adrenal Cortex                       | Subcapsular<br>Bilateral | Hyperplasia<br>Hypertrophy   | Mild<br>Focal, Mild   |
| [ Hypertrophy TGLs = 3-7 ]             |                          |                              |                       |
| * Brain                                |                          | Mineral                      | Mild                  |
| * Intestine Small, Ileum               | Peyers Patch             | Hyperplasia                  | Lymphoid, Moderate    |
| * Kidney                               |                          | Nephropathy                  | Chronicprogr, Minimal |
| * Liver                                |                          | Clear Cell Focus             |                       |
|                                        |                          | Fatty Change                 | Mild                  |
|                                        |                          | Hepatocellular Adenoma       |                       |
| [ Clear Cell Focus TGLs = 1-12 ]       |                          |                              |                       |
| [ Hepatocellular Adenoma TGLs = 2-12 ] |                          |                              |                       |
| * Lung                                 |                          | Alveolar/Bronchiolar Adenoma |                       |
| * Preputial Gland                      |                          | Infiltration Cellular        | Lymphocyte, Mild      |
| * Salivary Glands                      |                          | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Seminal Vesicle                      | Bilateral                | Dilation                     | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 237

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Seminal Vesicle
- \* Spleen
- \* Thymus

MISSING

- \* Gallbladder
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                      Adenoma
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                              Chronicprogr, Mild
- \* Liver                                              Hepatoblastoma
- Hepatocellular Adenoma                      Multiple
- Hepatocellular Carcinoma
- Necrosis                                      Mild
- [ Hepatocellular Adenoma    TGLs = 2-12, 4-12, 5-20 ]
- [ Hepatocellular Carcinoma    TGLs = 3-20 ]
- [ Necrosis    TGLs = 1-12 ]
- \* Lymph Node, Mesenteric                      Hemorrhage                              Mild
- \* Peripheral Nerve, Sciatic                      Axon                                      Degeneration                              Minimal
- \* Preputial Gland                              Infiltration Cellular                      Lymphocyte, Mild
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Mild

Animal Note: TGLs 6 & 7 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Prostate                  | * Seminal Vesicle         | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland           | * Trachea                   | * Urinary Bladder           |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                                     |                                          |                          |                     |
|-------------------------------------|------------------------------------------|--------------------------|---------------------|
| * Adrenal Cortex                    | Subcapsular                              | Hyperplasia              | Minimal             |
| Note: One adrenal cortex examined.  |                                          |                          |                     |
| * Adren Medulla                     |                                          |                          |                     |
| Note: One adrenal medulla examined. |                                          |                          |                     |
| * Brain                             |                                          | Mineral                  | Minimal             |
| * Kidney                            |                                          | Nephropathy              | Chronicprogr, Mild  |
| * Liver                             |                                          | Hepatocellular Adenoma   |                     |
|                                     |                                          | Hepatocellular Carcinoma |                     |
|                                     | [ Hepatocellular Carcinoma TGLs = 2-12 ] |                          |                     |
| * Lung                              |                                          | Hepatocellular Carcinoma | Metastatic (Liver)  |
| * Lymph Node, Mesenteric            |                                          | Infiltration Cellular    | Histiocyte, Mild    |
| * Preputial Gland                   |                                          | Infiltration Cellular    | Lymphocyte, Minimal |
| * Salivary Glands                   |                                          | Infiltration Cellular    | Lymphocyte, Minimal |
| Testis                              | Germ Cell                                | Degeneration             | Mild                |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 240

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Brain
  - \* Harderian Gland
  - \* Islets, Pancreatic
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Lymph Node, Mesenteric
  - \* Parathyroid GI
  - \* Salivary Glands
  - \* Spleen
  - \* Urinary Bladder
- [ Hepatocellular Carcinoma TGLs = 1-19 ]
- Note: One parathyroid gland examined.

Interstitialium

- Mineral
- Mild
- Infiltration Cellular
- Lymphocyte, Minimal
- Hyperplasia
- Moderate
- Infiltration Cellular
- Lymphocyte, Mild
- Nephropathy
- Chronicprogr, Minimal
- Hepatocellular Adenoma
- Multiple
- Hepatocellular Carcinoma
- Hepatocellular Carcinoma
- Metastatic (Liver)
- Erythrophagocytosis
- Mild
- Infiltration Cellular
- Mixed Cell, Mild
- Infiltration Cellular
- Lymphocyte, Mild
- Extramedullary Hematopoiesis
- Moderate
- Infiltration Cellular
- Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 243

TRT#: 3

SEX: Male

DAY ON TEST: 738

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-243

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Pars distalis examined.

\* Salivary Glands

\* Seminal Vesicle

[ Dilation TGLs = 1-16 ]

\* Skin

[ Liposarcoma TGLs = 5-20 ]

[ Ulcer TGLs = 4-20 ]

Tooth

\* Urinary Bladder

Bilateral

Subcut Tiss

Infiltration Cellular

Dilation

Liposarcoma

Ulcer

Dysplasia

Infiltration Cellular

Lymphocyte, Mild

Mild

Marked

Moderate

Lymphocyte, Minimal

Animal Note: TGL 2 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 244

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                              Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                              Chronicprogr, Minimal
- \* Liver                                              Fatty Change                              Mild
- Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 1-12 ]
- \* Lung                                              Hemorrhage                              Mild
- \* Lymph Node, Mesenteric                      Erythrophagocytosis                      Mild
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 246

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Heart
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Eye
- \* Intestine Large, Cecum
- \* Kidney
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Gallbladder
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Nerve Trigeminal
- \* Preputial Gland
- \* Skin
- Testis

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland
- \* Pituitary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Minimal
- \* Brain Mineral Mild
- \* Epididymis Hepatocholangiocarcinoma Metastatic (Liver)
- \* Liver Hepatocholangiocarcinoma TGLs = 2-12 ] Hepatocholangiocarcinoma
- \* Lung [ Hepatocholangiocarcinoma TGLs = 4-10 ] Hepatocholangiocarcinoma Metastatic (Liver)
- \* Lymph Node, Mesenteric Hepatocholangiocarcinoma Metastatic (Liver)
- Mesentery Hepatocholangiocarcinoma Metastatic (Liver)
- Fat Necrosis Moderate
- [ Hepatocholangiocarcinoma TGLs = 6-6, 6-20 ]
- [ Necrosis TGLs = 3-6 ]
- \* Pancreas Hepatocholangiocarcinoma Metastatic (Liver)
- [ Hepatocholangiocarcinoma TGLs = 3-6 ]
- \* Parathyroid GI
- Note: One parathyroid examined

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 246

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 618

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-246

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Skeletal Muscle

Hepatocholangiocarcinoma

Metastatic (Liver)

[ Hepatocholangiocarcinoma TGLs = 5-12, 5-19 ]

\* Spleen

Extramedullary Hematopoiesis

Mild

\* Thymus

Hepatocholangiocarcinoma

Metastatic (Liver)

---

PRIMARY CAUSE OF DEATH

- Liver Hepatocholangiocarcinoma

---

Animal Note: TGL 1 = NST

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 247

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-247

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                          |                             |                             |                             |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone                      | * Bone Marrow               |
| * Brain                  | * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 |
| * Eye                    | * Gallbladder               | * Harderian Gland           | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                      |
| * Pancreas               | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland           |
| * Seminal Vesicle        | * Skeletal Muscle           | * Skin                      | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                      |
| * Thymus                 | * Thyroid Gland             | * Trachea                   |                             |

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |                   |                                        |                        |                       |
|-------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                            | Hyperplasia            | Mild                  |
| * Kidney          | Interstitium                           | Infiltration Cellular  | Lymphocyte, Minimal   |
|                   |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver           |                                        | Clear Cell Focus       |                       |
|                   |                                        | Fatty Change           | Mild                  |
|                   |                                        | Hepatocellular Adenoma |                       |
|                   | [ Clear Cell Focus TGLs = 1-12 ]       |                        |                       |
|                   | [ Hepatocellular Adenoma TGLs = 2-19 ] |                        |                       |
| * Preputial Gland |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Prostate        |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Salivary Glands |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Urinary Bladder |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 248

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Epididymis             | * Esophagus                 | * Eye                     |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      |
| Testis                      | * Thyroid Gland          | * Trachea                   | * Urinary Bladder         |

MISSING

- |               |                 |                    |          |
|---------------|-----------------|--------------------|----------|
| * Gallbladder | * Mammary Gland | * Nerve Trigeminal | * Thymus |
|---------------|-----------------|--------------------|----------|

OBSERVATIONS

- |                   |                                                    |                        |                       |
|-------------------|----------------------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                                        | Hyperplasia            | Mild                  |
| * Brain           |                                                    | Mineral                | Mild                  |
| * Harderian Gland |                                                    | Infiltration Cellular  | Lymphocyte, Mild      |
| * Kidney          | Interstitium                                       | Infiltration Cellular  | Lymphocyte, Mild      |
|                   |                                                    | Nephropathy            | Chronicprogr, Minimal |
| * Liver           |                                                    | Hepatocellular Adenoma | Multiple              |
|                   | [ Hepatocellular Adenoma TGLs = 1-19, 2-12, 3-12 ] |                        |                       |
| * Preputial Gland |                                                    | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Salivary Glands |                                                    | Infiltration Cellular  | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 249

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Kidney
- \* Lung
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Peripheral Nerve, Sciatic
- \* Preputial Gland
- \* Prostate
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- \* Brain Mineral Mild
- \* Heart Myocardium Necrosis Mild
- [ Necrosis TGLs = 4-11 ]
- \* Islets, Pancreatic Hyperplasia Moderate
- [ Hyperplasia TGLs = NCL ]
- \* Liver Fatty Change Mild
- \* Salivary Glands Infiltration Cellular Lymphocyte, Minimal
- \* Seminal Vesicle Bilateral Dilation Marked
- [ Dilation TGLs = 2-16 ]
- \* Thymus Atrophy Marked
- \* Thyroid GI
- Note: One thyroid gland examined.
- \* Urinary Bladder Inflammation Acute, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 249

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 617

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-249

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Inflammation TGLs = NCL ]

---

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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Animal Note: TGLs 1, 3, & 5 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 250

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | * Aorta                   | * Bone                      |
| * Bone Marrow            | * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 |
| * Eye                    | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland             | * Nerve Trigeminal        | * Nose                      |
| * Pancreas               | * Parathyroid Gland         | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Seminal Vesicle           | * Skeletal Muscle         | * Skin                      |
| * Spinal Cord            | * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        |
| Testis                   | * Thyroid Gland             | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                             |                                                                              |                                                                  |                                           |
|-----------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------|
| * Brain                     |                                                                              | Mineral                                                          | Minimal                                   |
| * Kidney                    | Interstitialium                                                              | Infiltration Cellular<br>Nephropathy                             | Lymphocyte, Mild<br>Chronicprogr, Minimal |
| * Liver                     |                                                                              | Clear Cell Focus<br>Eosinophilic Focus<br>Hepatocellular Adenoma |                                           |
|                             | [ Eosinophilic Focus TGLs = 3-19 ]<br>[ Hepatocellular Adenoma TGLs = 4-12 ] |                                                                  |                                           |
| * Lung                      |                                                                              | Alveolar/Bronchiolar Carcinoma                                   |                                           |
|                             | [ Alveolar/Bronchiolar Carcinoma TGLs = 5-10 ]                               |                                                                  |                                           |
| Mesentery                   | Fat                                                                          | Hemorrhage                                                       | Moderate                                  |
|                             | [ Hemorrhage TGLs = 2-21 ]                                                   |                                                                  |                                           |
| * Peripheral Nerve, Sciatic | Axon                                                                         | Degeneration                                                     | Minimal                                   |
| * Salivary Glands           |                                                                              | Infiltration Cellular                                            | Lymphocyte, Mild                          |
| * Thymus                    |                                                                              | Cyst                                                             |                                           |
| Tooth                       |                                                                              | Dysplasia                                                        | Mild                                      |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 251

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-251

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 252

TRT#: 3

SEX: Male

DAY ON TEST: 640

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Salivary Glands
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Prostate

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- Coagulat GI  
    Note: The coagulating gland duct is dilated, but there is no diagnosis for "dilatation". TGL 2-19
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                              Basophilic Focus                                      Hepatocellular Carcinoma
- [ Hepatocellular Carcinoma    TGLs = 1-12 ]
- \* Lung                                              Alveolar/Bronchiolar Carcinoma                                      Hepatocellular Carcinoma                      Metastatic (Liver)
- [ Hepatocellular Carcinoma    TGLs = 3-10 ]
- \* Thymus                                              Atrophy                                              Moderate
- \* Thyroid GI

Note: One thyroid gland examined.

PRIMARY CAUSE OF DEATH                      - Liver    Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE









**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 255

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-255

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Seminal Vesicle

Bilateral

Dilation

Moderate

\* Thymus

Cyst

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 257

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-257

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Moderate

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 259

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Preputial Gland
- \* Skin
- Testis
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Prostate
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Brain Hemorrhage Mild
- Mineral Minimal
- Coagulating Gland Bilateral Inflammation Chronic Active, Moderate
- [ Inflammation TGLs = 4-16 ]
- \* Epididymis Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Minimal
- \* Liver Clear Cell Focus Multiple
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- [ Hepatocellular Adenoma TGLs = 2-12, 3-19 ]
- [ Hepatocellular Carcinoma TGLs = 1-12 ]
- \* Lung Alveolar/Bronchiolar Carcinoma
- [ Alveolar/Bronchiolar Carcinoma TGLs = 5-10 ]
- \* Lymph Node, Mesenteric Hemorrhage Minimal
- \* Parathyroid GI

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

**ANIMAL ID:** 259

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 723

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-259

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: One parathyroid gland examined.

* Salivary Glands	Infiltration Cellular	Lymphocyte, Minimal
* Spinal Cord	Hemorrhage	Minimal
* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 6 = NCL

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 260

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 651

**DOSE:** 2.5 W/kg

**DISP:** Accidentally Killed

**HISTO:** 12-5117-260

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Brain Trigeminal Ganglion	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Lymph Node, Mandibular	* Nerve Trigeminal	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mesenteric	* Mammary Gland
--------------------------	-----------------

**INSUFFICIENT TISSUE**

* Bone	* Bone Marrow
--------	---------------

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adren Medulla			
Note: One adrenal medulla examined.			
* Brain		Mineral	Mild
* Harderian Gland		Adenocarcinoma	
[ Adenocarcinoma TGLs = 2-5 ]			
* Islets, Pancreatic		Hyperplasia	Mild
* Liver		Fatty Change	Moderate
[ Fatty Change TGLs = 7-12 ]			
[ Hepatocellular Adenoma TGLs = 6-12 ]			
* Parathyroid Gland			
Note: One parathyroid gland examined.			
* Peripheral Nerve, Sciatic	Axon	Degeneration	Minimal
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 260

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 651

**DOSE:** 2.5 W/kg

**DISP:** Accidentally Killed

**HISTO:** 12-5117-260

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Seminal Vesicle

Bilateral

Dilation

Mild

[ Dilation TGLs = 3-16 ]

---

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

---

Animal Note: TGLs 1, 4, & 5 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 261

TRT#: 3

SEX: Male

DAY ON TEST: 609

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Aorta
- \* Eye
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Heart
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Spinal Cord
- \* Trachea

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum

OBSERVATIONS

- \* Adrenal Cortex  
Note: One adrenal examined. Lymphoma Malignant
- \* Adren Medulla  
Note: One adrenal examined.
- \* Bone Marrow Lymphoma Malignant
- \* Brain Mineral Mild
- \* Epididymis Lymphoma Malignant
- \* Harderian Gland Lymphoma Malignant
- \* Intestine Small, Jejunum Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 8-14 ]
- \* Kidney Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 1-13, 2-13 ]
- \* Liver Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 9-12,10-12,11-19,12-20,14-20 ]
- \* Lung Lymphoma Malignant
- Lymph Node Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 6-21, 7-22 ]
- \* Lymph Node, Mesenteric Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 5-15 ]
- \* Pancreas Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 261

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 609

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-261

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Prostate	Lymphoma Malignant
* Seminal Vesicle	Lymphoma Malignant
* Spleen	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 3-12, 4-12 ]	
Testis	Lymphoma Malignant
* Thymus	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 16-6 ]	
* Urinary Bladder	Lymphoma Malignant

---

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

---

Animal Note: TGL 13 = NST; TGL 15 = NCL

---

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 262

TRT#: 3

SEX: Male

DAY ON TEST: 523

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-262

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                           |                          |                             |                          |
|---------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla        | * Aorta                     | * Bone                   |
| * Bone Marrow             | * Brain                  | * Epididymis                | * Esophagus              |
| * Eye                     | * Heart                  | * Intestine Large, Cecum    | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Islets, Pancreatic        | * Liver                  |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric | * Nerve Trigeminal          | * Nose                   |
| * Pancreas                | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Preputial Gland         | * Prostate               | * Salivary Glands           | * Seminal Vesicle        |
| * Skeletal Muscle         | * Spinal Cord            | * Stomach, Forestomach      | * Stomach, Glandular     |
| Testis                    | * Thymus                 | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder         |                          |                             |                          |

**MISSING**

- |                             |                             |                 |
|-----------------------------|-----------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Intestine Small, Duodenum | * Mammary Gland |
|-----------------------------|-----------------------------|-----------------|

**AUTO PRECLUDES DIAG.**

- |               |                            |
|---------------|----------------------------|
| * Gallbladder | * Intestine Small, Jejunum |
|---------------|----------------------------|

**OBSERVATIONS**

- |                                              |                |                              |                     |
|----------------------------------------------|----------------|------------------------------|---------------------|
| * Adren Medulla                              |                |                              |                     |
| Note: One adrenal medulla examined.          |                |                              |                     |
| * Harderian Gland                            |                | Infiltration Cellular        | Lymphocyte, Mild    |
| * Kidney                                     |                | Infiltration Cellular        | Histiocyte, Minimal |
| * Lung                                       | Alveolar Epith | Hyperplasia                  | Focal, Mild         |
|                                              |                | Sarcoma                      | Metastatic (Skin)   |
|                                              |                | Sarcoma                      | Metastatic (Skin)   |
| Lymph Node                                   |                |                              |                     |
| [ Sarcoma TGLs = 1-19 ]                      |                |                              |                     |
| * Skin                                       | Subcut Tiss    | Sarcoma                      |                     |
| [ Sarcoma TGLs = 3-20 ]                      |                |                              |                     |
| * Spleen                                     |                | Extramedullary Hematopoiesis | Minimal             |
|                                              |                | Hyperplasia                  | Lymphoid, Mild      |
| [ Extramedullary Hematopoiesis TGLs = 2-12 ] |                |                              |                     |
| [ Hyperplasia TGLs = 2-12 ]                  |                |                              |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 262

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 523

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-262

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Lung Sarcoma Skin

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Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 263

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-263

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Nerve Trigeminal
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Intestine Small, Duodenum		Adenocarcinoma	
[ Adenocarcinoma TGLs = 6-14 ]			
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLs = 1-12, 2-12, 3-12, 4-19, 5-20 ]			
* Parathyroid Gland			
Note: One parathyroid gland examined.			
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Thymus		Cyst	

Animal Note: TGL 7 = NCL



Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 264

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	
		Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLs = 3-12 ]		
	[ Mixed Cell Focus TGLs = 2-20 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Thymus		Cyst	
Tooth		Dysplasia	Mild

Animal Note: TGLs 1, 4, 5, 6, 7, & 8 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 265

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Nose
- \* Pituitary Gland
- \* Skin
- Testis
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Adrenal Medulla
- \* Nerve Trigeminal
- \* Gallbladder
- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Minimal
- \* Epididymis                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Heart                                              Cardiomyopathy                      Mild
- Artery                                      Inflammation                      Chronic Active, Mild
- \* Islets, Pancreatic                              Hyperplasia                              Mild
- \* Kidney                                              Renal Tubule                              Cyst                                      Lymphocyte, Mild
- Interstitium                              Infiltration Cellular                      Chronicprogr, Minimal
- Nephropathy                              Hepatocellular Adenoma                      Multiple
- \* Liver                                              [ Hepatocellular Adenoma    TGLs = 4-12, 7-12, 8-12 ]
- \* Lung                                              [ Alveolar/Bronchiolar Carcinoma    TGLs = 6-10 ]
- Alveolar/Bronchiolar Carcinoma
- Lymph Node                              Mediastinal                              Infiltration Cellular                      Plasma Cell, Mild
- [ Infiltration Cellular    TGLs = 5-19 ]
- \* Lymph Node, Mesenteric                      Hemorrhage                              Mild
- Mesentery                              Artery                                      Inflammation                      Chronic Active, Mild
- \* Parathyroid GI

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 265

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-265

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: One parathyroid gland examined.

* Preputial Gland	Duct	Dilation Infiltration Cellular	Moderate Lymphocyte, Mild
	[ Dilation TGLs = 1-16 ]		
* Seminal Vesicle	Bilateral	Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 2-16, 3-16 ]		
* Spinal Cord		Necrosis	Mild
* Thymus		Cyst	

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 266

TRT#: 3

SEX: Male

DAY ON TEST: 650

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Epididymis
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Skeletal Muscle
- Testis
- \* Bone Marrow
- \* Eye
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Large, Cecum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Hemorrhage                      Minimal
- Inflammation                      Acute, Minimal
- Mineral                              Mild
- \* Heart                                      Bacteria                              Chronic Active, Mild
- Inflammation                      Moderate
- Thrombus
- \* Kidney                                      Bilateral                              Bacteria
- Bilateral                              Inflammation                      Acute, Mild
- \* Liver                                      Hepatocellular Carcinoma                      Necrosis                      Mild
- [ Hepatocellular Carcinoma    TGLs = 15-20 ]
- Lymph Node                              Lymphoma Malignant
- [ Lymphoma Malignant    TGLs = 7-22, 8-23, 9-24, 10-25, 11-26, 12-26, 16-27 ]
- \* Lymph Node, Mesenteric                      Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 266

TRT#: 3

SEX: Male

DAY ON TEST: 650

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-266

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant TGLs = 14-19 ]

\* Pancreas

Lymphoma Malignant

\* Parathyroid Gland

Note: One parathyroid gland examined.

\* Pituitary Gland

Note: Pars distalis examined.

\* Skin

Ulcer

Marked

[ Ulcer TGLs = 1-21 ]

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 2-12, 3-12 ]

\* Thymus

Atrophy

Marked

[ Atrophy TGLs = 4-6 ]

Hemorrhage

Mild

[ Hemorrhage TGLs = 5-6 ]

PRIMARY CAUSE OF DEATH - Heart Thrombus

Animal Note: TGL 6 = NCL; TGL 13 = NST

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 271

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Pancreas
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Salivary Glands
- \* Spinal Cord
- \* Testis
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Brain Mineral Mild
- Coagulating Gland Cyst
- \* Islets, Pancreatic Hyperplasia Mild
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Fatty Change Moderate
- Hepatocellular Adenoma Multiple
- Hepatocellular Carcinoma
- [ Fatty Change TGLs = 4-12 ]
- [ Hepatocellular Adenoma TGLs = 2-12, 3-12 ]
- [ Hepatocellular Carcinoma TGLs = 1-19 ]
- \* Lung Alveolar/Bronchiolar Carcinoma
- [ Alveolar/Bronchiolar Carcinoma TGLs = 5-10 ]
- \* Preputial Gland Infiltration Cellular Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 273

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-273

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Prostate	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Brain Trigeminal Ganglion	* Lymph Node, Mandibular	* Mammary Gland	* Nerve Trigeminal
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular Bilateral	Hyperplasia Hypertrophy Mineral	Minimal Focal, Mild Minimal
* Brain			
* Kidney	Interstitium	Infiltration Cellular Nephropathy	Lymphocyte, Mild Chronicprogr, Minimal
* Liver		Clear Cell Focus Hepatocellular Adenoma	
	[ Clear Cell Focus TGLs = 2-12 ]		
	[ Hepatocellular Adenoma TGLs = 3-12 ]		
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
	[ Dilation TGLs = 1-16 ]		

Animal Note: TGL 4 = NCL



Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 274

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Stomach, Forestomach	Testis	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Renal Tubule	Adenoma	
		Infarct	Minimal
		Nephropathy	Chronicprogr, Minimal
[ Adenoma TGLs = 1-19 ]			
* Liver		Clear Cell Focus	
		Fatty Change	Mild
[ Hepatocellular Adenoma TGLs = 2-21, 3-12, 4-12, 5-20, 6-12, 7-12, 8-12 ]		Hepatocellular Adenoma	Multiple
* Spleen		Hemangiosarcoma	
* Stomach, Glandular		Accumulation, Hyaline Droplet	Mild
* Thymus		Cyst	

Animal Note: TGL 9 = NCL

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 275

TRT#: 3

SEX: Male

DAY ON TEST: 547

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Nerve Trigeminal
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Interstitialium	Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 2-19 ]		
* Parathyroid Gland			
	Note: One parathyroid gland examined.		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 1 = NST

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 276

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- \* Testis
- \* Urinary Bladder

MISSING

- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                              Mineral                                      Mild
- \* Harderian Gland                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                              Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                                                                      Clear Cell Focus                                      Fatty Change                                      Mild
- [ Clear Cell Focus    TGLs = 2-12 ]
- \* Lung                                                                                      Hemorrhage                                      Mild
- \* Pancreas                                                                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Parathyroid GI                                                                                      Note: One parathyroid gland examined.
- \* Salivary Glands                                                                                      Infiltration Cellular                                      Lymphocyte, Minimal

Animal Note: TGLs 1 & 3 = NCL

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 277

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 533

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-277

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Kidney	* Lymph Node, Mandibular
* Nerve Trigeminal	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Intestine Small, Ileum	* Lymph Node, Mesenteric	* Mammary Gland
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**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Liver		Fatty Change	Mild
		Hepatocellular Adenoma	
		Hepatocholangiocarcinoma	
	[ Fatty Change TGLs = 6-12, 6-19, 6-20 ]		
	[ Hepatocellular Adenoma TGLs = 7-19 ]		
	[ Hepatocholangiocarcinoma TGLs = 5-12 ]		
* Lung		Hemorrhage	Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
	[ Dilation TGLs = 4-16 ]		

**PRIMARY CAUSE OF DEATH** - Liver Hepatocholangiocarcinoma

**CONTRIBUTORY CAUSE OF DEATH** - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 277

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 533

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-277

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGLs 1, 2, & 3 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 278

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Nose                     |
| * Pancreas                  | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Prostate                  | * Salivary Glands           | * Skeletal Muscle           | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                      | * Thyroid Gland             | * Trachea                   | * Urinary Bladder          |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                                       |                                                    |                                                           |                                    |
|---------------------------------------|----------------------------------------------------|-----------------------------------------------------------|------------------------------------|
| * Adrenal Cortex                      | Subcapsular                                        | Hyperplasia<br>Hypertrophy<br>Mineral                     | Mild<br>Focal, Mild<br>Mild        |
| * Brain                               |                                                    | Adenoma                                                   |                                    |
| * Harderian Gland                     |                                                    | Infiltration Cellular                                     | Lymphocyte, Minimal                |
| * Kidney                              | Interstitium                                       | Nephropathy<br>Clear Cell Focus<br>Hepatocellular Adenoma | Chronicprogr, Mild<br><br>Multiple |
| * Liver                               | [ Hepatocellular Adenoma TGLs = 2-12, 3-12, 4-12 ] |                                                           |                                    |
| * Lung                                |                                                    | Hemorrhage                                                | Minimal                            |
| * Parathyroid Gland                   |                                                    |                                                           |                                    |
| Note: One parathyroid gland examined. |                                                    |                                                           |                                    |
| * Preputial Gland                     |                                                    | Infiltration Cellular                                     | Lymphocyte, Minimal                |
| * Seminal Vesicle                     | Bilateral                                          | Dilation                                                  | Moderate                           |
|                                       | [ Dilation TGLs = 1-16 ]                           |                                                           |                                    |
| * Thymus                              |                                                    | Cyst                                                      |                                    |
| Tooth                                 |                                                    | Dysplasia                                                 | Mild                               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 279

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- \* Thymus

MISSING

- \* Intestine Small, Duodenum
- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                              Mineral                                              Mild
- \* Islets, Pancreatic                              Hyperplasia                                      Mild
- \* Kidney                                              Nephropathy                                      Chronicprogr, Mild
- \* Liver                                              Hepatocellular Adenoma
- Hepatocellular Carcinoma
- [ Hepatocellular Adenoma    TGLs = 6-12 ]
- [ Hepatocellular Carcinoma    TGLs = 4-12, 5-19 ]
- \* Lung                                              Hepatocellular Carcinoma                      Metastatic (Liver)
- [ Hepatocellular Carcinoma    TGLs = 3-10 ]
- Lymph Node                                      Iliac                                              Hemorrhage                                      Mild
- [ Hemorrhage    TGLs = 2-21 ]
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Preputial Gland                              Bilateral, Duct                              Dilatation                                      Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 279

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-279

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Spleen

Extramedullary Hematopoiesis

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

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Animal Note: TGL 1 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 281

TRT#: 3

SEX: Male

DAY ON TEST: 738

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Preputial Gland
- \* Skin
- Testis

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Harderian Gland Infiltration Cellular Lymphocyte, Mild
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Minimal
- \* Liver Nephropathy Chronicprogr, Mild
- Clear Cell Focus
- Cyst
- Hepatocellular Adenoma Multiple
- Hepatocellular Carcinoma
- [ Hepatocellular Adenoma TGLs = 1-12, 2-19, 3-12 ]
- [ Hepatocellular Carcinoma TGLs = 4-20 ]
- \* Lung Alveolar/Bronchiolar Carcinoma
- [ Alveolar/Bronchiolar Carcinoma TGLs = 6-10 ]
- \* Lymph Node, Mesenteric Hemorrhage Mild
- [ Hemorrhage TGLs = 5-15 ]
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Spleen Extramedullary Hematopoiesis Mild

Animal Note: TGL 7 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 283

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lung
- \* Lymph Node, Mesenteric
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Brain
- Mineral
- Minimal
- \* Islets, Pancreatic
- Hyperplasia
- Mild
- \* Kidney
- Interstitialium
- Infiltration Cellular
- Lymphocyte, Mild
- Nephropathy
- Chronicprogr, Minimal
- \* Liver
- Fatty Change
- Mild
- Hepatocellular Adenoma
- Multiple
- [ Hepatocellular Adenoma TGLs = 2-12, 3-12, 4-12 ]
- \* Preputial Gland
- Infiltration Cellular
- Lymphocyte, Mild
- \* Salivary Glands
- Infiltration Cellular
- Lymphocyte, Mild
- \* Seminal Vesicle
- Bilateral
- Dilation
- Moderate
- [ Dilation TGLs = 1-16 ]
- Tooth
- Dysplasia
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 284

TRT#: 3

SEX: Male

DAY ON TEST: 738

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nose                     |
| * Pancreas                  | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands           | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- |                 |                    |                     |
|-----------------|--------------------|---------------------|
| * Mammary Gland | * Nerve Trigeminal | * Parathyroid Gland |
|-----------------|--------------------|---------------------|

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- |                             |                                        |                        |                       |
|-----------------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex            | Subcapsular                            | Hyperplasia            | Mild                  |
| * Brain                     |                                        | Mineral                | Mild                  |
| * Harderian Gland           |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Kidney                    | Interstitial                           | Infiltration Cellular  | Lymphocyte, Mild      |
|                             |                                        | Infiltration Cellular  | Mixed Cell, Minimal   |
|                             |                                        | Metaplasia             | Osseous               |
|                             |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver                     |                                        | Clear Cell Focus       |                       |
|                             |                                        | Hepatoblastoma         |                       |
|                             |                                        | Hepatocellular Adenoma | Multiple              |
|                             | [ Hepatoblastoma TGLs = 3-12 ]         |                        |                       |
|                             | [ Hepatocellular Adenoma TGLs = 2-12 ] |                        |                       |
| * Lung                      |                                        | Hepatoblastoma         | Metastatic (Liver)    |
|                             | Alveolar Epith                         | Hyperplasia            | Focal, Mild           |
| * Peripheral Nerve, Sciatic | Axon                                   | Degeneration           | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 284

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-284

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Seminal Vesicle

Dilation

Mild

Inflammation

Chronic Active, Moderate

[ Dilation TGLs = 1-16 ]

Tooth

Dysplasia

Moderate

[ Dysplasia TGLs = 4-18 ]

---

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 285

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Nerve Trigeminal
* Nose	* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Brain		Mineral	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
	[ Nephropathy TGLs = 3-13 ]	Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	[ Clear Cell Focus TGLs = 7-12, 6-19 ]	Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 4-12, 5-12 ]		
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Iliac	Infiltration Cellular	Histiocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Moderate
	[ Dilation TGLs = 1-16 ]		
* Thyroid Gland			
Note: One thyroid gland examined.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 285

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-285

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

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Animal Note: TGLs 2 & 8 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 286

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Preputial Gland
- \* Spinal Cord
- Testis

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Minimal
- \* Aorta Hepatocholangiocarcinoma Metastatic (Liver)
- \* Bone Hepatocholangiocarcinoma TGLs = 3-3 ] Hepatocholangiocarcinoma Metastatic (Liver)
- \* Brain Mineral Mild
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Heart Hepatocholangiocarcinoma Metastatic (Liver)
- \* Kidney Renal Tubule Cyst Hepatocholangiocarcinoma Metastatic (Liver)
- \* Liver [ Hepatocholangiocarcinoma TGLs = 6-20 ] Hepatocellular Adenoma Hepatocholangiocarcinoma
- [ Hepatocellular Adenoma TGLs = 8-12 ]
- [ Hepatocholangiocarcinoma TGLs = 7-19 ]
- \* Lung Hepatocholangiocarcinoma Metastatic (Liver)
- [ Hepatocholangiocarcinoma TGLs = 5-10 ]
- Mesentery Fat Hepatocholangiocarcinoma Metastatic (Liver)
- [ Hepatocholangiocarcinoma TGLs = 10-22 ]
- \* Parathyroid Gland Cyst

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 286

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 656

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-286

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Skeletal Muscle

Hepatocholangiocarcinoma

Metastatic (Liver)

[ Hepatocholangiocarcinoma TGLs = 11-23 ]

\* Thymus

Hepatocholangiocarcinoma

Metastatic (Liver)

[ Hepatocholangiocarcinoma TGLs = 2-6 ]

---

PRIMARY CAUSE OF DEATH - Liver Hepatocholangiocarcinoma

---

Animal Note: TGL 1 = NST; TGLs 4 & 9 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 287

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                      |                             |                          |
|---------------------------|----------------------|-----------------------------|--------------------------|
| * Adrenal Medulla         | * Aorta              | * Bone                      | * Bone Marrow            |
| * Epididymis              | * Esophagus          | * Eye                       | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Islets, Pancreatic | * Nerve Trigeminal          | * Nose                   |
| * Pancreas                | * Parathyroid Gland  | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Preputial Gland         | * Prostate           | * Salivary Glands           | * Skeletal Muscle        |
| * Skin                    | * Spinal Cord        | Testis                      | * Thyroid Gland          |
| * Trachea                 |                      |                             |                          |

MISSING

- |                             |                          |                          |                 |
|-----------------------------|--------------------------|--------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
|-----------------------------|--------------------------|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder              | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Stomach, Glandular     |                             |                          |

OBSERVATIONS

- |                   |                                                                  |                              |                     |
|-------------------|------------------------------------------------------------------|------------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                                                      | Hyperplasia                  | Mild                |
| * Brain           |                                                                  | Mineral                      | Minimal             |
| * Harderian Gland |                                                                  | Adenoma                      |                     |
|                   |                                                                  | Infiltration Cellular        | Lymphocyte, Minimal |
|                   | [ Adenoma TGLs = 6-4 ]                                           |                              |                     |
| * Heart           | Myocardium                                                       | Mineral                      | Minimal             |
| * Kidney          | Interstitium                                                     | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver           |                                                                  | Hemangiosarcoma              |                     |
|                   |                                                                  | Necrosis                     | Marked              |
|                   | [ Hemangiosarcoma TGLs = 8-12, 8-19, 9-12, 9-19, 10-12, 10-19, ] |                              |                     |
|                   | [ Necrosis TGLs = 7-12 ]                                         |                              |                     |
| * Lung            |                                                                  | Alveolar/Bronchiolar Adenoma |                     |
| * Seminal Vesicle | Bilateral                                                        | Dilation                     | Moderate            |
|                   | [ Dilation TGLs = 1-16 ]                                         |                              |                     |
| * Spleen          |                                                                  | Hemangiosarcoma              |                     |
|                   | [ Hemangiosarcoma TGLs = 4-12, 12-12 ]                           |                              |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 287

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 672

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-287

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Epithelium

Hyperplasia

Focal, Mild

\* Thymus

Atrophy

Moderate

\* Urinary Bladder

Transit Epithe

Hyperplasia

Multifocal, Mild

---

**PRIMARY CAUSE OF DEATH**

- Liver Hemangiosarcoma

---

Animal Note: TGLs 2 & 3 = NCL; TGL 11 = NST

Animal Note: TGL 5-13 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 288

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Pancreas                  | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands           | * Seminal Vesicle           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

MISSING

- |                          |                 |                    |
|--------------------------|-----------------|--------------------|
| * Lymph Node, Mandibular | * Mammary Gland | * Nerve Trigeminal |
|--------------------------|-----------------|--------------------|

OBSERVATIONS

- |                             |                                        |                              |                        |
|-----------------------------|----------------------------------------|------------------------------|------------------------|
| * Adrenal Cortex            | Subcapsular                            | Hyperplasia                  | Mild                   |
| * Brain                     |                                        | Mineral                      | Mild                   |
| * Heart                     | Myocardium                             | Mineral                      | Mild                   |
| * Kidney                    | Interstitial                           | Infiltration Cellular        | Lymphocyte, Mild       |
|                             |                                        | Nephropathy                  | Chronicprogr, Moderate |
|                             | Bilateral, Renal Tubule                | Pigment                      | Mild                   |
|                             | [ Nephropathy TGLs = 1-13 ]            |                              |                        |
| * Liver                     |                                        | Hepatoblastoma               |                        |
|                             |                                        | Hepatocellular Adenoma       |                        |
|                             | [ Hepatoblastoma TGLs = 3-12 ]         |                              |                        |
|                             | [ Hepatocellular Adenoma TGLs = 2-12 ] |                              |                        |
| * Peripheral Nerve, Sciatic | Axon                                   | Degeneration                 | Minimal                |
| * Pituitary Gland           | Pars Distalis                          | Cyst                         |                        |
| * Spleen                    |                                        | Extramedullary Hematopoiesis | Mild                   |
| * Urinary Bladder           | Transit Epithe                         | Hyperplasia                  | Diffuse, Moderate      |
|                             |                                        | Infiltration Cellular        | Lymphocyte, Mild       |
|                             |                                        | Inflammation                 | Chronic Active, Mild   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 289

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-289

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 292

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Brain
  - \* Kidney
  - \* Liver
  - \* Pancreas
  - \* Preputial Gland
  - \* Salivary Glands
  - \* Seminal Vesicle
- [ Clear Cell Focus TGLs = 2-19 ]  
 [ Eosinophilic Focus TGLs = 3-19 ]  
 [ Hepatocellular Adenoma TGLs = 1-12 ]
- Interstitial
- Bilateral
- Mineral  
Infiltration Cellular  
Nephropathy  
Clear Cell Focus  
Eosinophilic Focus  
Hepatocellular Adenoma
- Infiltration Cellular  
Infiltration Cellular  
Infiltration Cellular  
Dilation
- Minimal  
Lymphocyte, Mild  
Chronicprogr, Mild
- Lymphocyte, Minimal  
Lymphocyte, Minimal  
Lymphocyte, Mild  
Mild

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 294

TRT#: 3

SEX: Male

DAY ON TEST: 594

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Islets, Pancreatic
- \* Kidney
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Jejunum
- \* Stomach, Forestomach
- \* Stomach, Glandular

OBSERVATIONS

- \* Brain
- Mineral
- Minimal
- \* Epididymis
- Infiltration Cellular
- Lymphocyte, Mild
- \* Heart
- Alveolar/Bronchiolar Carcinoma
- Metastatic (Lung)
- Artery
- Inflammation
- Chronic Active, Minimal
- \* Liver
- Hepatocellular Carcinoma
- [ Hepatocellular Carcinoma TGLs = 2-12, 10-21 ]
- \* Lung
- Alveolar/Bronchiolar Carcinoma
- [ Alveolar/Bronchiolar Carcinoma TGLs = 5-19,6-10, 7-10, 8-10 ]
- \* Parathyroid GI
- Note: One parathyroid examined.
- \* Pituitary GI
- Note: Pars distalis examined.
- \* Preputial Gland
- Duct
- Dilation
- Mild
- [ Dilation TGLs = 1-16 ]
- \* Salivary Glands
- Infiltration Cellular
- Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 294

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 594

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-294

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Hepatocellular Carcinoma

Metastatic (Liver)

[ Hepatocellular Carcinoma TGLs = 4-6.1RC ]

---

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

---

Animal Note: TGLs 3 & 9 = NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 296

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mesenteric | * Thymus |
|--------------------------|----------|

OBSERVATIONS

- |                                       |              |                       |                       |
|---------------------------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular  | Adenoma               |                       |
|                                       | Subcapsular  | Hyperplasia           | Mild                  |
| Note: One adrenal is in section 6.    |              |                       |                       |
| * Brain                               |              | Mineral               | Minimal               |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal   |
|                                       |              | Metaplasia            | Osseous               |
|                                       |              | Nephropathy           | Chronicprogr, Minimal |
| * Parathyroid GI                      |              |                       |                       |
| Note: One parathyroid gland examined. |              |                       |                       |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Spleen                              |              | Hemangiosarcoma       |                       |
| Tooth                                 |              | Dysplasia             | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 297

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular    | * Nerve Trigeminal         |
| * Nose                      | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle           | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                      | * Thymus                    | * Thyroid Gland             | * Trachea                  |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                          |                                                    |                          |                     |
|--------------------------|----------------------------------------------------|--------------------------|---------------------|
| * Adrenal Cortex         | Subcapsular                                        | Hyperplasia              | Mild                |
| * Brain                  |                                                    | Mineral                  | Minimal             |
| * Harderian Gland        |                                                    | Infiltration Cellular    | Lymphocyte, Mild    |
| * Kidney                 | Interstitium                                       | Infiltration Cellular    | Lymphocyte, Mild    |
|                          |                                                    | Nephropathy              | Chronicprogr, Mild  |
| * Liver                  |                                                    | Hepatocellular Adenoma   | Multiple            |
|                          |                                                    | Hepatocellular Carcinoma |                     |
|                          | [ Hepatocellular Adenoma TGLs = 1-19, 2-12, 4-12 ] |                          |                     |
|                          | [ Hepatocellular Carcinoma TGLs = 3-12 ]           |                          |                     |
| * Lymph Node, Mesenteric |                                                    | Erythrophagocytosis      | Mild                |
| * Pancreas               |                                                    | Infiltration Cellular    | Lymphocyte, Minimal |
| * Preputial Gland        |                                                    | Infiltration Cellular    | Lymphocyte, Mild    |
| * Salivary Glands        |                                                    | Infiltration Cellular    | Lymphocyte, Mild    |
| * Urinary Bladder        |                                                    | Infiltration Cellular    | Lymphocyte, Minimal |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 298

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 722

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-298

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**CONTRIBUTORY CAUSE OF DEATH** - Lung Hepatocellular Carcinoma Liver

---

Animal Note: TGL 6 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 300

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Preputial Gland         | * Prostate                  | * Salivary Glands           |
| * Skeletal Muscle           | * Skin                    | * Spinal Cord               | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular      | Testis                      | * Thymus                    |
| * Thyroid Gland             | * Trachea                 |                             |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                      |                                                  |                                            |                                |
|----------------------|--------------------------------------------------|--------------------------------------------|--------------------------------|
| * Adrenal Cortex     | Subcapsular<br>Bilateral                         | Hyperplasia<br>Hypertrophy<br>Mineral      | Minimal<br>Focal, Mild<br>Mild |
| * Brain              |                                                  | Hyperplasia                                | Mild                           |
| * Islets, Pancreatic |                                                  | Mineral                                    | Minimal                        |
| * Kidney             |                                                  | Nephropathy                                | Chronicprogr, Minimal          |
| * Liver              |                                                  | Clear Cell Focus<br>Hepatocellular Adenoma |                                |
|                      | [ Clear Cell Focus TGLs = 3-12 ]                 |                                            |                                |
|                      | [ Hepatocellular Adenoma TGLs = 2-12 ]           |                                            |                                |
| * Lung               |                                                  | Alveolar/Bronchiolar Adenoma               |                                |
|                      | [ Alveolar/Bronchiolar Adenoma TGLs = 4-10.1RC ] |                                            |                                |
| * Parathyroid GI     |                                                  |                                            |                                |
|                      | Note: One parathyroid gland examined.            |                                            |                                |
| * Seminal Vesicle    | Bilateral                                        | Dilation                                   | Mild                           |
| Tooth                |                                                  | Dysplasia                                  | Mild                           |
| * Urinary Bladder    |                                                  | Hemangioma                                 |                                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 300

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-300

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 1 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 301

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Nose                      | * Pancreas               | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Salivary Glands        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Glandular        |
| Testis                      | * Thymus                    | * Thyroid Gland          | * Trachea                   |

MISSING

- |               |                 |                    |                     |
|---------------|-----------------|--------------------|---------------------|
| * Gallbladder | * Mammary Gland | * Nerve Trigeminal | * Parathyroid Gland |
|---------------|-----------------|--------------------|---------------------|

OBSERVATIONS

- |                               |                                         |                         |                       |
|-------------------------------|-----------------------------------------|-------------------------|-----------------------|
| * Adrenal Cortex              | Subcapsular                             | Hyperplasia             | Minimal               |
| * Brain                       |                                         | Mineral                 | Minimal               |
| * Kidney                      | Interstitium                            | Infiltration Cellular   | Lymphocyte, Minimal   |
|                               |                                         | Nephropathy             | Chronicprogr, Minimal |
| * Pituitary Gl                |                                         |                         |                       |
| Note: Pars distalis examined. |                                         |                         |                       |
| * Preputial Gland             |                                         | Infiltration Cellular   | Lymphocyte, Minimal   |
| * Seminal Vesicle             | Bilateral                               | Dilation                | Mild                  |
|                               | [ Dilation TGLs = 2-16 ]                |                         |                       |
| * Stomach, Forestomach        |                                         | Squamous Cell Papilloma |                       |
|                               | [ Squamous Cell Papilloma TGLs = 3-19 ] |                         |                       |
| Tooth                         |                                         | Dysplasia               | Mild                  |
| * Urinary Bladder             |                                         | Hemangioma              |                       |
|                               | [ Hemangioma TGLs = 1-13 ]              |                         |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 302

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                              Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- Metaplasia                                      Osseous
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Extramedullary Hematopoiesis                      Minimal
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Inflammation                                      Focal, Minimal
- [ Hepatocellular Adenoma    TGLs = 2-19 ]
- [ Hepatocellular Carcinoma    TGLs = 1-12 ]
- \* Lymph Node, Mesenteric                                      Hemorrhage                                      Minimal
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 303

TRT#: 3

SEX: Male

DAY ON TEST: 607

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Lung
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Brain
- Mineral
- Mild
- \* Liver
- Fatty Change
- Mild
- Hepatocellular Adenoma
- [ Hepatocellular Adenoma TGLs = 4-19 ]
- \* Salivary Glands
- Infiltration Cellular
- Lymphocyte, Mild
- \* Seminal Vesicle
- Bilateral
- Dilation
- Mild
- [ Dilation TGLs = 2-16 ]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Animal Note: TGLs 1, 3, & 5 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 305

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nerve Trigeminal        |
| * Nose                      | * Pancreas               | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      |
| Testis                      | * Thymus                 | * Thyroid Gland             | * Trachea                 |
| * Urinary Bladder           |                          |                             |                           |

MISSING

- |                 |                     |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- |                   |                                        |                        |                       |
|-------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                            | Hyperplasia            | Minimal               |
| * Brain           |                                        | Mineral                | Minimal               |
| * Epididymis      |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Harderian Gland |                                        | Hyperplasia            | Focal, Mild           |
| * Kidney          | Interstitium                           | Infiltration Cellular  | Lymphocyte, Mild      |
|                   |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver           |                                        | Fatty Change           | Mild                  |
|                   |                                        | Hepatocellular Adenoma |                       |
|                   | [ Hepatocellular Adenoma TGLs = 1-12 ] |                        |                       |
| * Preputial Gland |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Salivary Glands |                                        | Infiltration Cellular  | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 306

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Eye                     | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Nerve Trigeminal       |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Prostate                  | * Salivary Glands         | * Seminal Vesicle           | * Skeletal Muscle        |
| * Skin                      | * Spinal Cord             | * Stomach, Forestomach      | * Stomach, Glandular     |
| Testis                      | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

MISSING

- |             |                 |
|-------------|-----------------|
| * Esophagus | * Mammary Gland |
|-------------|-----------------|

OBSERVATIONS

- |                                       |             |                              |                        |
|---------------------------------------|-------------|------------------------------|------------------------|
| * Adrenal Cortex                      | Subcapsular | Hyperplasia                  | Minimal                |
| * Adren Medulla                       |             |                              |                        |
| Note: One adrenal medulla examined.   |             |                              |                        |
| * Brain                               |             | Mineral                      | Mild                   |
| * Epididymis                          |             | Granuloma Sperm              | Mild                   |
| * Gallbladder                         |             | Inflammation                 | Acute, Mild            |
| * Harderian Gland                     |             | Infiltration Cellular        | Lymphocyte, Minimal    |
| * Kidney                              |             | Nephropathy                  | Chronicprogr, Moderate |
| * Liver                               |             | Mixed Cell Focus             |                        |
| * Lung                                |             | Alveolar/Bronchiolar Adenoma |                        |
| * Lymph Node, Mesenteric              |             | Infiltration Cellular        | Histiocyte, Moderate   |
| [ Infiltration Cellular TGLs = 2-15 ] |             |                              |                        |
| Mesentery                             | Fat         | Necrosis                     | Moderate               |
| [ Necrosis TGLs = 1-6 ]               |             |                              |                        |
| * Peripheral Nerve, Sciatic           | Axon        | Degeneration                 | Mild                   |
| * Preputial Gland                     |             | Infiltration Cellular        | Lymphocyte, Mild       |
| * Spleen                              |             | Extramedullary Hematopoiesis | Mild                   |
| * Thymus                              |             | Atrophy                      | Moderate               |
| Tooth                                 |             | Dysplasia                    | Mild                   |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 307

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-307

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Hyperkeratosis	Mild
	Epithelium	Hyperplasia	Diffuse, Mild
* Thymus		Atrophy	Marked
	[ Atrophy TGLs = 7-6 ]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Lung Lymphoma Malignant

Animal Note: TGL 2 = NCL; TGL 4 = NST



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 308

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 690

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-308

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One parathyroid gland examined.

- \* Preputial Gland
- \* Salivary Glands
- \* Spleen

Infiltration Cellular  
Infiltration Cellular  
Extramedullary Hematopoiesis

Lymphocyte, Mild  
Lymphocyte, Minimal  
Moderate

[ Extramedullary Hematopoiesis TGLs = 6-12 ]

---

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

---

Animal Note: TGL 3 = NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 310

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lung
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Preputial Gland
- \* Skin
- Testis

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Islets, Pancreatic                      Hyperplasia                                      Mild
- \* Kidney                                      Nephropathy                                      Chronicprogr, Mild
- [ Nephropathy    TGLs = 1-13 ]
- \* Liver                                      Clear Cell Focus                                      Mild
- Fatty Change                                      Mild
- [ Clear Cell Focus    TGLs = 4-12 ]
- \* Lymph Node, Mesenteric                      Hyperplasia                                      Lymphoid, Mild
- Infiltration Cellular                                      Mixed Cell, Mild
- [ Hyperplasia    TGLs = 2-15 ]
- [ Infiltration Cellular    TGLs = 2-15 ]
- Mesentery                                      Fat                                      Necrosis                                      Mild
- [ Necrosis    TGLs = 3-19 ]
- \* Parathyroid GI                                      Note: One parathyroid gland examined.
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 310

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-310

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach  
[ Hyperplasia TGLs = 5-20 ]

Epithelium

Hyperplasia

Focal, Moderate

\* Thymus

Cyst

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 311

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-311

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Adjacent to the inflamed skeletal muscle is a bulbourethral gland with mild acute inflammation.

[ Inflammation TGLs = 11-19, 12-19 ]

\* Thymus

Atrophy

Marked

Tooth

Dysplasia

Moderate

---

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

---

Animal Note: TGLs 2, 3, 8, & 9 = NCL

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 312

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 663

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-312

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGLs 1, 2,4 & 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 313

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lung
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Skin
- Testis
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Islets, Pancreatic                      Hyperplasia                              Moderate
- \* Kidney                                      Nephropathy                              Chronicprogr, Moderate
- \* Liver                                      Hepatocellular Adenoma
- Hepatocellular Carcinoma
- [ Hepatocellular Carcinoma    TGLs = 1-12 ]
- Lymph Node                              Iliac                                      Erythrophagocytosis                      Mild
- Iliac                                      Infiltration Cellular                      Histiocyte, Mild
- [ Erythrophagocytosis    TGLs = 2-19 ]
- [ Infiltration Cellular    TGLs = 3-19 ]
- \* Lymph Node, Mesenteric                      Erythrophagocytosis                      Moderate
- \* Peripheral Nerve, Sciatic                      Degeneration                              Minimal
- \* Preputial Gland                              Duct                                      Dilatation                              Mild
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Mild
- \* Spleen                                      Extramedullary Hematopoiesis                      Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 314

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Salivary Glands
- \* Spinal Cord
- Testis

MISSING

- \* Gallbladder
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Islets, Pancreatic                      Hyperplasia                                      Marked
- \* Kidney                                      Infarct                                      Mild
- Nephropathy                                      Chronicprogr, Mild
- \* Liver                                      Fatty Change                                      Mild
- Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 2-12 ]
- \* Lung                                      Hemorrhage                                      Mild
- \* Pancreas                                      Acinus                                      Atrophy                                      Moderate
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Pituitary Gland                      Pars Distalis                                      Hyperplasia                                      Focal, Minimal
- \* Preputial Gland                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Urinary Bladder                                      Infiltration Cellular                                      Lymphocyte, Minimal

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 315

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-315

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Focal, Moderate
* Brain		Mineral	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 2-12 ]		
	[ Hepatocellular Carcinoma TGLs = 1-12 ]		
* Parathyroid GI			
	Note: One parathyroid gland examined.		
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Tooth		Dysplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                              Clear Cell Focus                                      Hepatocellular Adenoma                      Multiple
- Mixed Cell Focus
- [ Clear Cell Focus    TGLs = 2-12 ]
- [ Hepatocellular Adenoma    TGLs = 1-12, 3-12, 4-12 ]
- [ Mixed Cell Focus    TGLs = 5-19 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland                      Duct                                      Dilatation                                      Mild
- \* Salivary Glands                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Thymus                                              Cyst
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 422

TRT#: 5

SEX: Male

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder           |                             |                          |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                       |              |                       |                       |
|---------------------------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                  |
| * Brain                               |              | Mineral               | Mild                  |
| * Harderian Gland                     |              | Hyperplasia           | Focal, Mild           |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Mild      |
|                                       |              | Metaplasia            | Osseous               |
|                                       |              | Nephropathy           | Chronicprogr, Minimal |
| * Liver                               |              | Fatty Change          | Moderate              |
| * Lymph Node, Mesenteric              |              | Infiltration Cellular | Histiocyte, Moderate  |
|                                       |              |                       |                       |
| [ Infiltration Cellular TGLs = 2-15 ] |              |                       |                       |
| * Parathyroid Gland                   |              |                       |                       |
| Note: One parathyroid gland examined. |              |                       |                       |
| * Preputial Gland                     | Duct         | Dilation              | Moderate              |
|                                       |              |                       |                       |
| [ Dilation TGLs = 1-16 ]              |              |                       |                       |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Thymus                              |              | Cyst                  |                       |

\* PROTOCOL REQUIRED TISSUE







**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 424

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 739

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-424

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 1 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-426

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ORGAN AND ACCOUNTABLE SITE STATUS

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[ Alveolar/Bronchiolar Adenoma	TGLs = 3-19 ]		
Lymph Node	Iliac	Infiltration Cellular	Histiocyte, Mild
	Iliac	Pigment	Mild
[ Infiltration Cellular	TGLs = 5-20 ]		
[ Pigment	TGLs = 4-20 ]		
* Seminal Vesicle	Bilateral	Dilation	Mild
[ Dilation	TGLs = 5-20 ]		

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 427

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Prostate
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Seminal Vesicle
- \* Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Thymus

MISSING

- \* Gallbladder
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Mild
- \* Harderian Gland                              Adenoma                                      Moderate
- \* Islets, Pancreatic                              Hyperplasia                                      Lymphocyte, Mild
- \* Kidney                                      Interstitium                                      Infiltration Cellular
- \* Liver                                              Hepatocellular Carcinoma                      [ Hepatocellular Carcinoma    TGLs = 7-12,5-21 ]
- \* Lymph Node, Mesenteric                              Hemorrhage                                      Mild
- Mesentery                                      Fat                                              Necrosis                                      Mild
- \* Peripheral Nerve, Sciatic                              Axon                                              Degeneration                                      Minimal
- \* Preputial Gland                              Bilateral, Duct                                      Dilation                                      Moderate
- [ Dilation    TGLs = 3-16, 4-16 ]
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Skin                                              Subcut Tiss                                      Malignant Fibrous Histiocytoma
- [ Malignant Fibrous Histiocytoma    TGLs = 1-19, 2-20 ]
- \* Spinal Cord                                      Artery, Meninges                                      Inflammation                                      Chronic Active, Minimal
- \* Spleen                                              Extramedullary Hematopoiesis                      Mild

Animal Note: TGL 6 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 428

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Epididymis                | * Esophagus              | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      |
| Testis                      | * Thyroid Gland          | * Trachea                   | * Urinary Bladder         |

MISSING

- |                             |                 |
|-----------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Mammary Gland |
|-----------------------------|-----------------|

OBSERVATIONS

- |                     |                                                     |                                |                       |
|---------------------|-----------------------------------------------------|--------------------------------|-----------------------|
| * Adrenal Cortex    | Subcapsular                                         | Hyperplasia                    | Mild                  |
|                     |                                                     | Hyperplasia                    | Focal, Moderate       |
| * Brain             |                                                     | Mineral                        | Mild                  |
| * Harderian Gland   |                                                     | Adenoma                        |                       |
|                     | [ Adenoma TGLs = 6-5 ]                              |                                |                       |
| * Kidney            | Interstitial                                        | Infiltration Cellular          | Lymphocyte, Minimal   |
|                     |                                                     | Nephropathy                    | Chronicprogr, Minimal |
| * Liver             |                                                     | Clear Cell Focus               |                       |
|                     | [ Hepatocellular Adenoma TGLs = 1-12, 2-12 ]        | Hepatocellular Adenoma         | Multiple              |
| * Lung              |                                                     | Alveolar/Bronchiolar Carcinoma | Multiple              |
|                     | [ Alveolar/Bronchiolar Carcinoma TGLs = 4-19,3-10 ] |                                |                       |
| * Parathyroid Gland |                                                     |                                |                       |
|                     | Note: One parathyroid gland examined.               |                                |                       |
| * Preputial Gland   |                                                     | Infiltration Cellular          | Lymphocyte, Mild      |
| * Salivary Glands   |                                                     | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Thymus            |                                                     | Cyst                           |                       |

Animal Note: TGL 5 = NCL

\* PROTOCOL REQUIRED TISSUE







**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 430

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-430

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Seminal Vesicle

Bilateral

Dilation

Mild

---



**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 432

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	Testis
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Brain Trigeminal Ganglion	* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland
* Nerve Trigeminal	* Thymus		

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
		Squamous Cyst	
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Chronicprogr, Mild
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLs = 2-12, 3-12,1-19,4-12 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 5-20 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 433

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 739

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-433

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 5 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 437

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Epididymis                              Infiltration Cellular              Lymphocyte, Mild
- \* Kidney                                      Interstitium                        Infiltration Cellular              Lymphocyte, Mild
- Nephropathy                        Chronicprogr, Minimal
- \* Liver                                        Hepatocellular Adenoma           Multiple
- [ Hepatocellular Adenoma    TGLs = 1-12 ]
- \* Lung                                         Alveolar/Bronchiolar Carcinoma    Infiltration Cellular              Histiocyte, Moderate
- [ Alveolar/Bronchiolar Carcinoma    TGLs = 2-10 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic              Axon                                    Degeneration                        Minimal
- \* Salivary Glands                            Infiltration Cellular              Lymphocyte, Minimal
- \* Skeletal Muscle                            Infiltration Cellular              Lymphocyte, Mild
- \* Thymus                                        Cyst

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Prostate
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Mild
- \* Epididymis                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Islets, Pancreatic                                              Hyperplasia                                              Mild
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                              Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                                              Fatty Change                                              Mild
- Hepatocellular Adenoma                                              [ Hepatocellular Adenoma    TGLs = 4-12 ]
- Mesentery                                              Fat                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 3-6 ]
- \* Parathyroid Gland                                              Note: One parathyroid gland examined.
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-440

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Seminal Vesicle	Bilateral	Dilation	Mild
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma	TGLs = 1-19 ]		
* Spleen		Extramedullary Hematopoiesis	Mild

---

Animal Note: TGL 2 = NCL

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 441

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-441

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Preputial Gland	Bilateral, Duct	Dilation	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
* Thymus		Cyst	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

---

Animal Note: TGL 1 = NCL

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 442

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 654

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-442

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGL 1 = NST; TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 445

TRT#: 5

SEX: Male

DAY ON TEST: 630

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Thymus

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adren Cortex
  - Note: One adrenal examined.
- \* Adren Medulla
  - Note: One adrenal examined.
- \* Brain
- \* Kidney
  - Interstitial
- \* Liver
  - Mineral
  - Infiltration Cellular
  - Hepatocellular Carcinoma
  - Necrosis
  - Mild
  - Lymphocyte, Minimal
  - Marked
- \* Lung
  - [ Hepatocellular Carcinoma TGLs = 10-12 ]
  - [ Necrosis TGLs = 5-19, 6-12, 7-19, 8-19, 9-20 ]
  - Hepatocellular Carcinoma
  - Metastatic (Liver)
- \* Preputial Gland
  - Infiltration Cellular
  - Lymphocyte, Mild
- \* Salivary Glands
  - Infiltration Cellular
  - Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 445

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 630

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-445

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Extramedullary Hematopoiesis

Moderate

\* Thyroid GI

Note: One thyroid examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

---

Animal Note: TGLs 1, 2, & 11 = NCL; TGL 3 = NST

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 448

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Seminal Vesicle           | * Skeletal Muscle        | * Spinal Cord               |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                      |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                             |

OBSERVATIONS

- |                                       |                                                |                                |                       |
|---------------------------------------|------------------------------------------------|--------------------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular                                    | Hyperplasia                    | Mild                  |
| * Brain                               |                                                | Mineral                        | Mild                  |
| * Harderian Gland                     |                                                | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Islets, Pancreatic                  |                                                | Hyperplasia                    | Mild                  |
| * Kidney                              | Renal Tubule                                   | Adenoma                        |                       |
|                                       | Renal Tubule                                   | Cyst                           |                       |
|                                       | Interstitialium                                | Infiltration Cellular          | Lymphocyte, Mild      |
|                                       |                                                | Nephropathy                    | Chronicprogr, Minimal |
| * Liver                               |                                                | Extramedullary Hematopoiesis   | Mild                  |
|                                       |                                                | Fatty Change                   | Mild                  |
|                                       |                                                | Inflammation                   | Focal, Minimal        |
| * Lung                                | Alveolar Epith                                 | Hyperplasia                    | Focal, Minimal        |
| * Parathyroid Gland                   |                                                |                                |                       |
| Note: One parathyroid gland examined. |                                                |                                |                       |
| * Preputial Gland                     |                                                | Infiltration Cellular          | Lymphocyte, Mild      |
| * Prostate                            |                                                | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Salivary Glands                     |                                                | Infiltration Cellular          | Lymphocyte, Mild      |
| * Skin                                | Subcut Tiss                                    | Malignant Fibrous Histiocytoma |                       |
|                                       | [ Malignant Fibrous Histiocytoma TGLs = 1-19 ] |                                |                       |
| * Urinary Bladder                     |                                                | Infiltration Cellular          | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 449

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Nerve Trigeminal
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Brain		Mineral	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Moderate
		Mixed Cell Focus	
	[ Clear Cell Focus TGLs = 1-12 ]		
	[ Mixed Cell Focus TGLs = 1-12 ]		
* Preputial Gland	Duct	Dilation	Moderate
		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
Tooth		Dysplasia	Mild

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 450

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- Testis
- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Islets, Pancreatic                              Hyperplasia                              Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                              Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus
- Eosinophilic Focus
- [ Clear Cell Focus    TGLs = 1-12 ]
- \* Parathyroid Gland                              Note: One parathyroid gland examined.
- \* Preputial Gland                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Prostate                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Seminal Vesicle                              Bilateral                                      Dilation                                      Mild
- \* Thymus                                              Cyst

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 452

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| Testis                      | * Thyroid Gland           | * Trachea                   | * Urinary Bladder           |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                          |                                                    |                                                                                                                          |                                                         |
|--------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| * Adrenal Cortex         | Subcapsular<br>Bilateral                           | Hyperplasia<br>Hypertrophy<br>Mineral<br>Nephropathy<br>Clear Cell Focus<br>Eosinophilic Focus<br>Hepatocellular Adenoma | Mild<br>Focal, Mild<br>Minimal<br>Chronicprogr, Minimal |
| * Brain                  |                                                    |                                                                                                                          |                                                         |
| * Kidney                 |                                                    |                                                                                                                          |                                                         |
| * Liver                  |                                                    |                                                                                                                          |                                                         |
|                          | [ Hepatocellular Adenoma TGLs = 2-12, 3-12, 4-20 ] |                                                                                                                          | Multiple                                                |
| * Lung                   | [ Alveolar/Bronchiolar Carcinoma TGLs = 5-19 ]     | Alveolar/Bronchiolar Carcinoma                                                                                           |                                                         |
| * Lymph Node, Mesenteric |                                                    | Erythrophagocytosis                                                                                                      | Mild                                                    |
| * Parathyroid GI         |                                                    |                                                                                                                          |                                                         |
|                          | Note: One parathyroid gland examined.              |                                                                                                                          |                                                         |
| * Preputial Gland        | Duct                                               | Dilation                                                                                                                 | Moderate                                                |
|                          | [ Dilation TGLs = 1-16 ]                           |                                                                                                                          |                                                         |
| * Salivary Glands        |                                                    | Infiltration Cellular                                                                                                    | Lymphocyte, Mild                                        |
| * Seminal Vesicle        |                                                    | Dilation                                                                                                                 | Mild                                                    |
| * Thymus                 |                                                    | Cyst                                                                                                                     |                                                         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 452

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-452

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 453

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Salivary Glands
- \* Spleen
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pituitary Gland
- \* Skin
- \* Trachea
- \* Bone Marrow
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Spinal Cord
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Thyroid Gland
- \* Mammary Gland
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex  
Subcapsular  
Hyperplasia  
Mild  
Note: One adrenal cortex examined.
- \* Adren Medulla  
Note: One adrenal medulla examined.
- \* Kidney  
Interstitial  
Infiltration Cellular  
Nephropathy  
Eosinophilic Focus  
Hepatocellular Adenoma  
Hepatocellular Carcinoma  
Lymphocyte, Minimal  
Chronicprogr, Minimal
- \* Liver  
[ Hepatocellular Adenoma TGLs = 2-12, 3-12 ]  
[ Hepatocellular Carcinoma TGLs = 5-19 ]  
Multiple
- \* Lung  
[ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ]  
Alveolar/Bronchiolar Carcinoma
- \* Peripheral Nerve, Sciatic  
Axon  
Degeneration  
Minimal
- \* Preputial Gland  
Duct  
Dilation  
Infiltration Cellular  
Moderate  
Lymphocyte, Mild  
[ Dilation TGLs = 1-16 ]
- \* Seminal Vesicle  
Dilation  
Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 453

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-453

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Infiltration Cellular

Lymphocyte, Mild

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLs = 6-14 ]

Testis

Germ Cell

Degeneration

Mild

\* Thymus

Cyst

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 454

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                             |
|---------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland         | * Skeletal Muscle           | * Skin                   | * Spinal Cord               |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                      |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder           |

MISSING

- |                             |                 |
|-----------------------------|-----------------|
| * Brain Trigeminal Ganglion | * Mammary Gland |
|-----------------------------|-----------------|

OBSERVATIONS

- |                                                          |              |                                |                       |
|----------------------------------------------------------|--------------|--------------------------------|-----------------------|
| * Adrenal Cortex                                         | Subcapsular  | Hyperplasia                    | Mild                  |
| * Adren Medulla                                          |              |                                |                       |
| Note: One adrenal medulla examined.                      |              |                                |                       |
| * Brain                                                  |              | Mineral                        | Minimal               |
| * Kidney                                                 | Interstitium | Infiltration Cellular          | Lymphocyte, Mild      |
|                                                          |              | Nephropathy                    | Chronicprogr, Minimal |
| * Liver                                                  |              | Clear Cell Focus               |                       |
|                                                          |              | Fatty Change                   | Mild                  |
|                                                          |              | Hepatocellular Adenoma         | Multiple              |
| [ Clear Cell Focus TGLs = 5-19 ]                         |              |                                |                       |
| [ Hepatocellular Adenoma TGLs = 1-12, 2-12, 3-12, 4-12 ] |              |                                |                       |
| * Lung                                                   |              | Alveolar/Bronchiolar Carcinoma |                       |
| [ Alveolar/Bronchiolar Carcinoma TGLs = 6-10 ]           |              |                                |                       |
| * Parathyroid GI                                         |              |                                |                       |
| Note: One parathyroid gland examined.                    |              |                                |                       |
| * Preputial Gland                                        |              | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Prostate                                               |              | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Salivary Glands                                        |              | Infiltration Cellular          | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 454

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-454

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Seminal Vesicle

Bilateral

Dilation

Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 455

TRT#: 5

SEX: Male

DAY ON TEST: 605

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Rectum
- \* Intestine Small, Ileum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Salivary Glands
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Stomach, Forestomach
- \* Stomach, Glandular

OBSERVATIONS

- \* Brain
  - \* Kidney
  - \* Liver
  - [ Hepatocellular Adenoma TGLs = 4-12 ]
  - [ Hepatocellular Carcinoma TGLs = 5-12 ]
  - \* Parathyroid GI
  - Note: One parathyroid examined.
  - \* Pituitary GI
  - Note: Pars distalis examined
  - \* Preputial Gland
  - [ Dilation TGLs = 1-16 ]
  - \* Seminal Vesicle
  - [ Dilation TGLs = 3-16 ]
- Interstitial
- Bilateral, Duct
- Bilateral
- Mineral Infiltration Cellular
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Dilation
- Dilation
- Mild Lymphocyte, Mild
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 455

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 605

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-455

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Cyst

---

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

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Animal Note: TGLs 2 & 6 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 457

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Skin
- Testis
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Mild
- \* Intestine Small, Duodenum                      Adenoma
- [ Adenoma    TGLs = 1-14 ]
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                      Fatty Change                                      Mild
- Hepatocellular Adenoma                      Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 2-12, 3-19 ]
- \* Parathyroid GI                      Note: One parathyroid gland examined.
- \* Preputial Gland                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Seminal Vesicle                      Bilateral                                      Dilatation                                      Moderate
- \* Spleen                                      Extramedullary Hematopoiesis                      Mild

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 461

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 700

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-461

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 5-12 ]

\* Thymus

Hemorrhage

Moderate

[ Hemorrhage TGLs = 2-6 ]

\* Thyroid GI

Note: One thyroid gland examined.

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

---

Animal Note: TGL 1 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 463

TRT#: 5

SEX: Male

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nerve Trigeminal
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Brain Trigeminal Ganglion	* Mammary Gland
-----------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 3-12, 6-19, 7-19, 9-19, 8-20, 10-20 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ]		
* Parathyroid Gland			
	Note: One parathyroid gland examined.		
* Pituitary Gland			
	Note: Pars distalis examined.		
* Preputial Gland	Duct	Dilation	Moderate
	[ Dilation TGLs = 1-16 ]		
* Skeletal Muscle		Infiltration Cellular	Lymphocyte, Minimal
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 5-21 ]		
* Thymus		Atrophy	Moderate
Tooth		Dysplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 463

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 739

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-463

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 2 = NCL

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 464

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-464

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Moderate
[ Dilation TGLs = 1-16 ]			

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 465

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- Testis
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Preputial Gland
- \* Spleen
- \* Thymus
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lung
- \* Parathyroid Gland
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Gallbladder
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
  - Hyperplasia
  - Focal, Moderate
- \* Brain
  - Hyperplasia
  - Mild
- \* Epididymis
  - Mineral
  - Mild
- \* Islets, Pancreatic
  - Infiltration Cellular
  - Lymphocyte, Minimal
- \* Kidney
  - Hyperplasia
  - Moderate
- \* Liver
  - Infiltration Cellular
  - Lymphocyte, Mild
  - Nephropathy
  - Chronicprogr, Minimal
  - Hepatocellular Adenoma
  - Multiple
- [ Hepatocellular Adenoma TGLs = 5-12, 6-12 ]
- \* Lymph Node, Mesenteric
  - Infiltration Cellular
  - Histiocyte, Mild
- \* Pancreas
  - Infiltration Cellular
  - Lymphocyte, Minimal
- \* Parathyroid GI
  - Note: One parathyroid gland examined.
- \* Salivary Glands
  - Infiltration Cellular
  - Lymphocyte, Minimal
- \* Seminal Vesicle
  - Bilateral
  - Dilation
  - Moderate
  - Bilateral
  - Inflammation
  - Chronic, Minimal
- [ Inflammation TGLs = 1-19, 2-19, 3-19, 4-19 ]
- \* Spinal Cord
  - Artery, Meninges
  - Inflammation
  - Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 465

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-465

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Cervical and thoracic spinal cord examined.

Tooth

Dysplasia

Moderate

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 468

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-468

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH

- Liver Hepatoblastoma

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 469

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Gallbladder
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Salivary Glands

OBSERVATIONS

- \* Brain
  - \* Epididymis
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Peripheral Nerve, Sciatic
  - \* Spleen
- [ Hepatocellular Adenoma TGLs = 4-12,5-19 ]
- [ Hepatocellular Carcinoma TGLs = 2-12,3-12 ]
- Interstitium
- Axon
- Mineral
- Infiltration Cellular
- Infiltration Cellular
- Nephropathy
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hepatocellular Carcinoma
- Degeneration
- Extramedullary Hematopoiesis
- Minimal
- Lymphocyte, Mild
- Lymphocyte, Mild
- Chronicprogr, Minimal
- Multiple
- Multiple
- Metastatic (Liver)
- Moderate
- Mild

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 473

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-473

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Marked

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 475

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Brain Trigeminal Ganglion	* Intestine Large, Colon	* Intestine Large, Rectum	* Mammary Gland
* Nerve Trigeminal			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Mild
		Metaplasia	Osseous
* Liver		Nephropathy	Chronicprogr, Moderate
		Clear Cell Focus	
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 2-20 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 4-19 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLs = 1-15 ]		
* Parathyroid Gland			
	Note: One parathyroid gland examined.		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 475

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-475

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 3 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 476

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thymus                 | * Thyroid Gland             |
| * Trachea                   |                             |                          |                             |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- |                                        |             |                        |                        |
|----------------------------------------|-------------|------------------------|------------------------|
| * Adrenal Cortex                       | Subcapsular | Hyperplasia            | Mild                   |
| * Brain                                |             | Mineral                | Minimal                |
| * Epididymis                           |             | Infiltration Cellular  | Lymphocyte, Minimal    |
| * Kidney                               |             | Nephropathy            | Chronicprogr, Minimal  |
| * Liver                                |             | Clear Cell Focus       |                        |
|                                        |             | Fatty Change           | Moderate               |
|                                        |             | Hepatocellular Adenoma |                        |
| [ Hepatocellular Adenoma TGLs = 1-19 ] |             |                        |                        |
| * Parathyroid Gland                    |             |                        |                        |
| Note: One parathyroid gland examined.  |             |                        |                        |
| * Preputial Gland                      | Duct        | Inflammation           | Chronic Active, Marked |
| * Salivary Glands                      |             | Infiltration Cellular  | Lymphocyte, Minimal    |
| * Urinary Bladder                      |             | Infiltration Cellular  | Lymphocyte, Mild       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 479

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Kidney
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- Testis

MISSING

- \* Gallbladder
- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Islets, Pancreatic                      Carcinoma
- [ Carcinoma    TGLs = 1-6 ]
- \* Liver                                      Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 2-12 ]
- \* Lung                                      Congestion                                      Mild
- Alveolar Epith                                      Hyperplasia                                      Focal, Mild
- [ Congestion    TGLs = 5-10 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Seminal Vesicle                                      Bilateral                                      Dilatation                                      Moderate
- [ Dilatation    TGLs = 4-16 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 479

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-479

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Thyroid GI

Note: One thyroid gland examined.

---

**PRIMARY CAUSE OF DEATH**

- Islets, Pancreatic Carcinoma

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Animal Note: TGL 3 = NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 481

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Preputial Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Prostate
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Salivary Glands
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Gallbladder
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex [ Hyperplasia TGLs = 1-7 ] Subcapsular Hyperplasia Mild
- \* Brain Mineral Mild
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Fatty Change Moderate
- [ Hepatocellular Adenoma TGLs = 2-12, 3-19 ] Hepatocellular Adenoma Multiple
- \* Peripheral Nerve, Sciatic Axon Degeneration Minimal
- \* Thymus Cyst
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 482

TRT#: 5

SEX: Male

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Brain
- Mineral
- Mild
- \* Intestine Small, Ileum
- Peyers Patch
- Hyperplasia
- Lymphoid, Mild
- [ Hyperplasia TGLs = 2-15 ]
- \* Kidney
- Interstitial
- Infiltration Cellular
- Lymphocyte, Minimal
- Nephropathy
- Chronicprogr, Minimal
- \* Liver
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- [ Hepatocellular Adenoma TGLs = 3-12 ]
- [ Hepatocellular Carcinoma TGLs = 4-12 ]
- \* Lung
- Hepatocellular Carcinoma
- Metastatic (Liver)
- \* Preputial Gland
- Infiltration Cellular
- Lymphocyte, Minimal
- \* Salivary Glands
- Infiltration Cellular
- Lymphocyte, Minimal
- \* Spleen
- Extramedullary Hematopoiesis
- Mild
- [ Extramedullary Hematopoiesis TGLs = 1-12 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 483

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate               | * Seminal Vesicle          |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Stomach, Glandular       |
| Testis                      | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                        |                                              |                              |                       |
|------------------------|----------------------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex       | Subcapsular                                  | Hyperplasia                  | Mild                  |
| * Brain                |                                              | Mineral                      | Mild                  |
| * Harderian Gland      |                                              | Infiltration Cellular        | Lymphocyte, Mild      |
| * Kidney               |                                              | Nephropathy                  | Chronicprogr, Minimal |
| * Liver                |                                              | Clear Cell Focus             |                       |
|                        |                                              | Eosinophilic Focus           |                       |
|                        |                                              | Extramedullary Hematopoiesis | Mild                  |
|                        |                                              | Fatty Change                 | Mild                  |
|                        |                                              | Hepatocellular Adenoma       | Multiple              |
|                        |                                              | Hepatocellular Carcinoma     |                       |
|                        | [ Hepatocellular Adenoma TGLs = 2-12, 3-12 ] |                              |                       |
|                        | [ Hepatocellular Carcinoma TGLs = 1-19 ]     |                              |                       |
| * Preputial Gland      |                                              | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Salivary Glands      |                                              | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Spleen               |                                              | Hyperplasia                  | Lymphoid, Mild        |
| * Stomach, Forestomach |                                              | Cyst                         | Squamous              |
| * Urinary Bladder      |                                              | Infiltration Cellular        | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 484

TRT#: 5

SEX: Male

DAY ON TEST: 604

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                           |                             |
|-----------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Aorta                   | * Bone                      |
| * Bone Marrow               | * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 |
| * Eye                       | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Islets, Pancreatic        | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Nerve Trigeminal          | * Nose                      | * Pancreas                | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate                | * Seminal Vesicle           |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                    | * Thymus                    |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder         |                             |

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- |                               |                                                |                        |
|-------------------------------|------------------------------------------------|------------------------|
| * Brain                       | Mineral                                        | Minimal                |
| * Kidney                      | Metaplasia                                     | Osseous                |
|                               | Nephropathy                                    | Chronicprogr, Minimal  |
| * Liver                       | Hepatocellular Carcinoma                       |                        |
|                               | Mixed Cell Focus                               |                        |
|                               | Necrosis                                       | Moderate               |
|                               | [ Hepatocellular Carcinoma TGLs = 2-12, 4-12 ] |                        |
| * Lung                        | Alveolar/Bronchiolar Adenoma                   |                        |
|                               | [ Alveolar/Bronchiolar Adenoma TGLs = 3-19 ]   |                        |
| * Pituitary Gland             |                                                |                        |
| Note: Pars distalis examined. |                                                |                        |
| * Preputial Gland             | Inflammation                                   | Chronic Active, Marked |
|                               | [ Inflammation TGLs = 1-16 ]                   |                        |
| * Salivary Glands             | Infiltration Cellular                          | Lymphocyte, Minimal    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 484

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 604

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-484

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 485

TRT#: 5

SEX: Male

DAY ON TEST: 682

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-485

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hemorrhage	Marked
* Preputial Gland	Duct	Dilation	Mild
[ Dilation TGLs = 10-16 ]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
[ Dilation TGLs = 1-16 ]			
* Spleen	White Pulp	Atrophy	Mild
[ Atrophy TGLs = 7-12 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2 = NCL

Animal Note: TGL 8 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 487

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Eye                                          Retina                                          Degeneration                      Moderate
- Optic Nerve                                      Degeneration                      Moderate
- [ Degeneration    TGLs = 7-5 ]
- \* Harderian Gland                                      Adenoma                                      Infiltration Cellular                      Lymphocyte, Minimal
- [ Adenoma    TGLs = 8-5 ]
- \* Kidney                                          Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                                                                              Clear Cell Focus                                      Hepatoblastoma                                      Hepatocellular Adenoma                      Multiple
- [ Hepatoblastoma    TGLs = 3-12 ]
- [ Hepatocellular Adenoma    TGLs = 2-12, 4-12, 5-19 ]
- \* Lung                                                                                              Alveolar/Bronchiolar Adenoma                      Hemorrhage                                      Mild
- [ Alveolar/Bronchiolar Adenoma    TGLs = 6-10 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 487

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-487

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Parathyroid Gland			
Note: One parathyroid examined.			
* Pituitary Gland	Pars Distalis	Cyst	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Seminal Vesicle	Bilateral	Dilation	Moderate
[ Dilation TGLs = 1-16 ]			
Tooth		Dysplasia	Moderate
[ Dysplasia TGLs = 9-18 ]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 488

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-488

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Inflammation

Suppurative, Moderate

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 489

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Skin
- Testis
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Mammary Gland
- \* Thymus

OBSERVATIONS

- \* Brain
- \* Harderian Gland
- \* Kidney
- \* Liver
- [ Hepatocellular Carcinoma TGLs = 4-12 ]
- \* Lung
- [ Alveolar/Bronchiolar Adenoma TGLs = 5-10 ]
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic
- \* Preputial Gland
- [ Dilation TGLs = 1-16 ]
- \* Salivary Glands
- \* Spleen
- Mineral
- Infiltration Cellular
- Infiltration Cellular
- Nephropathy
- Eosinophilic Focus
- Hepatocellular Carcinoma
- Alveolar/Bronchiolar Adenoma
- Hepatocellular Carcinoma
- Erythrophagocytosis
- Cyst
- Degeneration
- Dilation
- Infiltration Cellular
- Infiltration Cellular
- Extramedullary Hematopoiesis
- Mild
- Lymphocyte, Minimal
- Lymphocyte, Mild
- Chronicprogr, Minimal
- Metastatic (Liver)
- Minimal
- Minimal
- Mild
- Lymphocyte, Mild
- Lymphocyte, Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 489

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-489

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Extramedullary Hematopoiesis TGLs = 2-12 ]

Tooth

Inflammation

Suppurative, Moderate

---

Animal Note: TGL 3 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 490

TRT#: 5

SEX: Male

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Mammary Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
  - [ Hyperplasia TGLs = 2-7 ]
- \* Brain
- \* Kidney
- \* Liver
  - [ Hepatocellular Adenoma TGLs = 3-19, 4-20, 5-12 ]
- \* Lung
  - Alveolar/Bronchiolar Adenoma
  - Hemorrhage
- \* Parathyroid Gland
  - Note: One parathyroid gland examined.
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
  - [ Dilation TGLs = 1-16 ]

- Hyperplasia
- Hyperplasia
- Mineral
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hepatocellular Adenoma
- Alveolar/Bronchiolar Adenoma
- Hemorrhage
- Infiltration Cellular
- Infiltration Cellular
- Dilation
- Focal, Moderate
- Mild
- Minimal
- Chronicprogr, Minimal
- Multiple
- Multiple
- Mild
- Lymphocyte, Mild
- Lymphocyte, Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 492

TRT#: 5

SEX: Male

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
	[ Clear Cell Focus TGLs = 4-12 ]		
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLs = 6-20 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLs = 2-12, 3-19 ]		
* Thymus		Cyst	

Animal Note: TGLs 1, 5, & 7 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 493

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Seminal Vesicle           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| Testis                      | * Thymus                    | * Thyroid Gland          | * Trachea                   |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                                        |              |                        |                     |
|----------------------------------------|--------------|------------------------|---------------------|
| * Adrenal Cortex                       | Subcapsular  | Hyperplasia            | Mild                |
| * Adren Medulla                        |              |                        |                     |
| Note: One adrenal medulla examined.    |              |                        |                     |
| * Brain                                |              | Mineral                | Mild                |
| * Epididymis                           |              | Infiltration Cellular  | Lymphocyte, Mild    |
| * Kidney                               | Interstitium | Infiltration Cellular  | Lymphocyte, Minimal |
| * Liver                                |              | Clear Cell Focus       |                     |
|                                        |              | Fatty Change           | Mild                |
|                                        |              | Hepatocellular Adenoma |                     |
| [ Hepatocellular Adenoma TGLs = 1-12 ] |              |                        |                     |
| * Parathyroid GI                       |              |                        |                     |
| Note: One parathyroid gland examined.  |              |                        |                     |
| * Preputial Gland                      |              | Infiltration Cellular  | Lymphocyte, Mild    |
| * Prostate                             |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Salivary Glands                      |              | Infiltration Cellular  | Lymphocyte, Mild    |
| Tooth                                  |              | Dysplasia              | Moderate            |
| * Urinary Bladder                      |              | Infiltration Cellular  | Lymphocyte, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 494

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone                    | * Bone Marrow               |
| * Esophagus              | * Eye                       | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         | * Prostate                  |
| * Seminal Vesicle        | * Skeletal Muscle           | * Skin                    | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      | Testis                      |
| * Thyroid Gland          | * Trachea                   | * Urinary Bladder         |                             |

MISSING

- |                             |                 |                    |
|-----------------------------|-----------------|--------------------|
| * Brain Trigeminal Ganglion | * Mammary Gland | * Nerve Trigeminal |
|-----------------------------|-----------------|--------------------|

OBSERVATIONS

- |                   |                                       |                                              |                       |
|-------------------|---------------------------------------|----------------------------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                           | Hyperplasia                                  | Mild                  |
| * Brain           |                                       | Mineral                                      | Mild                  |
| * Epididymis      |                                       | Infiltration Cellular                        | Lymphocyte, Minimal   |
| * Harderian Gland |                                       | Infiltration Cellular                        | Lymphocyte, Minimal   |
| * Kidney          |                                       | Nephropathy                                  | Chronicprogr, Minimal |
| * Liver           |                                       | Hepatoblastoma                               |                       |
|                   |                                       | Hepatocellular Adenoma                       | Multiple              |
|                   |                                       | Hepatocellular Carcinoma                     |                       |
|                   |                                       | [ Hepatoblastoma TGLs = 1-12 ]               |                       |
|                   |                                       | [ Hepatocellular Adenoma TGLs = 3-19, 4-20 ] |                       |
|                   |                                       | [ Hepatocellular Carcinoma TGLs = 2-12 ]     |                       |
| * Parathyroid GI  | Note: One parathyroid gland examined. |                                              |                       |
| * Preputial Gland |                                       | Infiltration Cellular                        | Lymphocyte, Mild      |
| * Salivary Glands |                                       | Infiltration Cellular                        | Lymphocyte, Mild      |
| * Thymus          |                                       | Cyst                                         |                       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 496

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skin
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Brain Trigeminal Ganglion
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Bilateral                      Hyperplasia                      Focal, Moderate
- Subcapsular                    Hyperplasia                      Mild
- \* Brain                                    Mineral                          Minimal
- \* Epididymis                            Infiltration Cellular            Lymphocyte, Minimal
- \* Harderian Gland                      Infiltration Cellular            Lymphocyte, Mild
- \* Intestine Large, Cecum              Leiomyoma
- [ Leiomyoma    TGLs = 2-15 ]
- \* Kidney                                 Interstitial                      Infiltration Cellular            Lymphocyte, Mild
- Nephropathy                      Chronicprogr, Minimal
- \* Liver                                    Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Note: The pancreas is on slide #15.
- [ Hepatocellular Adenoma    TGLs = 3-20RT ]
- [ Hepatocellular Carcinoma   TGLs = 1-6 ]
- \* Preputial Gland                      Infiltration Cellular            Lymphocyte, Minimal
- \* Salivary Glands                      Infiltration Cellular            Lymphocyte, Mild
- \* Stomach, Forestomach                Epithelium                      Hyperplasia                      Focal, Moderate
- Inflammation                      Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 496

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-496

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLs = 5-14 ]

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Animal Note: TGL 4 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 498

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Kidney
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Nose
- \* Salivary Glands
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Esophagus
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
    - Subcapsular
  - \* Brain
  - \* Epididymis
  - \* Eye
    - [ Phthisis Bulbi TGLs = 9-5 ]
  - \* Harderian Gland
    - [ Adenoma TGLs = 10-5 ]
  - \* Intestine Small, Duodenum
    - [ Histiocytic Sarcoma TGLs = 1-19 ]
  - \* Liver
    - [ Hepatocellular Adenoma TGLs = 3-12, 11-25 ]
  - \* Lung
  - Lymph Node
    - [ Histiocytic Sarcoma TGLs = 5-21, 6-22, 7-23, 8-24 ]
  - \* Lymph Node, Mesenteric
    - [ Histiocytic Sarcoma TGLs = 2-20 ]
- Histiocytic Sarcoma  
Hyperplasia  
Mineral  
Histiocytic Sarcoma  
Phthisis Bulbi  
Adenoma  
Histiocytic Sarcoma  
Clear Cell Focus  
Eosinophilic Focus  
Hepatocellular Adenoma  
Histiocytic Sarcoma  
Histiocytic Sarcoma  
Histiocytic Sarcoma
- Mild  
Minimal  
Multiple

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

ANIMAL ID: 498

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-498

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Pancreas	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLs = 2-20 ]		
* Preputial Gland	Infiltration Cellular	Lymphocyte, Minimal
* Prostate	Histiocytic Sarcoma	
* Seminal Vesicle	Histiocytic Sarcoma	
* Thymus	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLs = 4-6 ]		
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Mild

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 500

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-500

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Preputial Gland

Infiltration Cellular

Lymphocyte, Mild

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Thymus

Cyst

\* Thyroid GI

Note: One thyroid gland examined.

---

Animal Note: TGL 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 501

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Preputial Gland
- \* Spinal Cord
- Testis
- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Salivary Glands
- \* Spleen
- \* Thymus
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Brain Trigeminal Ganglion
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
    - Subcapsular
    - Subcapsular
    - [ Adenoma TGLs = 2-7 ]
  - \* Brain
  - \* Epididymis
  - \* Harderian Gland
  - \* Kidney
    - Interstitial
  - \* Liver
    - Adenoma
    - Hyperplasia
    - Mineral
    - Infiltration Cellular
    - Infiltration Cellular
    - Infiltration Cellular
    - Nephropathy
    - Clear Cell Focus
    - Hepatoblastoma
    - Hepatocellular Adenoma
    - Hepatocellular Carcinoma
    - [ Clear Cell Focus TGLs = 4-12 ]
    - [ Hepatoblastoma TGLs = 7-19 ]
    - [ Hepatocellular Adenoma TGLs = 6-19, 5-19 ]
    - [ Hepatocellular Carcinoma TGLs = 3-12 ]
  - \* Peripheral Nerve, Sciatic
    - Axon
  - \* Prostate
    - Degeneration
    - Infiltration Cellular
- Mild
- Minimal
- Lymphocyte, Minimal
- Lymphocyte, Mild
- Lymphocyte, Mild
- Chronicprogr, Mild
- Multiple
- Minimal
- Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 501

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-501

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Seminal Vesicle

[ Dilation TGLs = 1-16 ]

Dilation

Moderate

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 502

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                          |
|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                      | * Pancreas               |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate               |
| * Seminal Vesicle           | * Skeletal Muscle           | * Skin                      | * Spinal Cord            |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   |
| * Thymus                    | * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                   |              |                                              |                       |
|-------------------|--------------|----------------------------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia                                  | Mild                  |
| * Brain           |              | Mineral                                      | Minimal               |
| * Kidney          | Interstitium | Infiltration Cellular                        | Lymphocyte, Mild      |
|                   |              | Nephropathy                                  | Chronicprogr, Minimal |
| * Liver           |              | Clear Cell Focus                             |                       |
|                   |              | Fatty Change                                 | Mild                  |
|                   |              | Hepatocellular Adenoma                       | Multiple              |
|                   |              | [ Clear Cell Focus TGLs = 2-12 ]             |                       |
|                   |              | [ Hepatocellular Adenoma TGLs = 3-12, 4-12 ] |                       |
| * Pituitary Gland |              |                                              |                       |
|                   |              | Note: Pars distalis examined.                |                       |
| * Preputial Gland |              | Infiltration Cellular                        | Lymphocyte, Minimal   |
| * Salivary Glands |              | Infiltration Cellular                        | Lymphocyte, Mild      |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 504

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-504

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Seminal Vesicle [ Dilation TGLs = 1-16 ]	Bilateral	Dilation	Mild
* Skeletal Muscle		Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

---

Animal Note: TGL 2 = NCL

---





Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 507

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Brain Trigeminal Ganglion	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	Testis	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Hemangiosarcoma	
* Brain		Mineral	Mild
* Epididymis		Infiltration Cellular	Lymphocyte, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
		Nephropathy	Chronicprogr, Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 2-12 ]		
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 1-12 ]		
* Thymus		Cyst	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 508

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skin
- Testis
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Glandular

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular Adenoma
  - Hyperplasia Focal, Moderate
  - Subcapsular Hyperplasia Mild
  - Hypertrophy Focal, Minimal
  - Mineral Mild
- \* Brain
  - Infiltration Cellular Lymphocyte, Mild
  - Nephropathy Chronicprogr, Minimal
- \* Kidney
  - Clear Cell Focus
  - Fatty Change Mild
  - Hepatocellular Adenoma Multiple
  - Hepatocellular Carcinoma
  - Inflammation Focal, Minimal
- \* Lung
  - [ Hepatocellular Adenoma TGLs = 3-12 ]
  - [ Hepatocellular Carcinoma TGLs = 2-12 ]
  - Alveolar/Bronchiolar Adenoma
    - Alveolar Epith Hyperplasia Focal, Mild
  - [ Alveolar/Bronchiolar Adenoma TGLs = 4-10 ]
  - Lymph Node Pancreatic Hyperplasia Lymphoid, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 508

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-508

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-6 ]

\* Parathyroid Gland

Cyst

Note: One parathyroid gland examined.

\* Preputial Gland

Infiltration Cellular

Lymphocyte, Mild

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Hyperplasia

Lymphoid, Mild

\* Thymus

Cyst

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 509

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-509

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

\* Seminal Vesicle

\* Skin

[ Inflammation TGLs = 1-19 ]

Bilateral

Subcut Tiss

Infiltration Cellular

Dilation

Inflammation

Lymphocyte, Mild

Moderate

Granulomatous, Marked

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 511

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                           |                             |
|-----------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                    | * Bone Marrow               |
| * Brain                     | * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 |
| * Eye                       | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric    | * Nose                      | * Pancreas                | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate                | * Seminal Vesicle           |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                    | * Thymus                    |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder         |                             |

MISSING

- |                          |                 |                    |
|--------------------------|-----------------|--------------------|
| * Lymph Node, Mandibular | * Mammary Gland | * Nerve Trigeminal |
|--------------------------|-----------------|--------------------|

OBSERVATIONS

- |                                       |                 |                                                                      |                       |
|---------------------------------------|-----------------|----------------------------------------------------------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular     | Hyperplasia                                                          | Mild                  |
| * Kidney                              | Interstitial    | Infiltration Cellular                                                | Lymphocyte, Mild      |
|                                       |                 | Nephropathy                                                          | Chronicprogr, Minimal |
| * Liver                               |                 | Clear Cell Focus                                                     |                       |
|                                       |                 | Hepatocellular Adenoma                                               | Multiple              |
|                                       |                 | [ Clear Cell Focus TGLs = 7-12 ]                                     |                       |
|                                       |                 | [ Hepatocellular Adenoma TGLs = 2-19, 4-19, 1-12, 3-12, 5-12, 6-12 ] |                       |
| * Parathyroid Gland                   |                 |                                                                      |                       |
| Note: One parathyroid gland examined. |                 |                                                                      |                       |
| * Pituitary Gland                     |                 |                                                                      |                       |
| Note: Pars distalis examined          |                 |                                                                      |                       |
| * Preputial Gland                     | Bilateral, Duct | Dilation                                                             | Mild                  |
|                                       |                 | Infiltration Cellular                                                | Lymphocyte, Mild      |
| * Salivary Glands                     |                 | Infiltration Cellular                                                | Lymphocyte, Minimal   |

Animal Note: TGL 8 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 512

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Nerve Trigeminal          | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Seminal Vesicle           | * Skeletal Muscle         | * Skin                      | * Spleen                 |
| * Stomach, Forestomach      | * Stomach, Glandular      | Testis                      | * Thymus                 |
| * Thyroid Gland             | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                          |                                        |                        |                       |
|--------------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex         | Subcapsular                            | Hyperplasia            | Mild                  |
| * Brain                  |                                        | Mineral                | Mild                  |
| * Kidney                 | Interstitium                           | Infiltration Cellular  | Lymphocyte, Minimal   |
|                          |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver                  |                                        | Fatty Change           | Mild                  |
|                          |                                        | Hepatocellular Adenoma |                       |
|                          | [ Hepatocellular Adenoma TGLs = 1-19 ] |                        |                       |
| * Lymph Node, Mesenteric |                                        | Hemorrhage             | Minimal               |
| * Parathyroid GI         |                                        |                        |                       |
|                          | Note: One parathyroid gland examined.  |                        |                       |
| * Salivary Glands        |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Spinal Cord            |                                        | Cyst                   | Squamous              |

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 513

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Nose
- \* Prostate
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Lung
- \* Pancreas
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Nerve Trigeminal
- \* Preputial Gland
- \* Skin
- Testis

MISSING

- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Minimal
- \* Harderian Gland                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Heart                                              Myocardium                                      Mineral                                      Minimal
- \* Islets, Pancreatic                                      Hyperplasia                                      Minimal
- \* Kidney                                              Infarct                                              Minimal
- Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                                                                              Hemangiosarcoma                                      Moderate
- Necrosis
- [ Hemangiosarcoma    TGLs = 3-12 ]
- [ Necrosis    TGLs = 4-12 ]
- Mesentery                                              Fat                                              Necrosis                                      Moderate
- [ Necrosis    TGLs = 6-6 ]
- \* Peripheral Nerve, Sciatic                                      Axon                                              Degeneration                                      Minimal
- \* Salivary Glands                                              Infiltration Cellular                                      Lymphocyte, Minimal
- \* Spleen                                                                                              Extramedullary Hematopoiesis                      Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 513

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-513

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH - Liver Hemangiosarcoma

---

Animal Note: TGLs 1 & 2 = NCL; TGL 5 = NST

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 514

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-514

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 4 = NCL

---







**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 516

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-516

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One preputial gland examined.

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 518

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-518

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Cyst

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 520

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-520

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 521

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-521

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One thyroid gland examined.

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 523

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain                    | * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Lung                      | * Nerve Trigeminal       |
| * Nose                     | * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Prostate                 | * Seminal Vesicle           | * Skeletal Muscle           | * Skin                   |
| * Spinal Cord              | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| Testis                     | * Thymus                    | * Thyroid Gland             | * Trachea                |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- |                          |                                        |                        |                       |
|--------------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex         |                                        | Hyperplasia            | Focal, Mild           |
|                          | Subcapsular                            | Hyperplasia            | Minimal               |
| * Epididymis             |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Kidney                 |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver                  |                                        | Hepatoblastoma         | Multiple              |
|                          |                                        | Hepatocellular Adenoma |                       |
|                          | [ Hepatoblastoma TGLs = 4-12, 5-12 ]   |                        |                       |
|                          | [ Hepatocellular Adenoma TGLs = 3-12 ] |                        |                       |
| * Lymph Node, Mesenteric |                                        | Infiltration Cellular  | Plasma Cell, Marked   |
|                          | [ Infiltration Cellular TGLs = 1-15 ]  |                        |                       |
| Mesentery                | Fat                                    | Mineral                | Mild                  |
|                          | Fat                                    | Necrosis               | Moderate              |
| * Parathyroid Gland      |                                        | Cyst                   |                       |
|                          | Note: One parathyroid gland examined.  |                        |                       |
| * Preputial Gland        |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Salivary Glands        |                                        | Infiltration Cellular  | Lymphocyte, Mild      |
| * Urinary Bladder        |                                        | Infiltration Cellular  | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 524

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Trachea
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Spinal Cord
- Testis

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Eye                                      Phthisis Bulbi
- [ Phthisis Bulbi    TGLs = 5-5 ]
- \* Harderian Gland                              Adenoma
- [ Adenoma    TGLs = 6-5 ]
- \* Kidney                                      Interstitium                      Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                      Chronicprogr, Minimal
- \* Liver                                              Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 3-19, 4-12, 7-12 ]
- \* Preputial GI
- Note: One preputial gland examined.
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Skin                                              Ulcer                                      Moderate
- [ Ulcer    TGLs = 1-20, 2-21 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 524

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-524

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Infiltration Cellular

Lymphocyte, Minimal

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 631

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Seminal Vesicle         |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord              | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                     | * Thymus                  |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder          |                           |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                   |                                                    |                                |                       |
|-------------------|----------------------------------------------------|--------------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                                        | Hyperplasia                    | Mild                  |
| * Brain           |                                                    | Mineral                        | Mild                  |
| * Epididymis      |                                                    | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Harderian Gland |                                                    | Infiltration Cellular          | Lymphocyte, Mild      |
| * Kidney          |                                                    | Nephropathy                    | Chronicprogr, Minimal |
| * Liver           |                                                    | Hepatocellular Adenoma         | Multiple              |
|                   | [ Hepatocellular Adenoma TGLs = 1-12, 2-12, 3-12 ] |                                |                       |
| * Lung            |                                                    | Alveolar/Bronchiolar Carcinoma |                       |
|                   | [ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ]     |                                |                       |
| * Preputial Gland |                                                    | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Prostate        |                                                    | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Salivary Glands |                                                    | Infiltration Cellular          | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 633

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Seminal Vesicle           | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                            |              |                       |                          |
|--------------------------------------------|--------------|-----------------------|--------------------------|
| * Adrenal Cortex                           | Subcapsular  | Hyperplasia           | Mild                     |
|                                            |              | Infiltration Cellular | Mononuclear CI, Moderate |
| * Brain                                    |              | Mineral               | Mild                     |
| * Epididymis                               |              | Infiltration Cellular | Lymphocyte, Minimal      |
| * Kidney                                   | Interstitium | Infiltration Cellular | Lymphocyte, Minimal      |
| * Liver                                    |              | Fatty Change          | Mild                     |
| * Parathyroid Gland                        |              |                       |                          |
| Note: One parathyroid gland was evaluated. |              |                       |                          |
| * Salivary Glands                          |              | Infiltration Cellular | Lymphocyte, Mild         |
| * Urinary Bladder                          |              | Infiltration Cellular | Lymphocyte, Mild         |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 538

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Ileum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Brain Mineral Minimal
- \* Harderian Gland Infiltration Cellular Lymphocyte, Mild
- \* Kidney Nephropathy Chronicprogr, Moderate
- [ Nephropathy TGLs = 1-13, 5-13 ]
- \* Liver Hepatocellular Carcinoma
- [ Hepatocellular Carcinoma TGLs = 3-12 ]
- \* Lung Hepatocellular Carcinoma Metastatic (Liver)
- \* Lymph Node, Mesenteric Erythrophagocytosis Moderate
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Preputial Gland Duct Dilation Moderate
- [ Dilation TGLs = 2-16 ]
- \* Salivary Glands Infiltration Cellular Lymphocyte, Minimal
- \* Thyroid GI
- Note: One thyroid gland examined.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 635

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 538

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-635

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 636

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-636

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 637

TRT#: 7

SEX: Male

DAY ON TEST: 464

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                             |                             |
|--------------------------|----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Aorta                     | * Bone                      |
| * Bone Marrow            | * Brain                    | * Brain Trigeminal Ganglion | * Epididymis                |
| * Esophagus              | * Eye                      | * Gallbladder               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Nerve Trigeminal          |
| * Nose                   | * Pancreas                 | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland        | * Preputial Gland          | * Salivary Glands           | * Seminal Vesicle           |
| * Skeletal Muscle        | * Skin                     | * Spinal Cord               | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | Testis                      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                             |                             |

MISSING

- |                 |            |
|-----------------|------------|
| * Mammary Gland | * Prostate |
|-----------------|------------|

OBSERVATIONS

- |                               |                       |                  |
|-------------------------------|-----------------------|------------------|
| * Harderian Gland             | Infiltration Cellular | Lymphocyte, Mild |
| * Liver                       | Necrosis              | Mild             |
| * Pituitary Gland             |                       |                  |
| Note: Pars distalis examined. |                       |                  |
| * Thymus                      | Atrophy               | Moderate         |
| [ Atrophy TGLs = 1-6 ]        |                       |                  |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 638

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-638

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                              Granuloma Sperm                      Mild
- Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                              Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                              Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                              Fatty Change                              Mild
- Hepatocellular Adenoma                      Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 2-12, 3-19 ]
- Mesentery                                      Fat                                              Necrosis                                      Moderate
- [ Necrosis    TGLs = 1-6 ]
- \* Parathyroid GI                              Note: One parathyroid gland examined.
- \* Preputial Gland                              Infiltration Cellular                      Lymphocyte, Mild
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Mild
- \* Seminal Vesicle                              Dilatation                                      Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 639

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-639

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 640

TRT#: 7

SEX: Male

DAY ON TEST: 690

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular
- \* Nose
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Marked
- \* Brain
- Mineral
- Mild
- \* Harderian Gland
- Infiltration Cellular
- Lymphocyte, Minimal
- \* Heart
- Artery
- Inflammation
- Chronic Active, Minimal
- \* Islets, Pancreatic
- Atrophy
- Marked
- \* Kidney
- Nephropathy
- Chronicprogr, Minimal
- [ Nephropathy TGLs = 5-13 ]
- Lymph Node
- Bronchial
- Infiltration Cellular
- Mixed Cell, Moderate
- [ Infiltration Cellular TGLs = 2-10 ]
- \* Lymph Node, Mesenteric
- Lymphoma Malignant
- Inflammation
- Chronic Active, Moderate
- Mesentery
- Artery
- Lymphoma Malignant
- [ Inflammation TGLs = 8-16 ]
- [ Lymphoma Malignant TGLs = 1-20 ]
- \* Pancreas
- Infiltration Cellular
- Mixed Cell, Moderate
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Preputial Gland
- Duct
- Dilation
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 640

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 690

**DOSE:** 10 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-640

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 3-21 ]

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 4-12 ]

\* Thymus

Atrophy

Moderate

Infiltration Cellular

Histiocyte, Moderate

---

PRIMARY CAUSE OF DEATH

- Mesentery Artery Inflammation

---









**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 643

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 689

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-643

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 1 = NCL

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 644

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-644

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

---

Animal Note: TGL 1 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Stomach, Glandular

OBSERVATIONS

- \* Brain
- \* Kidney
- \* Liver
- [ Hepatocellular Carcinoma TGLs = 4-19 ]
- \* Lung
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland
- [ Dilation TGLs = 5-16 ]
- \* Salivary Glands
- \* Seminal Vesicle
- [ Dilation TGLs = 1-16 ]

- Mineral
- Mineral
- Hepatocellular Carcinoma
- Hepatocellular Carcinoma
- Hemorrhage
- Dilation
- Infiltration Cellular
- Dilation
- Mild
- Mild
- Metastatic (Liver)
- Moderate
- Mild
- Lymphocyte, Mild
- Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 646

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                    | * Bone                    | * Bone Marrow               |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skeletal Muscle          | * Skin                    | * Spinal Cord               |
| * Stomach, Forestomach   | * Stomach, Glandular       | Testis                    | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- |                             |               |
|-----------------------------|---------------|
| * Brain Trigeminal Ganglion | * Gallbladder |
|-----------------------------|---------------|

OBSERVATIONS

- |                  |                                          |                              |                       |
|------------------|------------------------------------------|------------------------------|-----------------------|
| * Adrenal Cortex | Subcapsular                              | Hyperplasia                  | Mild                  |
| * Brain          |                                          | Mineral                      | Mild                  |
| * Epididymis     |                                          | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Kidney         | Renal Tubule<br>Interstitialium          | Cyst                         |                       |
|                  |                                          | Infiltration Cellular        | Lymphocyte, Minimal   |
|                  |                                          | Nephropathy                  | Chronicprogr, Minimal |
| * Liver          |                                          | Hepatocellular Adenoma       |                       |
|                  |                                          | Hepatocellular Carcinoma     |                       |
|                  | [ Hepatocellular Adenoma TGLs = 2-12 ]   |                              |                       |
|                  | [ Hepatocellular Carcinoma TGLs = 1-12 ] |                              |                       |
| * Spleen         |                                          | Extramedullary Hematopoiesis | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 647

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Preputial Gland        | * Seminal Vesicle          |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   | * Thymus                   |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                   |                                       |                                                                |                       |
|-------------------|---------------------------------------|----------------------------------------------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                           | Hyperplasia                                                    | Mild                  |
| * Brain           |                                       | Mineral                                                        | Mild                  |
| * Harderian Gland |                                       | Infiltration Cellular                                          | Lymphocyte, Minimal   |
| * Kidney          | Interstitium                          | Infiltration Cellular                                          | Lymphocyte, Minimal   |
|                   |                                       | Nephropathy                                                    | Chronicprogr, Minimal |
| * Liver           |                                       | Clear Cell Focus                                               |                       |
|                   |                                       | Hepatocellular Adenoma                                         | Multiple              |
|                   |                                       | [ Clear Cell Focus TGLs = 5-12 ]                               |                       |
|                   |                                       | [ Hepatocellular Adenoma TGLs = 1-19, 2-12, 3-12, 4-12, 8-20 ] |                       |
| * Parathyroid GI  |                                       |                                                                |                       |
|                   | Note: One parathyroid gland examined. |                                                                |                       |
| * Prostate        |                                       | Infiltration Cellular                                          | Lymphocyte, Mild      |
| * Salivary Glands |                                       | Infiltration Cellular                                          | Lymphocyte, Mild      |
| Tooth             |                                       | Dysplasia                                                      | Mild                  |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 648

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-648

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGLs 1 & 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 651

TRT#: 7

SEX: Male

DAY ON TEST: 672

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-651

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Alveolar/Bronchiolar Carcinoma Congestion	Moderate
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ] [ Congestion TGLs = 10-10 ]		
* Parathyroid Gland			
	Note: One parathyroid gland examined.		
* Prostate		Inflammation	Acute, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
	[ Dilation TGLs = 3-16 ]		
* Thymus		Atrophy Cyst	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGLs 2 & 5 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 652

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Preputial Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                              Chronicprogr, Minimal
- \* Liver                                      Clear Cell Focus                              Fatty Change                              Moderate
- [ Clear Cell Focus    TGLs = 2-12 ]
- [ Fatty Change      TGLs = 1-12 ]
- \* Lung                                      Alveolar/Bronchiolar Carcinoma                      Hemorrhage                              Mild
- [ Alveolar/Bronchiolar Carcinoma    TGLs = 3-10 ]
- [ Hemorrhage      TGLs = 4-10 ]
- \* Prostate                                      Infiltration Cellular                              Lymphocyte, Minimal
- \* Salivary Glands                              Infiltration Cellular                              Lymphocyte, Mild
- \* Skeletal Muscle                              Infiltration Cellular                              Lymphocyte, Mild
- \* Thymus                                      Cyst

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 654

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Salivary Glands        | * Seminal Vesicle           |
| * Skin                      | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| Testis                      | * Thyroid Gland             | * Trachea                | * Urinary Bladder           |

MISSING

- |                 |          |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

- |                   |                                              |                              |                     |
|-------------------|----------------------------------------------|------------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                                  | Hyperplasia                  | Mild                |
| * Brain           |                                              | Mineral                      | Mild                |
| * Epididymis      |                                              | Spermatocele                 | Mild                |
| * Kidney          | Interstitium                                 | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver           |                                              | Hepatocellular Adenoma       | Multiple            |
|                   | [ Hepatocellular Adenoma TGLs = 2-12 ]       |                              |                     |
| * Lung            |                                              | Alveolar/Bronchiolar Adenoma |                     |
|                   | [ Alveolar/Bronchiolar Adenoma TGLs = 1-10 ] |                              |                     |
| * Parathyroid GI  |                                              |                              |                     |
|                   | Note: One parathyroid gland examined.        |                              |                     |
| * Preputial Gland |                                              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Skeletal Muscle |                                              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Spinal Cord     |                                              | Necrosis                     | Minimal             |
| * Thyroid GI      |                                              |                              |                     |
|                   | Note: One thyroid gland examined.            |                              |                     |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 657

TRT#: 7

SEX: Male

DAY ON TEST: 616

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                   |                          |
|---------------------------|-----------------------------|-------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Aorta           | * Bone                   |
| * Bone Marrow             | * Brain Trigeminal Ganglion | * Epididymis      | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Heart           | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Islets, Pancreatic        | * Kidney          | * Lung                   |
| * Lymph Node, Mandibular  | * Nerve Trigeminal          | * Nose            | * Pancreas               |
| * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Pituitary Gland | * Preputial Gland        |
| * Prostate                | * Salivary Glands           | * Skeletal Muscle | * Skin                   |
| * Spinal Cord             | * Stomach, Glandular        | Testis            | * Thymus                 |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder |                          |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mesenteric | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder              | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Spleen                 | * Stomach, Forestomach      |                          |

OBSERVATIONS

- |                                       |            |                        |             |
|---------------------------------------|------------|------------------------|-------------|
| * Brain                               |            | Mineral                | Minimal     |
| * Liver                               |            | Fatty Change           | Minimal     |
|                                       | Hepatocyte | Fatty Change           | Focal, Mild |
|                                       |            | Hepatocellular Adenoma |             |
| * Parathyroid GI                      |            |                        |             |
| Note: One parathyroid gland examined. |            |                        |             |
| * Pituitary GI                        |            |                        |             |
| Note: Pars distalis examined.         |            |                        |             |
| * Seminal Vesicle                     | Bilateral  | Dilation               | Mild        |
| [ Dilation TGLs = 2-16 ]              |            |                        |             |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 658

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Adrenal Medulla
- \* Mammary Gland

OBSERVATIONS

- \* Brain
- \* Harderian Gland
- \* Kidney
- \* Liver
- [ Clear Cell Focus TGLs = 3-12, 5-19 ]
- [ Hepatocellular Adenoma TGLs = 3-12, 4-19 ]
- [ Hepatocellular Carcinoma TGLs = 2-19 ]
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Thymus
- Tooth
- \* Urinary Bladder
- Interstitialium
- Bilateral
- Mineral
- Infiltration Cellular
- Infiltration Cellular
- Nephropathy
- Clear Cell Focus
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Infiltration Cellular
- Infiltration Cellular
- Dilation
- Cyst
- Dysplasia
- Infiltration Cellular
- Mild
- Lymphocyte, Minimal
- Lymphocyte, Minimal
- Chronicprogr, Minimal
- Multiple
- Lymphocyte, Minimal
- Lymphocyte, Mild
- Moderate
- Mild
- Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 659

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-659

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 660

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- Testis
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Aorta
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                              Mineral                                              Mild
- \* Epididymis                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Harderian Gland                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                              Nephropathy                                              Chronicprogr, Minimal
- \* Liver                                              Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 4-12 ]
- \* Lymph Node, Mesenteric                                              Hemorrhage                                              Mild
- \* Salivary Glands                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Seminal Vesicle                                              Bilateral                                              Dilatation                                              Mild
- \* Skin                                              Subcut Tiss                                              Malignant Fibrous Histiocytoma
- [ Malignant Fibrous Histiocytoma    TGLs = 1-19 ]
- \* Spleen                                              Extramedullary Hematopoiesis                      Minimal
- [ Extramedullary Hematopoiesis    TGLs = 3-12 ]
- \* Urinary Bladder                                              Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

**ANIMAL ID:** 661

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-661

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                             |                             |                          |
|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                   |
| * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                  | * Salivary Glands           | * Seminal Vesicle           | * Skeletal Muscle        |
| * Skin                      | * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular        | Testis                      | * Thymus                    | * Thyroid Gland          |
| * Trachea                   | * Urinary Bladder           |                             |                          |

**MISSING**

- |                 |                     |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

**OBSERVATIONS**

- |                  |             |             |                       |
|------------------|-------------|-------------|-----------------------|
| * Adrenal Cortex | Subcapsular | Hyperplasia | Minimal               |
| * Brain          |             | Mineral     | Minimal               |
| * Kidney         |             | Nephropathy | Chronicprogr, Minimal |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 663

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-663

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Seminal Vesicle

Bilateral

Dilation

Moderate

\* Spinal Cord

Artery, Meninges

Inflammation

Chronic Active, Minimal

\* Spleen

Extramedullary Hematopoiesis

Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 664

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Brain
  - \* Eye
    - [ Inflammation TGLs = 1-5 ]
  - \* Harderian Gland
    - [ Adenoma TGLs = 5-5 ]
  - \* Kidney
    - Cornea
    - Interstitialium
  - \* Liver
    - [ Clear Cell Focus TGLs = 2-12 ]
    - [ Hepatocellular Adenoma TGLs = 2-12 ]
  - \* Lung
    - [ Alveolar/Bronchiolar Carcinoma TGLs = 3-10, 4-10 ]
  - \* Preputial Gland
  - \* Salivary Glands
  - Tooth
- |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Mineral</li> <li>Inflammation</li> <li>Adenoma</li> <li>Infiltration Cellular</li> <li>Nephropathy</li> <li>Clear Cell Focus</li> <li>Hepatocellular Adenoma</li> <li>Alveolar/Bronchiolar Carcinoma</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Dysplasia</li> <li>Inflammation</li> </ul> | <ul style="list-style-type: none"> <li>Minimal</li> <li>Chronic Active, Mild</li> <li>Lymphocyte, Minimal</li> <li>Chronicprogr, Minimal</li> <li>Multiple</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Moderate</li> <li>Chronic Active, Moderate</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 664

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-664

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 6 = NCL

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**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 665

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-665

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain	* Brain Trigeminal Ganglion	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Nerve Trigeminal	* Parathyroid Gland
--------------------------	-----------------	--------------------	---------------------

**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Necrosis	Mild
[ Hepatocellular Adenoma TGLs = 5-12 ]			
* Preputial Gland		Infiltration Cellular	Lymphocyte, Mild
* Prostate		Inflammation	Acute, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
[ Dilation TGLs = 1-16 ]			
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 666

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Brain Trigeminal Ganglion
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Lymph Node, Mandibular	* Nose	* Peripheral Nerve, Sciatic
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	Testis
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Islets, Pancreatic	* Mammary Gland	* Nerve Trigeminal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Thymus	

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Forestomach	* Stomach, Glandular

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Mineral	Mild
* Gallbladder		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 3-12 ]		
* Lung		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 4-12 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 1-12, 2-12 ]		

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

Animal Note: TGLs 5 & 6 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 667

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Nerve Trigeminal          |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Seminal Vesicle           |
| * Skeletal Muscle           | * Skin                   | * Spinal Cord              | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | Testis                     | * Thymus                    |
| * Thyroid Gland             | * Trachea                |                            |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                     |                                       |                        |                       |
|---------------------|---------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex    | Subcapsular                           | Hyperplasia            | Mild                  |
| * Brain             |                                       | Mineral                | Mild                  |
| * Epididymis        |                                       | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Harderian Gland   |                                       | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Kidney            | Interstitium                          | Infiltration Cellular  | Lymphocyte, Minimal   |
|                     |                                       | Nephropathy            | Chronicprogr, Minimal |
| * Liver             |                                       | Clear Cell Focus       |                       |
|                     |                                       | Hepatocellular Adenoma |                       |
|                     |                                       | Mixed Cell Focus       |                       |
|                     | [ Mixed Cell Focus TGLs = 1-12 ]      |                        |                       |
| * Parathyroid Gland | Note: One parathyroid gland examined. |                        |                       |
| * Salivary Glands   |                                       | Infiltration Cellular  | Lymphocyte, Minimal   |
| * Urinary Bladder   |                                       | Infiltration Cellular  | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 668

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Nerve Trigeminal
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Preputial Gland
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Testis
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Brain Mineral Mild
- Coagulating Gland Histiocytic Sarcoma
- \* Gallbladder Histiocytic Sarcoma
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild
- Nephropathy Chronicprogr, Minimal
- \* Liver Histiocytic Sarcoma
- [ Histiocytic Sarcoma TGLs = 2-12, 3-12 ]
- \* Lymph Node, Mesenteric Histiocytic Sarcoma
- [ Histiocytic Sarcoma TGLs = 1-15 ]
- Mesentery Histiocytic Sarcoma
- [ Histiocytic Sarcoma TGLs = 1-19 ]
- \* Pancreas Histiocytic Sarcoma
- \* Prostate Infiltration Cellular Lymphocyte, Mild
- \* Salivary Glands Infiltration Cellular Lymphocyte, Minimal
- \* Seminal Vesicle Histiocytic Sarcoma
- \* Spleen Extramedullary Hematopoiesis Mild
- Histiocytic Sarcoma
- \* Stomach, Forestomach Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 668

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-668

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Histiocytic Sarcoma TGLs = 5-14 ]		
* Stomach, Glandular	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLs = 5-14 ]		
* Thymus	Atrophy	Moderate
Tooth	Dysplasia	Mild
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

---

Animal Note: TGL 4 = NCL

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Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 672

TRT#: 7

SEX: Male

DAY ON TEST: 625

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                  | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Preputial Gland           | * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular        | Testis                      | * Thyroid Gland             | * Trachea                  |
| * Urinary Bladder           |                             |                             |                            |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                                                |                                |                     |
|-------------------|------------------------------------------------|--------------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                                    | Hyperplasia                    | Mild                |
| * Brain           |                                                | Mineral                        | Minimal             |
| * Heart           |                                                | Cardiomyopathy                 | Minimal             |
|                   | Myocardium                                     | Mineral                        | Minimal             |
|                   |                                                | Thrombus                       | Mild                |
| * Kidney          |                                                | Nephropathy                    | Chronicprogr, Mild  |
| * Liver           |                                                | Fatty Change                   | Mild                |
|                   |                                                | Necrosis                       | Mild                |
| * Lung            |                                                | Alveolar/Bronchiolar Carcinoma |                     |
|                   | [ Alveolar/Bronchiolar Carcinoma TGLs = 4-10 ] |                                |                     |
| * Salivary Glands |                                                | Infiltration Cellular          | Lymphocyte, Minimal |
| * Thymus          |                                                | Atrophy                        | Marked              |

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 673

TRT#: 7

SEX: Male

DAY ON TEST: 614

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Aorta	* Bone
* Bone Marrow	* Brain	* Brain Trigeminal Ganglion	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nerve Trigeminal	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Glandular
Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Heart	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[ Alveolar/Bronchiolar Carcinoma TGLs = 6-11 ]		
* Islets, Pancreatic	Adenoma	
	Hyperplasia	Moderate
* Kidney	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Nephropathy	Chronic progr, Mild
[ Alveolar/Bronchiolar Carcinoma TGLs = 4-19 ]		
* Liver	Fatty Change	Mild
	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLs = 5-12 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 7-10 ]		
* Parathyroid GI		
Note: One parathyroid gland examined.		
* Pituitary GI		
Note: Pars distalis examined.		
* Prostate	Inflammation	Acute, Minimal
* Salivary Glands	Infiltration Cellular	Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 673

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 614

**DOSE:** 10 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-673

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Seminal Vesicle [ Dilation TGLs = 2-16 ]	Bilateral	Dilation	Mild
* Stomach, Forestomach	Epithelium	Hyperkeratosis Hyperplasia	Moderate Diffuse, Mild

---

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 675

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Mammary Gland
- \* Prostate
- \* Thymus

OBSERVATIONS

- \* Brain
- Mineral
- Mild
- \* Harderian Gland
- Infiltration Cellular
- Lymphocyte, Minimal
- \* Islets Panc
- Note: Pancreas (islets) on slide #14.
- \* Kidney
- Interstitial
- Infiltration Cellular
- Nephropathy
- Lymphocyte, Minimal
- \* Liver
- Hepatocellular Adenoma
- Chronicprogr, Minimal
- Hepatocellular Carcinoma
- Multiple
- [ Hepatocellular Carcinoma TGLs = 2-6, 3-12, 4-19 ]
- \* Lymph Node, Mesenteric
- Hemorrhage
- Minimal
- \* Pancreas
- Note: Pancreas tissue on slide #14.
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Preputial Gland
- Infiltration Cellular
- Lymphocyte, Minimal
- \* Salivary Glands
- Infiltration Cellular
- Lymphocyte, Minimal
- \* Spleen
- Extramedullary Hematopoiesis
- Moderate
- [ Extramedullary Hematopoiesis TGLs = 1-12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 675

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-675

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---







**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 677

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-677

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Mild

---

Animal Note: TGLS 4-6 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 678

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Aorta
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Skin
- Testis
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Prostate
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland
- \* Salivary Glands

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Brain Mineral Minimal
- \* Harderian Gland Adenoma
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Minimal
- Nephropathy Chronicprogr, Minimal
- \* Liver Clear Cell Focus
- Fatty Change Mild
- Hepatocellular Adenoma Multiple
- Hepatocellular Carcinoma
- [ Clear Cell Focus TGLs = 5-20, 7-20 ]
- [ Hepatocellular Adenoma TGLs = 2-12, 3-19, 4-12, 8-20 ]
- \* Peripheral Nerve, Sciatic Axon Degeneration Minimal
- \* Preputial Gland Infiltration Cellular Lymphocyte, Minimal
- \* Seminal Vesicle Bilateral Dilation Mild
- \* Spleen Extramedullary Hematopoiesis Mild
- [ Extramedullary Hematopoiesis TGLs = 1-12 ]
- \* Thymus Cyst

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 678

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-678

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Urothelium

Papilloma

---

Animal Note: TGL 6 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 679

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Aorta                     | * Bone                    |
| * Bone Marrow               | * Esophagus              | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Mammary Gland          | * Nerve Trigeminal          | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle           | * Skeletal Muscle         |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      |
| Testis                      | * Thyroid Gland          | * Trachea                   | * Urinary Bladder         |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                          |                                      |                              |                       |
|--------------------------|--------------------------------------|------------------------------|-----------------------|
| * Brain                  |                                      | Mineral                      | Mild                  |
| * Epididymis             |                                      | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Harderian Gland        |                                      | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Kidney                 |                                      | Nephropathy                  | Chronicprogr, Minimal |
| * Liver                  |                                      | Clear Cell Focus             |                       |
|                          |                                      | Fatty Change                 | Mild                  |
|                          | [ Clear Cell Focus TGLs = 1-12.1RC ] |                              |                       |
| * Lung                   |                                      | Alveolar/Bronchiolar Adenoma |                       |
|                          |                                      | Hemorrhage                   | Mild                  |
|                          | Alveolar Epith                       | Hyperplasia                  | Focal, Mild           |
| * Lymph Node, Mesenteric |                                      | Hemorrhage                   | Minimal               |
| * Preputial Gland        |                                      | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Skin                   |                                      | Hemangioma                   |                       |
|                          | Subcut Tiss                          |                              |                       |
|                          | [ Hemangioma TGLs = 2-11 ]           |                              |                       |
| * Thymus                 |                                      | Cyst                         |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 680

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Preputial Gland           | * Seminal Vesicle           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| Testis                      | * Thymus                    | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder           |                             |                          |                             |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mesenteric | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- |                   |                                          |                          |                       |
|-------------------|------------------------------------------|--------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                              | Hyperplasia              | Mild                  |
|                   |                                          | Hyperplasia              | Focal, Mild           |
| * Brain           |                                          | Mineral                  | Minimal               |
| * Harderian Gland |                                          | Infiltration Cellular    | Lymphocyte, Minimal   |
| * Kidney          |                                          | Nephropathy              | Chronicprogr, Minimal |
| * Liver           |                                          | Hepatocellular Carcinoma |                       |
|                   | [ Hepatocellular Carcinoma TGLs = 3-12 ] |                          |                       |
| Mesentery         | Fat                                      | Necrosis                 | Mild                  |
|                   | [ Necrosis TGLs = 2-6 ]                  |                          |                       |
| * Pituitary Gland | Pars Distalis                            | Cyst                     |                       |
| * Prostate        |                                          | Hyperplasia              | Focal, Mild           |
| * Salivary Glands |                                          | Infiltration Cellular    | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 682

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-682

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Skeletal Muscle

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Extramedullary Hematopoiesis

Mild

\* Thyroid Gland

Infiltration Cellular

Lymphocyte, Minimal

---

Animal Note: TGLs 1, 2, & 4 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 684

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Nephropathy                              Chronicprogr, Minimal
- \* Liver                                      Clear Cell Focus
- Fatty Change                                      Mild
- Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 1-19, 2-12 ]
- \* Lung                                      Alveolar/Bronchiolar Adenoma
- Alveolar Epith                                      Hyperplasia                                      Focal, Mild
- \* Parathyroid Gl
- Note: One parathyroid gland examined.
- \* Prostate                                      Infiltration Cellular                      Lymphocyte, Minimal
- Tooth                                      Dysplasia                                      Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 686

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Heart                                      Alveolar/Bronchiolar Carcinoma                      Metastatic (Lung)
- \* Kidney                                      Infarct                                      Minimal
- Nephropathy                                      Chronicprogr, Mild
- \* Liver                                      Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 1-12, 3-12 ]
- \* Lung                                      Alveolar/Bronchiolar Carcinoma
- Infiltration Cellular                      Histiocyte, Moderate
- [ Alveolar/Bronchiolar Carcinoma    TGLs = 4-10 ]
- \* Lymph Node, Mesenteric                      Hemorrhage                      Mild
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Preputial Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 688

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 674

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-688

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: One thyroid gland examined.

---

**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

---

Animal Note: TGLs 1, 4, & 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 689

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis

MISSING

- \* Mammary Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                                      Fatty Change                                      Mild
- [ Clear Cell Focus    TGLs = 2-12 ]
- [ Fatty Change      TGLs = 1-12 ]
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Urinary Bladder                                      Infiltration Cellular                                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 690

TRT#: 7

SEX: Male

DAY ON TEST: 352

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                      |                             |                             |                    |
|----------------------|-----------------------------|-----------------------------|--------------------|
| * Adrenal Cortex     | * Adrenal Medulla           | * Aorta                     | * Bone             |
| * Bone Marrow        | * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus        |
| * Eye                | * Gallbladder               | * Harderian Gland           | * Heart            |
| * Islets, Pancreatic | * Kidney                    | * Mammary Gland             | * Nerve Trigeminal |
| * Nose               | * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland  |
| * Preputial Gland    | * Prostate                  | * Salivary Glands           | * Seminal Vesicle  |
| * Skeletal Muscle    | * Skin                      | * Spinal Cord               | * Spleen           |
| Testis               | * Thyroid Gland             | * Trachea                   | * Urinary Bladder  |

MISSING

- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Stomach, Glandular      |                             |

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                                     |                |          |
|-----------------------------------------------------|----------------|----------|
| * Adren Medulla                                     |                |          |
| Note: One adrenal medulla available for evaluation. |                |          |
| * Brain                                             | Mineral        | Minimal  |
| * Gallbladder                                       |                |          |
| Note: Gallbladder is dialated. No lesions observed. |                |          |
| * Liver                                             | Fatty Change   | Minimal  |
| * Lung                                              | Congestion     | Moderate |
|                                                     | Hemorrhage     | Mild     |
| [ Congestion TGLs = 5-10 ]                          |                |          |
| [ Hemorrhage TGLs = 5-10 ]                          |                |          |
| * Lymph Node, Mesenteric                            | Hemorrhage     | Marked   |
| * Stomach, Forestomach                              | Hyperkeratosis | Mild     |
| * Thymus                                            | Atrophy        | Marked   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 690

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 352

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-690

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urin Bladder

Note: Bacterial colonies (TGL 4-12) were present in the dilated (TGL1-13) urinary bladder.

---

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

---

Animal Note: TGL 3 = NCL

Animal Note: TGL 2= NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 692

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Mild
- \* Epididymis                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                              Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Clear Cell Focus                                      Fatty Change                                      Mild
- [ Clear Cell Focus    TGLs = 1-12 ]
- \* Preputial Gland                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Salivary Glands                                      Infiltration Cellular                                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 693

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Prostate
- \* Spinal Cord
- Testis
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Seminal Vesicle
- \* Spleen
- \* Thymus

MISSING

- \* Adrenal Cortex
- \* Mammary Gland
- \* Adrenal Medulla
- \* Pituitary Gland
- \* Brain Trigeminal Ganglion
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Brain
- \* Epididymis
- \* Kidney
- \* Liver
- [ Hepatocellular Adenoma TGLs = 1-12, 2-12 ]
- \* Parathyroid Gland
  - Note: One parathyroid gland examined.
- \* Preputial Gland
- \* Salivary Glands
- \* Urinary Bladder
- Mineral
- Infiltration Cellular
- Infiltration Cellular
- Nephropathy
- Fatty Change
- Hepatocellular Adenoma
- Interstitial
- Minimal
- Lymphocyte, Mild
- Lymphocyte, Minimal
- Chronicprogr, Minimal
- Mild
- Multiple
- Infiltration Cellular
- Infiltration Cellular
- Infiltration Cellular
- Lymphocyte, Mild
- Lymphocyte, Minimal
- Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

ANIMAL ID: 694

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-694

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Pancreas		Inflammation	Chronic Active, Minimal
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Dilation	Moderate
[ Dilation TGLs = 1-16 ]			
* Stomach, Forestomach		Cyst	Squamous
* Stomach, Glandular		Cyst	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

---







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 697

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Salivary Glands
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Pituitary Gland
- \* Spinal Cord
- \* Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Nose
- \* Preputial Gland
- \* Spleen
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Prostate
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Adrenal Cortex
- \* Nerve Trigeminal
- \* Adrenal Medulla
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Pancreas

OBSERVATIONS

- \* Brain
  - \* Kidney
  - \* Liver
  - \* Lung
  - Lymph Node
  - \* Pancreas
  - \* Parathyroid GI
- [ Hepatocellular Adenoma TGLs = 4-21, 5-12 ]
- [ Alveolar/Bronchiolar Carcinoma TGLs = 14-10 ]
- [ Lymphoma Malignant TGLs = 8-23 ]
- Note: There is a tiny piece of pancreas attached to the pancreatic lymph node on slide #23.
- Note: One parathyroid gland examined.
- Renal Tubule
- Mineral  
Cyst  
Nephropathy  
Clear Cell Focus  
Hepatocellular Adenoma
- Alveolar/Bronchiolar Carcinoma
- Lymphoma Malignant
- Mild
- Chronicprogr, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 697

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-697

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [ Dilation TGLs = 2-16 ]	Bilateral	Dilation	Mild
* Skeletal Muscle		Degeneration Inflammation	Minimal Chronic Active, Mild
* Skin [ Malignant Fibrous Histiocytoma Tissue NOS	Subcut Tiss TGLs = 1-19 ]	Malignant Fibrous Histiocytoma Lymphoma Malignant	

Animal Note: TGLs 3, 6, 7, 9, 10, & 11 = NCL

Animal Note: TGL 13 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 698

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-698

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 700

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Nerve Trigeminal       | * Nose                     | * Pancreas                |
| * Peripheral Nerve, Sciatic | * Prostate               | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Stomach, Forestomach   | * Stomach, Glandular       | Testis                    |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- |                 |                     |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- |                          |                                |                               |                     |
|--------------------------|--------------------------------|-------------------------------|---------------------|
| * Adrenal Cortex         | Subcapsular                    | Hyperplasia                   | Minimal             |
| * Brain                  |                                | Mineral                       | Mild                |
| * Epididymis             |                                | Infiltration Cellular         | Lymphocyte, Minimal |
| * Harderian Gland        |                                | Infiltration Cellular         | Lymphocyte, Minimal |
| * Kidney                 | Renal Tubule                   | Accumulation, Hyaline Droplet | Mild                |
|                          | Bilateral, Renal Tubule        | Nephropathy                   | Chronicprogr, Mild  |
| * Liver                  |                                | Pigment                       | Moderate            |
|                          |                                | Hepatoblastoma                |                     |
|                          |                                | Infiltration Cellular         | Lymphocyte, Minimal |
|                          | [ Hepatoblastoma TGLs = 2-19 ] |                               |                     |
| * Lung                   |                                | Hepatoblastoma                | Metastatic (Liver)  |
|                          | Alveolar Epith                 | Hyperplasia                   | Focal, Minimal      |
| * Lymph Node, Mesenteric |                                | Infiltration Cellular         | Histiocyte, Mild    |
| * Pituitary Gland        | Pars Distalis                  | Cyst                          |                     |
| * Preputial Gland        | Duct                           | Dilation                      | Mild                |
|                          |                                | Infiltration Cellular         | Lymphocyte, Mild    |
| * Salivary Glands        |                                | Infiltration Cellular         | Lymphocyte, Mild    |
| * Seminal Vesicle        | Bilateral                      | Dilation                      | Mild                |
| * Spleen                 |                                | Extramedullary Hematopoiesis  | Mild                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 700

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-700

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Liver Hepatoblastoma

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 701

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland

MISSING

- \* Adrenal Medulla
- \* Lymph Node, Mandibular
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Brain
- \* Kidney
- \* Liver
- [ Fatty Change TGLs = 1-12 ]
- \* Lung
- \* Salivary Glands
- Tooth
- Subcapsular
- Hyperplasia
- Mineral
- Nephropathy
- Fatty Change
- Alveolar/Bronchiolar Adenoma
- Infiltration Cellular
- Dysplasia
- Mild
- Minimal
- Chronicprogr, Minimal
- Mild
- Lymphocyte, Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 702

TRT#: 7

SEX: Male

DAY ON TEST: 719

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-702

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hyperplasia TGLs = 8-20, 9-20 ]

\* Parathyroid Gland

Note: One parathyroid gland examined.

\* Salivary Glands

\* Seminal Vesicle

Bilateral

Infiltration Cellular

Dilation

Lymphocyte, Minimal

Mild

[ Dilation TGLs = 1-16 ]

PRIMARY CAUSE OF DEATH - Liver Carcinoma Islets, Pancreatic

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGLs 4-7 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 705

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Preputial Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Prostate
- \* Spleen
- \* Trachea
- \* Bone
- \* Heart
- \* Intestine Small, Duodenum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular

MISSING

- \* Brain Trigeminal Ganglion
- \* Mammary Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Bone Marrow Hypercellularity Mild
- \* Brain Mineral Minimal
- \* Epididymis Bilateral, Duct Atrophy Moderate
  - [ Atrophy TGLs = 9-16A ]
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Minimal
- Nephropathy Chronicprogr, Mild
- \* Liver Hepatocellular Adenoma Hepatocellular Carcinoma Multiple
  - [ Hepatocellular Adenoma TGLs = 6-12 ]
  - [ Hepatocellular Carcinoma TGLs = 4-12, 5-21 ]
- \* Lung Hepatocellular Carcinoma Metastatic (Liver)
- \* Lymph Node, Mandibular Infiltration Cellular Histiocyte, Mild
- \* Lymph Node, Mesenteric Infiltration Cellular Histiocyte, Mild
- \* Seminal Vesicle Bilateral Atrophy Moderate
  - [ Atrophy TGLs = 7-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 705

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-705

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Hair Follicle	Atrophy Cyst Ulcer	Moderate Squamous Moderate
[ Atrophy TGLs = 2-20 ] [ Ulcer TGLs = 1-19 ]			
Testis	Bilateral, Germ Cell	Degeneration	Mild
[ Degeneration TGLs = 8-16A ]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 706

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                           |                             |
|-----------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla           | * Bone                    | * Bone Marrow               |
| * Brain                     | * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 |
| * Eye                       | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular    | * Nose                      | * Pancreas                | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate                | * Seminal Vesicle           |
| * Skin                      | * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder           |                             |                           |                             |

MISSING

- |         |                 |                    |          |
|---------|-----------------|--------------------|----------|
| * Aorta | * Mammary Gland | * Nerve Trigeminal | * Thymus |
|---------|-----------------|--------------------|----------|

OBSERVATIONS

- |                                       |              |                                            |                                           |
|---------------------------------------|--------------|--------------------------------------------|-------------------------------------------|
| * Adren Medulla                       |              |                                            |                                           |
| Note: One adrenal medulla examined.   |              |                                            |                                           |
| * Kidney                              | Interstitium | Infiltration Cellular<br>Nephropathy       | Lymphocyte, Mild<br>Chronicprogr, Minimal |
| * Liver                               |              | Clear Cell Focus<br>Hepatocellular Adenoma |                                           |
|                                       |              | [ Clear Cell Focus TGLs = 4-12 ]           |                                           |
|                                       |              | [ Hepatocellular Adenoma TGLs = 3-20 ]     |                                           |
| * Lymph Node, Mesenteric              |              | Hemorrhage                                 | Minimal                                   |
| Mesentery                             | Fat          | Necrosis                                   | Moderate                                  |
|                                       |              | [ Necrosis TGLs = 1-19 ]                   |                                           |
| * Parathyroid Gland                   |              |                                            |                                           |
| Note: One parathyroid gland examined. |              |                                            |                                           |
| * Preputial Gland                     |              | Infiltration Cellular                      | Lymphocyte, Minimal                       |
| * Salivary Glands                     |              | Infiltration Cellular                      | Lymphocyte, Minimal                       |
| * Skeletal Muscle                     |              | Infiltration Cellular                      | Lymphocyte, Minimal                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 707

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Lung                    | * Lymph Node, Mesenteric    | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| Testis                      | * Thymus                  | * Thyroid Gland             | * Trachea                   |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                  |             |                       |                       |
|----------------------------------|-------------|-----------------------|-----------------------|
| * Adrenal Cortex                 | Subcapsular | Hyperplasia           | Mild                  |
| * Brain                          |             | Mineral               | Mild                  |
| * Islets, Pancreatic             |             | Hyperplasia           | Moderate              |
| * Kidney                         |             | Nephropathy           | Chronicprogr, Minimal |
| * Liver                          |             | Basophilic Focus      |                       |
|                                  |             | Fatty Change          | Mild                  |
| [ Basophilic Focus TGLs = 2-12 ] |             |                       |                       |
| * Parathyroid Gland              |             |                       |                       |
| Note: One parathyroid examined.  |             |                       |                       |
| * Pituitary Gland                |             |                       |                       |
| Note: Pars distalis examined.    |             |                       |                       |
| * Preputial Gland                |             | Infiltration Cellular | Lymphocyte, Minimal   |
| * Salivary Glands                |             | Infiltration Cellular | Lymphocyte, Minimal   |
| * Seminal Vesicle                | Bilateral   | Dilation              | Moderate              |
| [ Dilation TGLs = 1-16 ]         |             |                       |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 707

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-707

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 709

TRT#: 7

SEX: Male

DAY ON TEST: 738

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Bone
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Preputial Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone Marrow
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Prostate
- \* Spinal Cord
- Testis
- \* Urinary Bladder
- \* Brain
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Seminal Vesicle
- \* Spleen
- \* Thymus

MISSING

- \* Aorta
- \* Mammary Gland
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
- \* Kidney
- \* Liver
- \* Lung
- \* Salivary Glands
- Subcapsular
- Interstitial
- [ Clear Cell Focus TGLs = 2-12 ]
- [ Hepatocellular Adenoma TGLs = 1-12 ]
- [ Alveolar/Bronchiolar Adenoma TGLs = 3-10.1RC ]
- Hyperplasia
- Infiltration Cellular
- Nephropathy
- Clear Cell Focus
- Fatty Change
- Hepatocellular Adenoma
- Alveolar/Bronchiolar Adenoma
- Infiltration Cellular
- Mild
- Lymphocyte, Mild
- Chronicprogr, Minimal
- Minimal
- Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 710

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Pituitary Gland
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Intestine Small, Jejunum Peyers Patch Hyperplasia Lymphoid, Marked
  - [ Hyperplasia TGLs = 4-14 ]
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Clear Cell Focus
  - [ Clear Cell Focus TGLs = 5-12 ]
- \* Lung Alveolar/Bronchiolar Carcinoma
  - [ Alveolar/Bronchiolar Carcinoma TGLs = 6-10 ]
- \* Lymph Node, Mesenteric Hemorrhage Mild
  - [ Hemorrhage TGLs = 3-15 ]
  - [ Hyperplasia TGLs = 2-15 ]
- \* Preputial Gland Duct Dilatation Moderate
  - [ Dilatation TGLs = 1-16 ]
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Seminal Vesicle Bilateral Infiltration Cellular Lymphocyte, Mild
  - [ Dilatation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 711

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thymus                 | * Thyroid Gland             |
| * Trachea                   | * Urinary Bladder           |                          |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                          |                                        |                       |                       |
|--------------------------|----------------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex         | Subcapsular                            | Hyperplasia           | Mild                  |
| * Brain                  |                                        | Mineral               | Minimal               |
| * Harderian Gland        |                                        | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                 | Interstitium                           | Infiltration Cellular | Lymphocyte, Minimal   |
|                          |                                        | Nephropathy           | Chronicprogr, Minimal |
| * Liver                  |                                        | Clear Cell Focus      |                       |
|                          |                                        | Fatty Change          | Mild                  |
|                          | [ Clear Cell Focus TGLs = 2-12, 3-12 ] |                       |                       |
| * Lymph Node, Mesenteric |                                        | Hemorrhage            | Mild                  |
|                          | [ Hemorrhage TGLs = 1-15 ]             |                       |                       |
| * Preputial Gland        |                                        | Infiltration Cellular | Lymphocyte, Mild      |
| * Salivary Glands        |                                        | Infiltration Cellular | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 712

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| Testis                      | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- |                          |                 |                    |          |
|--------------------------|-----------------|--------------------|----------|
| * Lymph Node, Mandibular | * Mammary Gland | * Nerve Trigeminal | * Thymus |
|--------------------------|-----------------|--------------------|----------|

OBSERVATIONS

- |                   |                                              |                              |                     |
|-------------------|----------------------------------------------|------------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                                  | Hyperplasia                  | Mild                |
| * Brain           |                                              | Hyperplasia                  | Focal, Mild         |
| * Epididymis      |                                              | Mineral                      | Minimal             |
| * Harderian Gland |                                              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney          |                                              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver           |                                              | Infarct                      | Mild                |
| * Lung            |                                              | Nephropathy                  | Chronicprogr, Mild  |
|                   | [ Alveolar/Bronchiolar Adenoma TGLs = 1-10 ] | Hepatocellular Adenoma       |                     |
| * Parathyroid GI  |                                              | Alveolar/Bronchiolar Adenoma |                     |

Note: One parathyroid gland examined.



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 715

TRT#: 7

SEX: Male

DAY ON TEST: 658

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Kidney
- \* Nerve Trigeminal
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Prostate
- \* Salivary Glands
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adren Medulla
  - Note: One adrenal medulla examined.
- \* Brain
  - Mineral
  - Fatty Change
  - Hepatocellular Adenoma
- \* Liver
  - Minimal
  - Mild
- \* Lung
  - [ Fatty Change TGLs = 7-12 ]
  - [ Hepatocellular Adenoma TGLs = 7-12 ]
  - Alveolar/Bronchiolar Adenoma
  - Congestion
  - Multiple
  - Mild
- \* Mesentery
  - [ Alveolar/Bronchiolar Adenoma TGLs = 5-19, 6-10 ]
  - [ Congestion TGLs = 8-10 ]
  - Fat
  - Necrosis
  - Mild
- \* Pancreas
  - [ Necrosis TGLs = 4-6 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 715

TRT#: 7

SEX: Male

DAY ON TEST: 658

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-715

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Pancreas in slide 14.

\* Parathyroid Gland

Note: One parathyroid gland examined.

\* Preputial Gland

Infiltration Cellular

Lymphocyte, Mild

\* Seminal Vesicle

Bilateral

Dilation

Moderate

[ Dilation TGLs = 1-16 ]

\* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Animal Note: TGLs 2, 3, & 9 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 716

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| Testis                      | * Thyroid Gland             | * Trachea                | * Urinary Bladder           |

MISSING

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Adren Medulla                       |              |                       |                     |
| Note: One adrenal medulla examined.   |              |                       |                     |
| * Brain                               |              | Mineral               | Mild                |
| * Epididymis                          |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
|                                       | Renal Tubule | Mineral               | Minimal             |
| * Liver                               |              | Fatty Change          | Mild                |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Preputial Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Prostate                            |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Seminal Vesicle                     | Bilateral    | Dilation              | Mild                |
| * Thymus                              |              | Cyst                  |                     |

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 717

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-717

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Peripheral Nerve, Sciatic	Axon	Degeneration	Minimal
* Preputial Gland		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 718

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                       | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                     |
| * Pancreas                  | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Preputial Gland           | * Prostate                  | * Seminal Vesicle           | * Skeletal Muscle          |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| Testis                      | * Thyroid Gland             | * Trachea                   | * Urinary Bladder          |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                     |                                                |                                |                       |
|---------------------|------------------------------------------------|--------------------------------|-----------------------|
| * Adrenal Cortex    | Subcapsular                                    | Hyperplasia                    | Mild                  |
| * Brain             |                                                | Mineral                        | Mild                  |
| * Epididymis        |                                                | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Kidney            |                                                | Infarct                        | Minimal               |
|                     | Interstitial                                   | Infiltration Cellular          | Lymphocyte, Mild      |
|                     |                                                | Nephropathy                    | Chronicprogr, Minimal |
| * Liver             |                                                | Fatty Change                   | Mild                  |
|                     | [ Fatty Change TGLs = 2-12 ]                   |                                |                       |
| * Lung              |                                                | Alveolar/Bronchiolar Carcinoma |                       |
|                     | [ Alveolar/Bronchiolar Carcinoma TGLs = 3-10 ] |                                |                       |
| * Parathyroid Gland |                                                |                                |                       |
|                     | Note: One parathyroid gland examined.          |                                |                       |
| * Pituitary Gland   |                                                |                                |                       |
|                     | Note: Pars distalis examined                   |                                |                       |
| * Salivary Glands   |                                                | Infiltration Cellular          | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 718

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-718

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skin	Subcut Tiss	Malignant Fibrous Histiocytoma
[ Malignant Fibrous Histiocytoma	TGLs = 1-20 ]	
* Thymus		Cyst

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 719

TRT#: 7

SEX: Male

DAY ON TEST: 681

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                             |
|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Brain Trigeminal Ganglion |
| * Epididymis                | * Esophagus                 | * Eye                      | * Gallbladder               |
| * Harderian Gland           | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular    | * Nerve Trigeminal         | * Nose                      |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Preputial Gland           |
| * Skin                      | * Spinal Cord               | * Stomach, Forestomach     | * Stomach, Glandular        |
| Testis                      | * Thyroid Gland             | * Trachea                  | * Urinary Bladder           |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                          |                                              |                            |                        |
|--------------------------|----------------------------------------------|----------------------------|------------------------|
| * Adrenal Cortex         | Subcapsular                                  | Hyperplasia<br>Hyperplasia | Minimal<br>Focal, Mild |
|                          | [ Hyperplasia TGLs = 4-7 ]                   |                            |                        |
| * Bone Marrow            |                                              | Hemangiosarcoma            |                        |
| * Brain                  |                                              | Mineral                    | Mild                   |
| * Heart                  |                                              | Hemangiosarcoma            |                        |
| * Kidney                 | Bilateral, Renal Tubule                      | Bacteria                   |                        |
|                          | Bilateral                                    | Infarct                    | Mild                   |
|                          | [ Inflammation TGLs = 6-13, 7-13 ]           | Inflammation               | Acute, Moderate        |
| * Liver                  |                                              | Hemangiosarcoma            |                        |
|                          | [ Hemangiosarcoma TGLs = 8-12, 9-12, 10-12 ] |                            |                        |
| Lymph Node               | Renal                                        | Infiltration Cellular      | Mixed Cell, Mild       |
|                          | [ Infiltration Cellular TGLs = 5-19 ]        |                            |                        |
| * Lymph Node, Mesenteric |                                              | Infiltration Cellular      | Histiocyte, Mild       |
| Mesentery                | Artery                                       | Inflammation               | Chronic Active, Mild   |
|                          | [ Inflammation TGLs = 5-19 ]                 |                            |                        |
| * Pancreas               |                                              | Inflammation               | Acute, Mild            |
| * Prostate               |                                              | Inflammation               | Acute, Moderate        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 719

TRT#: 7

SEX: Male

DAY ON TEST: 681

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-719

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle		Hyperplasia	Moderate
	Bilateral	Inflammation	Chronic Active, Moderate
	[ Hyperplasia TGLs = 1-16 ]		
* Skeletal Muscle		Inflammation	Acute, Mild
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 11-12, 12-12, 13-12, 14-12 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 721

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Prostate                  | * Seminal Vesicle        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular        | Testis                      | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder           |                             |                          |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                   |                                                          |                                |                       |
|-------------------|----------------------------------------------------------|--------------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                                              | Hyperplasia                    | Mild                  |
| * Brain           |                                                          | Mineral                        | Minimal               |
| * Harderian Gland |                                                          | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Kidney          | Interstitium                                             | Infiltration Cellular          | Lymphocyte, Mild      |
| * Liver           |                                                          | Nephropathy                    | Chronicprogr, Minimal |
|                   |                                                          | Fatty Change                   | Mild                  |
|                   |                                                          | Hepatocellular Adenoma         | Multiple              |
|                   | [ Hepatocellular Adenoma TGLs = 1-20, 2-12, 3-12, 4-19 ] |                                |                       |
| * Lung            |                                                          | Alveolar/Bronchiolar Carcinoma |                       |
|                   | [ Alveolar/Bronchiolar Carcinoma TGLs = 5-10 ]           |                                |                       |
| * Preputial Gland |                                                          | Infiltration Cellular          | Lymphocyte, Mild      |
| * Salivary Glands |                                                          | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Thymus          |                                                          | Cyst                           |                       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 723

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus              | * Eye                       |
| * Gallbladder               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Preputial Gland           | * Prostate               | * Seminal Vesicle           |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   | * Thymus                    |
| * Thyroid Gland             | * Trachea                   | * Urinary Bladder        |                             |

MISSING

- |                 |                    |
|-----------------|--------------------|
| * Mammary Gland | * Nerve Trigeminal |
|-----------------|--------------------|

OBSERVATIONS

- |                   |                                              |                          |                       |
|-------------------|----------------------------------------------|--------------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                                  | Hyperplasia              | Minimal               |
| * Brain           |                                              | Mineral                  | Mild                  |
| * Heart           | Endothelium                                  | Hyperplasia              | Mild                  |
| * Kidney          |                                              | Nephropathy              | Chronicprogr, Minimal |
| * Liver           |                                              | Fatty Change             | Mild                  |
|                   |                                              | Hepatocellular Adenoma   | Multiple              |
|                   |                                              | Hepatocellular Carcinoma |                       |
|                   | [ Hepatocellular Adenoma TGLs = 2-12, 3-12 ] |                          |                       |
|                   | [ Hepatocellular Carcinoma TGLs = 1-19 ]     |                          |                       |
| * Salivary Glands |                                              | Infiltration Cellular    | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 724

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                          |
|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis                | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland           | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                      | * Pancreas               |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Prostate               |
| * Salivary Glands           | * Skeletal Muscle           | * Skin                      | * Spinal Cord            |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular        | Testis                   |
| * Thymus                    | * Thyroid Gland             | * Trachea                   |                          |

MISSING

- \* Mammary Gland

OBSERVATIONS

- |                                       |             |                       |                       |
|---------------------------------------|-------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular | Hyperplasia           | Mild                  |
| * Brain                               |             | Mineral               | Minimal               |
| * Kidney                              |             | Infarct               | Mild                  |
|                                       |             | Nephropathy           | Chronicprogr, Minimal |
| * Liver                               |             | Clear Cell Focus      |                       |
| Mesentery                             | Fat         | Necrosis              | Mild                  |
| [ Necrosis TGLs = 2-6 ]               |             |                       |                       |
| * Parathyroid GI                      |             |                       |                       |
| Note: One parathyroid gland examined. |             |                       |                       |
| * Preputial Gland                     |             | Infiltration Cellular | Lymphocyte, Moderate  |
| * Seminal Vesicle                     | Bilateral   | Dilation              | Moderate              |
| [ Dilation TGLs = 1-16 ]              |             |                       |                       |
| Tooth                                 |             | Dysplasia             | Marked                |
| * Urinary Bladder                     |             | Infiltration Cellular | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 726

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 672

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-726

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

---

Animal Note: TGL 7 = NCL

---

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 727

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 531

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-727

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                          |                           |                             |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | * Aorta                   | * Bone                      |
| * Bone Marrow              | * Epididymis             | * Esophagus               | * Eye                       |
| * Heart                    | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lung                    | * Lymph Node, Mesenteric    |
| * Nerve Trigeminal         | * Nose                   | * Pancreas                | * Peripheral Nerve, Sciatic |
| * Pituitary Gland          | * Preputial Gland        | * Prostate                | * Salivary Glands           |
| * Skeletal Muscle          | * Skin                   | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach     | * Stomach, Glandular     | Testis                    | * Thymus                    |
| * Thyroid Gland            | * Trachea                | * Urinary Bladder         |                             |

**MISSING**

- |                             |                          |                 |                     |
|-----------------------------|--------------------------|-----------------|---------------------|
| * Brain Trigeminal Ganglion | * Lymph Node, Mandibular | * Mammary Gland | * Parathyroid Gland |
|-----------------------------|--------------------------|-----------------|---------------------|

**AUTO PRECLUDES DIAG.**

- |               |                          |                          |
|---------------|--------------------------|--------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Ileum |
|---------------|--------------------------|--------------------------|

**OBSERVATIONS**

- |                   |                                  |                       |                     |
|-------------------|----------------------------------|-----------------------|---------------------|
| * Brain           |                                  | Mineral               | Minimal             |
| * Harderian Gland |                                  | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney          | Pelvis                           | Dilation              | Moderate            |
|                   | Renal Tubule                     | Dilation              | Mild                |
|                   | [ Dilation TGLs = 7-13,8-13 ]    |                       |                     |
| * Liver           |                                  | Fatty Change          | Mild                |
|                   |                                  | Mixed Cell Focus      |                     |
|                   | [ Fatty Change TGLs = 4-12 ]     |                       |                     |
|                   | [ Mixed Cell Focus TGLs = 5-12 ] |                       |                     |
| * Seminal Vesicle | Bilateral                        | Dilation              | Moderate            |
|                   | [ Dilation TGLs = 2-16 ]         |                       |                     |

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 728

TRT#: 7

SEX: Male

DAY ON TEST: 738

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Prostate
- \* Spinal Cord
- Testis
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Seminal Vesicle
- \* Spleen
- \* Thymus

MISSING

- \* Mammary Gland
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                      Mineral                                      Minimal
- \* Epididymis                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Renal Tubule                              Cyst                                      Chronicprogr, Minimal
- \* Liver                                              Nephropathy                                      Hepatocellular Adenoma                      Multiple
- Mixed Cell Focus
- [ Hepatocellular Adenoma    TGLs = 1-19, 2-12 ]
- [ Mixed Cell Focus        TGLs = 3-12 ]
- \* Lung                                              Alveolar/Bronchiolar Adenoma
- [ Alveolar/Bronchiolar Adenoma    TGLs = 4-10 ]
- \* Preputial Gland                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Mild
- \* Urinary Bladder                              Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 730

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Mammary Gland             | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Skeletal Muscle           | * Skin                    | * Spinal Cord               | * Spleen                 |
| * Stomach, Forestomach      | * Stomach, Glandular      | Testis                      | * Thymus                 |
| * Thyroid Gland             | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- |                          |                    |
|--------------------------|--------------------|
| * Lymph Node, Mesenteric | * Nerve Trigeminal |
|--------------------------|--------------------|

OBSERVATIONS

- |                                       |             |                                        |                       |
|---------------------------------------|-------------|----------------------------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular | Hyperplasia                            | Mild                  |
| * Brain                               |             | Mineral                                | Mild                  |
| * Kidney                              |             | Nephropathy                            | Chronicprogr, Minimal |
| * Liver                               |             | Clear Cell Focus                       |                       |
|                                       |             | Fatty Change                           | Mild                  |
|                                       |             | Hepatocellular Adenoma                 |                       |
|                                       |             | [ Clear Cell Focus TGLs = 1-12 ]       |                       |
|                                       |             | [ Hepatocellular Adenoma TGLs = 2-12 ] |                       |
| * Parathyroid GI                      |             |                                        |                       |
| Note: One parathyroid gland examined. |             |                                        |                       |
| * Salivary Glands                     |             | Infiltration Cellular                  | Lymphocyte, Minimal   |
| * Seminal Vesicle                     | Bilateral   | Dilation                               | Mild                  |
| Tooth                                 |             | Dysplasia                              | Mild                  |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 735

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain	* Brain Trigeminal Ganglion	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nerve Trigeminal	* Nose
* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skeletal Muscle	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
--------------------------	-----------------	---------------------

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		[ Clear Cell Focus TGLs = 2-12 ]	
		[ Hepatocellular Adenoma TGLs = 4-12, 5-12, 3-19 ]	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Preputial GI			
Note: One preputial gland examined.			
* Prostate		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle		Dilation	Mild
* Skin	Hair Follicle	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 735

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-735

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Atrophy TGLs = 1-19 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain Trigeminal Ganglion |
| * Esophagus                | * Eye                     | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mesenteric    | * Mammary Gland             |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland          | * Skeletal Muscle         | * Skin                      | * Spinal Cord               |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland             |
| * Trachea                  |                           |                             |                             |

MISSING

- |                  |                          |                    |
|------------------|--------------------------|--------------------|
| * Clitoral Gland | * Lymph Node, Mandibular | * Nerve Trigeminal |
|------------------|--------------------------|--------------------|

OBSERVATIONS

- |                      |                                        |                              |                          |
|----------------------|----------------------------------------|------------------------------|--------------------------|
| * Adrenal Cortex     | Subcapsular                            | Hyperplasia                  | Moderate                 |
| * Aorta              |                                        | Inflammation                 | Chronic Active, Moderate |
| * Brain              |                                        | Mineral                      | Mild                     |
| * Gallbladder        |                                        | Infiltration Cellular        | Lymphocyte, Mild         |
| * Harderian Gland    |                                        | Infiltration Cellular        | Lymphocyte, Minimal      |
| * Islets, Pancreatic |                                        | Infiltration Cellular        | Lymphocyte, Minimal      |
| * Kidney             | Interstitium                           | Infiltration Cellular        | Lymphocyte, Mild         |
|                      |                                        | Nephropathy                  | Chronicprogr, Mild       |
| * Liver              |                                        | Extramedullary Hematopoiesis | Minimal                  |
|                      |                                        | Hepatocellular Adenoma       |                          |
|                      |                                        | Necrosis                     | Moderate                 |
|                      | [ Hepatocellular Adenoma TGLs = 4-19 ] |                              |                          |
| * Ovary              |                                        | Hemangioma                   |                          |
|                      | [ Hemangioma TGLs = 1-16 ]             |                              |                          |
| * Parathyroid GI     |                                        |                              |                          |
|                      | Note: One parathyroid gland examined.  |                              |                          |
| * Pituitary GI       |                                        |                              |                          |
|                      | Note: Pars distalis examined.          |                              |                          |
| * Salivary Glands    |                                        | Infiltration Cellular        | Lymphocyte, Minimal      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 107

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-107

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

\* Urinary Bladder

\* Uterus

Extramedullary Hematopoiesis

Infiltration Cellular

Dilation

Hyperplasia

Mild

Lymphocyte, Mild

Moderate

Cystic, Moderate

Endometrium

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

---

Animal Note: TGL 3 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 638

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                   | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland           | * Salivary Glands         | * Skeletal Muscle           | * Spinal Cord            |
| * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland             | * Trachea                 | * Urinary Bladder           | * Uterus                 |

OBSERVATIONS

- |                                 |               |                       |                     |
|---------------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex                | Subcapsular   | Hyperplasia           | Moderate            |
| * Brain                         |               | Mineral               | Mild                |
| * Liver                         |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid GI                |               |                       |                     |
| Note: One parathyroid examined. |               |                       |                     |
| * Peripheral Nerve, Sciatic     | Axon          | Degeneration          | Mild                |
| * Skin                          | Hair Follicle | Atrophy               | Moderate            |
- [ Atrophy TGLs = 3-19 ]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLS 1 & 2 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 745

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland           | * Nerve Trigeminal          | * Nose                      |
| * Ovary                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands         | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| * Thyroid Gland             | * Trachea                 |                             |                             |

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Mild                |
| * Kidney                              | Renal Tubule | Dilation              | Minimal             |
|                                       |              | Infarct               | Mild                |
|                                       | Interstitial | Infiltration Cellular | Lymphocyte, Mild    |
| * Liver                               |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                               |              |                       |                     |
| Note: One ovary examined.             |              |                       |                     |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Thymus                              |              | Cyst                  |                     |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |

[ Hyperplasia TGLs = 1-16 ]

Animal Note: TGL 2 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 111

TRT#: 2

SEX: Female

DAY ON TEST: 743

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Gallbladder
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Angiectasis
    - Hyperplasia
    - Mineral
- \* Brain
- \* Clitoral GI
  - Note: One clitoral gland examined.
- \* Kidney
  - Interstitial
    - Infiltration Cellular
- \* Liver
  - Hepatocellular Adenoma
    - TGLs = 1-12 ]
    - Infiltration Cellular
- \* Ovary
  - Follicle
    - Cyst
- \* Pancreas
- \* Peripheral Nerve, Sciatic
  - Axon
    - Degeneration
- \* Salivary Glands
- \* Urinary Bladder
- \* Uterus
  - Endometrium
    - Infiltration Cellular
    - Hyperplasia

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 113

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-113

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Nerve Trigeminal

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart	Valve	Thrombus	Moderate
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gl			
Note: Pars distalis examined.			
* Spleen		Extramedullary Hematopoiesis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLs = 1-16 ]

Animal Note: TGLs 2 & 3 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 114

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 656

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-114

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Dilation

Mild

---

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

---

Animal Note: TGLs 2, 3, 4, 6, & 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 115

TRT#: 2

SEX: Female

DAY ON TEST: 752

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Nose
- \* Spinal Cord
- \* Thymus

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Brain</li> <li>* Clitoral Gland</li> <li>* Harderian Gland</li> <li>* Islets, Pancreatic</li> <li>* Kidney</li> <li>* Liver</li> <li>* Lung</li> <li>* Pancreas</li> <li>* Salivary Glands</li> <li>* Skeletal Muscle</li> <li>* Skin</li> <li>* Urinary Bladder</li> <li>* Uterus</li> </ul> | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>Interstitial</li> <li>Subcut Tiss</li> <li>Endometrium</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Nephropathy</li> <li>Basophilic Focus</li> <li>Infiltration Cellular</li> <li>Alveolar/Bronchiolar Adenoma</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Fibroma</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Mild</li> <li>Mild</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Chronicprogr, Mild</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Moderate</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Cystic, Moderate</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
- [ Fibroma TGLs = 1-19 ]
- [ Hyperplasia TGLs = 2-16 ]

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 116

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                             |
|---------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone Marrow            | * Brain Trigeminal Ganglion |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Peripheral Nerve, Sciatic |
| * Pituitary Gland         | * Salivary Glands           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thymus                  | * Thyroid Gland             | * Trachea                |                             |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

OBSERVATIONS

- |                                     |              |                       |                     |
|-------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                    | Subcapsular  | Hyperplasia           | Moderate            |
| * Bone                              |              | Fibro-Osseous Lesion  | Mild                |
| * Brain                             |              | Mineral               | Mild                |
| * Harderian GI                      |              |                       |                     |
| Note: One Harderian gland examined. |              |                       |                     |
| * Kidney                            | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                             |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                             |              | Thecoma Malignant     |                     |
| [ Thecoma Malignant TGLs = 1-16 ]   |              |                       |                     |
| * Pituitary GI                      |              |                       |                     |
| Note: Pars distalis examined.       |              |                       |                     |
| * Urinary Bladder                   |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                            | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 2-16 ]         |              |                       |                     |

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 752

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                           |                             |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                    | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic |
| * Salivary Glands           | * Skin                     | * Spinal Cord             | * Stomach, Forestomach      |
| * Stomach, Glandular        | * Thymus                   | * Thyroid Gland           | * Trachea                   |

MISSING

- \* Gallbladder

OBSERVATIONS

- |                     |                                          |                          |                     |
|---------------------|------------------------------------------|--------------------------|---------------------|
| * Adrenal Cortex    | Subcapsular                              | Hyperplasia              | Mild                |
| * Brain             |                                          | Mineral                  | Minimal             |
| * Clitoral Gland    |                                          | Infiltration Cellular    | Lymphocyte, Minimal |
| * Harderian Gland   |                                          | Infiltration Cellular    | Lymphocyte, Mild    |
| * Kidney            | Interstitium                             | Infiltration Cellular    | Lymphocyte, Mild    |
|                     |                                          | Nephropathy              | Chronicprogr, Mild  |
| * Liver             |                                          | Hepatocellular Carcinoma |                     |
|                     |                                          | Infiltration Cellular    | Lymphocyte, Mild    |
|                     | [ Hepatocellular Carcinoma TGLs = 3-12 ] |                          |                     |
| * Ovary             | Follicle                                 | Cyst                     |                     |
| * Parathyroid Gland |                                          |                          |                     |
|                     | Note: One parathyroid gland examined.    |                          |                     |
| * Pituitary Gland   | Pars Distalis                            | Hyperplasia              | Focal, Moderate     |
| * Skeletal Muscle   |                                          | Infiltration Cellular    | Lymphocyte, Minimal |
| * Spleen            |                                          | Hyperplasia              | Lymphoid, Moderate  |
|                     | [ Hyperplasia TGLs = 2-12 ]              |                          |                     |
| * Urinary Bladder   |                                          | Infiltration Cellular    | Lymphocyte, Mild    |
| * Uterus            | Endometrium                              | Hyperplasia              | Cystic, Mild        |
|                     | [ Hyperplasia TGLs = 1-16 ]              |                          |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 118

TRT#: 2

SEX: Female

DAY ON TEST: 746

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Ovary
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Thymus

MISSING

- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow                                           Hypercellularity                      Moderate
- \* Brain                                           Mineral                      Mild
- \* Clitoral Gland                                           Infiltration Cellular                      Lymphocyte, Minimal
- \* Harderian Gland                                           Infiltration Cellular                      Lymphocyte, Minimal
- \* Islets, Pancreatic                                           Carcinoma
- [ Carcinoma    TGLs = 3-20 ]
- \* Kidney                      Interstitium                      Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                      Chronicprogr, Minimal
- \* Liver                                           Hepatocellular Carcinoma                      Multiple
- [ Hepatocellular Carcinoma    TGLs = 4-19, 5-12 ]
- \* Lung                                           Hepatocellular Carcinoma                      Metastatic (Liver)
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Salivary Glands                                           Infiltration Cellular                      Lymphocyte, Mild
- \* Spleen                                           Extramedullary Hematopoiesis                      Moderate
- [ Extramedullary Hematopoiesis    TGLs = 2-12 ]
- \* Urinary Bladder                                           Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                           Dilatation                      Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 118

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-118

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 551

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Lung
- \* Ovary
- \* Skin
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Bone
- \* Esophagus
- \* Heart
- \* Mammary Gland
- \* Pituitary Gland
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Nose
- \* Skeletal Muscle
- \* Trachea

MISSING

- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Parathyroid Gland
- Vagina

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Spleen
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Stomach, Forestomach
- \* Intestine Small, Duodenum
- \* Liver
- \* Stomach, Glandular
- \* Intestine Small, Ileum
- \* Pancreas
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Minimal
- \* Kidney                                              Interstitium                              Infiltration Cellular              Lymphocyte, Mild
- Metaplasia                                      Osseous
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Thyroid Gland
- Note: One thyroid gland examined.
- \* Urinary Bladder                              Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Endometrium                              Cyst
- [ Cyst    TGLs = 1-16, 4-16, 5-16, 6-16 ]

PRIMARY CAUSE OF DEATH              - UNCERTAIN

Animal Note: TGL 2 = NST; TGLs 3, 7, 8, 9, & 10 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 122

TRT#: 2

SEX: Female

DAY ON TEST: 653

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Pituitary Gland
- \* Spinal Cord
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular

MISSING

- \* Lymph Node, Mesenteric

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Heart                                      Thrombus                                      Mild
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                      Necrosis                                      Moderate
- [ Necrosis    TGLs = 5-12 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Spleen                                      Extramedullary Hematopoiesis                      Moderate
- [ Extramedullary Hematopoiesis    TGLs = 6-12 ]
- \* Thymus                                      Atrophy                                      Moderate
- \* Thyroid Gland
- Note: One thyroid gland examined.
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                                      Hyperplasia                                      Cystic, Mild
- [ Hyperplasia    TGLs = 2-16 ]

PRIMARY CAUSE OF DEATH                      - Liver    Necrosis

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 122

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 653

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-122

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGLs 1 & 4 = NCL

---







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 124

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 744

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-124

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

\* Urinary Bladder

\* Uterus

Infiltration Cellular

Infiltration Cellular

Dilation

Hyperplasia

Lymphocyte, Minimal

Lymphocyte, Minimal

Mild

Cystic, Moderate

Endometrium

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

---

Animal Note: TGL 1 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Skeletal Muscle
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Spinal Cord
- \* Urinary Bladder

MISSING

- \* Adrenal Cortex
- \* Parathyroid Gland
- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Nerve Trigeminal

INSUFFICIENT TISSUE

- \* Ovary

OBSERVATIONS

- \* Brain Mineral Mild
- \* Harderian Gl
- Note: One Harderian gland examined.
- \* Heart Lymphoma Malignant Basophilic Focus Infiltration Cellular Necrosis Lymphocyte, Minimal Moderate
- \* Liver
- [ Basophilic Focus TGLs = 7-12 ]
- [ Necrosis TGLs = 4-19 ]
- Lymph Node Lymphoma Malignant
- Mesentery Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 3-7 ]
- \* Pancreas Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 2-6 ]
- \* Peripheral Nerve, Sciatic Axon Degeneration Minimal
- \* Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-125

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 6-4 ]

\* Salivary Glands

\* Spleen

\* Stomach, Glandular

\* Thymus

[ Lymphoma Malignant TGLs = 5-6 ]

\* Uterus

Endometrium

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]

Infiltration Cellular

Hyperplasia

Cyst

Lymphoma Malignant

Dilation

Hyperplasia

Lymphocyte, Minimal

Lymphoid, Mild

Mild

Cystic, Moderate

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 746

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          |
| * Nose                      | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle         | * Skin                      | * Spinal Cord               |
| * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    |
| * Thyroid Gland             | * Trachea                 |                             |                             |

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Mild                |
| * Kidney                              |              | Infarct               | Minimal             |
|                                       | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                               | Follicle     | Cyst                  |                     |
| [ Cyst TGLs = 2-16 ]                  |              |                       |                     |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Thyroid Gland                       |              |                       |                     |
| Note: One thyroid gland examined.     |              |                       |                     |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              |              | Dilation              | Mild                |
|                                       | Endometrium  | Hyperplasia           | Cystic, Mild        |
| [ Dilation TGLs = 1-16 ]              |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 127

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Thymus
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Salivary Glands
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach

MISSING

- \* Clitoral Gland
- \* Ovary

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Mild
- \* Kidney                                              Interstitium                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                              Infiltration Cellular                      Lymphocyte, Minimal
- Mesentery                                      Fat                                              Necrosis                                      Moderate
- [ Necrosis    TGLs = 2-19 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Stomach, Glandular                              Cyst
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Dilation                                      Mild
- Endometrium                                      Hyperplasia                                      Cystic, Mild
- [ Dilation    TGLs = 1-16 ]
- [ Hyperplasia    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 128

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                             |
|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone Marrow               | * Brain Trigeminal Ganglion |
| * Clitoral Gland          | * Esophagus                 | * Eye                       | * Gallbladder               |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                      |
| * Ovary                   | * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland           |
| * Skeletal Muscle         | * Skin                      | * Spinal Cord               | * Spleen                    |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland             |
| * Trachea                 |                             |                             |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                   |              |                       |                  |
|-----------------------------------|--------------|-----------------------|------------------|
| * Adrenal Cortex                  | Subcapsular  | Hyperplasia           | Minimal          |
| * Bone                            |              | Fibro-Osseous Lesion  | Mild             |
| * Brain                           |              | Mineral               | Mild             |
| * Kidney                          | Interstitium | Infiltration Cellular | Lymphocyte, Mild |
| Mesentery                         | Fat          | Necrosis              | Mild             |
| [ Necrosis TGLs = 2-19 ]          |              |                       |                  |
| * Salivary Glands                 |              | Infiltration Cellular | Lymphocyte, Mild |
| * Thyroid GI                      |              |                       |                  |
| Note: One thyroid gland examined. |              |                       |                  |
| * Urinary Bladder                 |              | Infiltration Cellular | Lymphocyte, Mild |
| * Uterus                          | Endometrium  | Hyperplasia           | Cystic, Moderate |
| [ Hyperplasia TGLs = 1-16 ]       |              |                       |                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 745

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone Marrow            | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic        |
| * Lung                      | * Mammary Gland             | * Nose                   | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                             |

MISSING

- |                          |                          |                    |
|--------------------------|--------------------------|--------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nerve Trigeminal |
|--------------------------|--------------------------|--------------------|

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Moderate            |
| * Bone                                |              | Fibro-Osseous Lesion  | Mild                |
| * Brain                               |              | Mineral               | Mild                |
| * Intestine Small, Jejunum            | Peyers Patch | Hyperplasia           | Lymphoid, Mild      |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |              | Infiltration Cellular | Lymphocyte, Minimal |
| Mesentery                             | Fat          | Necrosis              | Mild                |
| [ Necrosis TGLs = 3-19 ]              |              |                       |                     |
| * Ovary                               |              | Cyst                  |                     |
| [ Cyst TGLs = 2-16 ]                  |              |                       |                     |
| * Pancreas                            |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              |              | Dilation              | Mild                |
|                                       | Endometrium  | Hyperplasia           | Cystic, Mild        |
| [ Dilation TGLs = 1-16 ]              |              |                       |                     |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-131

ORGAN AND ACCOUNTABLE SITE STATUS

Mediastinum		Histiocytic Sarcoma	
* Ovary			
Note: One ovary examined.			
* Pancreas		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLs = 4-6 ]			
* Parathyroid G1			
Note: One parathyroid gland examined.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Skeletal Muscle		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLs = 3-12 ]			
* Uterus		Dilation	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Dilation TGLs = 2-16 ]			
[ Hyperplasia TGLs = 2-16 ]			

Animal Note: TGL 1 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 746

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                   | * Ovary                    | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Skeletal Muscle        | * Skin                     | * Spinal Cord             |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                |                            |                           |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                             |               |                       |                     |
|-----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                     |               | Mineral               | Minimal             |
| * Harderian Gland           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                    | Renal Tubule  | Adenoma               |                     |
| * Liver                     |               | Infiltration Cellular | Lymphocyte, Minimal |
| Mesentery                   | Fat           | Necrosis              | Moderate            |
| [ Necrosis TGLs = 2-19 ]    |               |                       |                     |
| * Pancreas                  |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Pituitary Gland           | Pars Distalis | Angiectasis           | Mild                |
| * Salivary Glands           |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                    | Endometrium   | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ] |               |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 743

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                   | * Ovary                    | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          | * Skin                      |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                             |

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Moderate            |
| * Bone                                |              | Hemangioma            |                     |
| * Brain                               |              | Mineral               | Mild                |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |              | Inflammation          | Focal, Minimal      |
| * Ovary                               |              |                       |                     |
| Note: One ovary examined.             |              |                       |                     |
| * Pancreas                            |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Mild        |

[ Hyperplasia TGLs = 1-16 ]



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 746

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skin
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Medulla
  - \* Bone
  - \* Brain
  - \* Harderian Gland
  - \* Heart
    - Myocardium
    - Epicardium
    - Interstitium
  - \* Kidney
  - \* Liver
    - [ Hepatocellular Carcinoma TGLs = 4-22 ]
    - [ Hepatocellular Carcinoma TGLs = 5-10, 6-19, 7-10, 8-20, 9-21 ]
  - \* Lung
    - [ Hepatocellular Carcinoma TGLs = 5-10, 6-19, 7-10, 8-20, 9-21 ]
  - \* Lymph Node, Mesenteric
    - Mediastinum
  - \* Ovary
    - Note: One ovary examined
    - [ Cystadenoma TGLs = 1-16 ]
  - \* Pancreas
  - \* Parathyroid Gland
    - Note: One parathyroid gland examined.
  - \* Peripheral Nerve, Sciatic
    - Axon
- Pheochromocytoma Malignant  
Fibro-Osseous Lesion  
Mineral  
Infiltration Cellular  
Fibrosis  
Infiltration Cellular  
Infiltration Cellular  
Hepatocellular Carcinoma  
Infiltration Cellular  
Hepatocellular Carcinoma  
Metastatic (Liver)  
Infiltration Cellular  
Histiocyte, Mild  
Metastatic (Liver)  
Cystadenoma  
Infiltration Cellular  
Degeneration
- Moderate  
Mild  
Lymphocyte, Mild  
Minimal  
Mononuclear Cl, Minimal  
Lymphocyte, Mild  
Lymphocyte, Minimal  
Metastatic (Liver)  
Histiocyte, Mild  
Metastatic (Liver)  
Lymphocyte, Mild  
Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 137

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-137

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Hyperplasia

Lymphoid, Mild

[ Hyperplasia TGLs = 3-12 ]

\* Thymus

Note: Thymus is on slide 5.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Moderate

\* Uterus

Dilation

Moderate

Endometrium

Hyperplasia

Cystic, Moderate

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 138

TRT#: 2

SEX: Female

DAY ON TEST: 746

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            |
| * Nerve Trigeminal          | * Nose                      | * Ovary                  | * Pancreas                 |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Lymph Node, Mesenteric

OBSERVATIONS

- |                                       |              |                        |                     |
|---------------------------------------|--------------|------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia            | Mild                |
| * Brain                               |              | Mineral                | Minimal             |
| * Harderian Gland                     |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular  | Lymphocyte, Mild    |
| * Liver                               |              | Hepatocellular Adenoma |                     |
| * Parathyroid Gland                   |              | Cyst                   |                     |
| Note: One parathyroid gland examined. |              |                        |                     |
| * Salivary Glands                     |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Uterus                              | Endometrium  | Hyperplasia            | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |              |                        |                     |

Animal Note: TGL 2 = NCL







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 140

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 448

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-140

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tissue NOS

Abdominal

Osteosarcoma

Metastatic (Skin)

[ Osteosarcoma TGLs = 6-20 ]

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

\* Uterus

Endometrium

Cyst

---

PRIMARY CAUSE OF DEATH

- Lung Osteosarcoma Skin

CONTRIBUTORY CAUSE OF DEATH

- Liver Osteosarcoma Skin

---

Animal Note: TGL 1 = NST; TGL 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 142

TRT#: 2

SEX: Female

DAY ON TEST: 751

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                    | * Bone Marrow             | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nerve Trigeminal        | * Nose                      |
| * Ovary                  | * Parathyroid Gland        | * Pituitary Gland         | * Skin                      |
| * Spinal Cord            | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  |                           |                             |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                                       |              |                             |                     |
|---------------------------------------|--------------|-----------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia                 | Mild                |
| * Bone                                |              | Fibro-Osseous Lesion        | Mild                |
| * Brain                               |              | Mineral                     | Mild                |
| * Harderian Gland                     |              | Infiltration Cellular       | Lymphocyte, Minimal |
| * Islets, Pancreatic                  |              | Infiltration Cellular       | Lymphocyte, Mild    |
| * Kidney                              | Interstitium | Infiltration Cellular       | Lymphocyte, Minimal |
| * Liver                               |              | Infiltration Cellular       | Lymphocyte, Minimal |
| Lymph Node                            | Iliac        | Hyperplasia                 | Lymphoid, Moderate  |
|                                       | Renal        | Hyperplasia                 | Lymphoid, Moderate  |
|                                       |              | [ Hyperplasia TGLs = 4-20 ] |                     |
|                                       |              | [ Hyperplasia TGLs = 6-21 ] |                     |
| * Ovary                               |              |                             |                     |
| Note: One ovary examined.             |              |                             |                     |
| * Pancreas                            |              | Infiltration Cellular       | Lymphocyte, Mild    |
| * Parathyroid Gland                   |              |                             |                     |
| Note: One parathyroid gland examined. |              |                             |                     |
| * Peripheral Nerve, Sciatic           | Axon         | Degeneration                | Minimal             |
| * Salivary Glands                     |              | Infiltration Cellular       | Lymphocyte, Mild    |
| * Skeletal Muscle                     |              | Infiltration Cellular       | Lymphocyte, Minimal |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 142

TRT#: 2

SEX: Female

DAY ON TEST: 751

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-142

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis Hyperplasia	Mild Lymphoid, Mild
	[ Extramedullary Hematopoiesis TGLs = 3-12 ]		
	[ Hyperplasia TGLs = 3-12 ]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Fibroma	
	Endometrium	Hyperplasia	Cystic, Marked
	[ Fibroma TGLs = 2-19 ]		
	[ Hyperplasia TGLs = 1-16 ]		

Animal Note: TGL 5 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 143

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-143

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-16 ]

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 146

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 607

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-146

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One parathyroid examined.

\* Salivary Glands

\* Spleen

\* Thymus

Infiltration Cellular

Extramedullary Hematopoiesis

Histiocytic Sarcoma

Lymphocyte, Minimal

Mild

---

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

---

Animal Note: TGL 1 = NCL; TGL 3 = NST

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 147

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus

MISSING

- \* Brain Trigeminal Ganglion
- \* Ovary
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Moderate
- \* Brain                                              Mineral                                      Minimal
- \* Harderian Gland                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                              Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                                      Infiltration Cellular                      Lymphocyte, Minimal
- Lymph Node                                              Hyperplasia                                      Lymphoid, Mild
- [ Hyperplasia    TGLs = 4-19 ]
- Mesentery                                              Fat                                              Hemangioma
- [ Hemangioma    TGLs = 5-19 ]
- \* Salivary Glands                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                                      Dilatation                                      Moderate
- Endometrium                                      Hyperplasia                                      Cystic, Moderate
- Endometrium                                      Metaplasia                                      Squamous, Moderate
- [ Dilatation    TGLs = 1-16 ]
- [ Hyperplasia    TGLs = 1-16 ]

Animal Note: TGLs 2 & 3 = NCL

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 148

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-148

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLs = 2-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 689

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Nose
- \* Skin
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Spinal Cord
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Mammary Gland
- \* Pituitary Gland
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Ovary
- \* Urinary Bladder

AUTO PRECLUDES DIAG.

- \* Intestine Small, Ileum

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Histiocytic Sarcoma
    - Hyperplasia
    - Hypercellularity
    - Mineral
    - Infiltration Cellular
  - Pelvis
    - Dilatation
    - Histiocytic Sarcoma
    - Infiltration Cellular
  - Interstitialium
    - Lymphocyte, Moderate
- Note: One kidney examined.
  - [ Dilatation TGLs = 3-13 ]
- \* Liver
  - Kupffer Cell
    - Histiocytic Sarcoma
    - Hyperplasia
    - Infiltration Cellular
  - [ Histiocytic Sarcoma TGLs = 6-12 ]
    - Lymphocyte, Moderate
- \* Lung
  - [ Histiocytic Sarcoma TGLs = 7-10, 8-10 ]
    - Histiocytic Sarcoma
  - Lymph Node
    - Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 689

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-149

ORGAN AND ACCOUNTABLE SITE STATUS

<p>Lumbar</p> <p>[ Histiocytic Sarcoma TGLs = 10-20, 12-21 ]</p> <p>[ Infiltration Cellular TGLs = 11-22 ]</p> <p>* Lymph Node, Mandibular</p> <p>* Lymph Node, Mesenteric</p> <p>[ Erythrophagocytosis TGLs = 13-15 ]</p> <p>[ Hyperplasia TGLs = 13-15 ]</p> <p>[ Infiltration Cellular TGLs = 13-15 ]</p> <p>* Pancreas</p> <p>[ Histiocytic Sarcoma TGLs = 14-6 ]</p> <p>* Parathyroid G1</p> <p>Note: One parathyroid gland examined.</p> <p>* Salivary Glands</p> <p>* Skeletal Muscle</p> <p>[ Histiocytic Sarcoma TGLs = 9-19 ]</p> <p>* Spleen</p> <p>[ Histiocytic Sarcoma TGLs = 2-12 ]</p> <p>* Stomach, Glandular</p> <p>* Uterus</p> <p>Note: Uterine horn in slide 13.</p> <p>[ Histiocytic Sarcoma TGLs = 4-16 ]</p>	<p>Infiltration Cellular</p> <p>Hyperplasia</p> <p>Infiltration Cellular</p> <p>Erythrophagocytosis</p> <p>Hyperplasia</p> <p>Infiltration Cellular</p> <p>Histiocytic Sarcoma</p> <p>Infiltration Cellular</p> <p>Atrophy</p> <p>Histiocytic Sarcoma</p> <p>Infiltration Cellular</p> <p>Histiocytic Sarcoma</p> <p>Histiocytic Sarcoma</p> <p>Dilation</p> <p>Histiocytic Sarcoma</p>	<p>Mixed Cell, Mild</p> <p>Lymphoid, Mild</p> <p>Mixed Cell, Mild</p> <p>Mild</p> <p>Lymphoid, Moderate</p> <p>Histiocyte, Mild</p> <p>Lymphocyte, Minimal</p> <p>Mild</p> <p>Lymphocyte, Minimal</p> <p>Mild</p>
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PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH - Lung Histiocytic Sarcoma

Animal Note: TGL 1 = NST; TGL 5 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 150

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 511

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-150

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Atrophy TGLs = 6-21,7-22 ]

\* Urinary Bladder

\* Uterus

Endometrium

Infiltration Cellular

Dilation

Hyperplasia

Lymphocyte, Mild

Mild

Cystic, Mild

[ Dilation TGLs = 5-16 ]

[ Hyperplasia TGLs = 5-16 ]

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 152

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 744

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-152

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One thyroid gland examined.

\* Uterus

Endometrium

Dilation

Hyperplasia

Moderate

Cystic, Mild

[ Dilation TGLs = 2-16 ]

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 154

TRT#: 2

SEX: Female

DAY ON TEST: 745

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                             |
|---------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone Marrow            | * Brain Trigeminal Ganglion |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Pancreas                  |
| * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Salivary Glands        | * Skeletal Muscle           |
| * Skin                    | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                   |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                     |                                               |                       |                  |
|---------------------|-----------------------------------------------|-----------------------|------------------|
| * Adrenal Cortex    | Subcapsular                                   | Hyperplasia           | Mild             |
| * Bone              |                                               | Fibro-Osseous Lesion  | Mild             |
| * Brain             |                                               | Mineral               | Minimal          |
| * Liver             |                                               | Inflammation          | Focal, Minimal   |
| * Lung              |                                               | Hemorrhage            | Moderate         |
|                     | [ Hemorrhage TGLs = 4-10, 5-10, 6-10 ]        |                       |                  |
| * Ovary             |                                               |                       |                  |
|                     | Note: One ovary examined (No lesion present). |                       |                  |
| * Parathyroid Gland |                                               |                       |                  |
|                     | Note: One parathyroid gland examined.         |                       |                  |
| * Pituitary Gland   | Pars Distalis                                 | Hyperplasia           | Focal, Moderate  |
|                     | [ Hyperplasia TGLs = 7-4 ]                    |                       |                  |
| * Urinary Bladder   |                                               | Infiltration Cellular | Lymphocyte, Mild |
| * Uterus            | Endometrium                                   | Hyperplasia           | Cystic, Mild     |
|                     |                                               | Thrombus              | Moderate         |
|                     | [ Hyperplasia TGLs = 1-16 ]                   |                       |                  |
|                     | [ Thrombus TGLs = 2-16 ]                      |                       |                  |

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 155

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Skin
- \* Stomach, Glandular
- \* Uterus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Nerve Trigeminal
- \* Ovary

OBSERVATIONS

- |                             |               |                       |                     |
|-----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular   | Hyperplasia           | Moderate            |
| * Brain                     |               | Hydrocephalus         | Mild                |
|                             |               | Mineral               | Mild                |
| * Kidney                    | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Pancreas                  |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Peripheral Nerve, Sciatic | Axon          | Degeneration          | Mild                |
| * Pituitary Gland           | Pars Distalis | Adenoma               |                     |
| [ Adenoma TGLs = 2-4 ]      |               |                       |                     |
| * Salivary Glands           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Skeletal Muscle           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder           |               | Infiltration Cellular | Lymphocyte, Mild    |

Animal Note: TGL 1 = NCL

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 156

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-156

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLs = 1-16 ]

---

Animal Note: TGL 2 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 157

TRT#: 2

SEX: Female

DAY ON TEST: 562

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-157

ORGAN AND ACCOUNTABLE SITE STATUS

\* Salivary Glands

\* Spleen

\* Stomach, Forestomach

\* Urinary Bladder

\* Uterus

Endometrium

Infiltration Cellular

Extramedullary Hematopoiesis

Histiocytic Sarcoma

Squamous Cell Papilloma

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Mild

Lymphocyte, Mild

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

Animal Note: TGLs 4-6 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 159

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Spinal Cord
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Eye
- \* Nerve Trigeminal
- \* Ovary
- \* Pituitary Gland

INSUFFICIENT TISSUE

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Brain

OBSERVATIONS

- \* Harderian Gland  
Note: One Harderian Gland examined.
  - \* Parathyroid Gland  
Note: One parathyroid gland examined.
  - \* Salivary Glands
  - \* Skeletal Muscle
  - \* Urinary Bladder
  - \* Uterus  
Endometrium
- [ Hyperplasia TGLs = 1-23RT ]

Infiltration Cellular      Lymphocyte, Mild

Infiltration Cellular      Lymphocyte, Mild

Infiltration Cellular      Lymphocyte, Minimal

Infiltration Cellular      Lymphocyte, Mild

Hyperplasia      Cystic, Moderate

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 160

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Aorta                     | * Bone                   | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                  |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          | * Skin                      |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                             |

MISSING

- |                  |                   |                    |                     |
|------------------|-------------------|--------------------|---------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Nerve Trigeminal | * Parathyroid Gland |
|------------------|-------------------|--------------------|---------------------|

INSUFFICIENT TISSUE

- \* Brain

OBSERVATIONS

- |                                        |             |                        |                     |
|----------------------------------------|-------------|------------------------|---------------------|
| * Clitoral Gland                       |             |                        |                     |
| Note: One clitoral gland examined.     |             |                        |                     |
| * Eye                                  |             |                        |                     |
| Note: One eye examined.                |             |                        |                     |
| * Harderian Gland                      |             | Infiltration Cellular  | Lymphocyte, Minimal |
| * Liver                                |             | Hepatocellular Adenoma |                     |
| [ Hepatocellular Adenoma TGLs = 3-22 ] |             |                        |                     |
| * Ovary                                |             |                        |                     |
| Note: One ovary examined.              |             |                        |                     |
| * Salivary Glands                      |             | Infiltration Cellular  | Lymphocyte, Minimal |
| * Urinary Bladder                      |             | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus                               | Endometrium | Hyperplasia            | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-23RT ]          |             |                        |                     |

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 162

TRT#: 2

SEX: Female

DAY ON TEST: 604

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                          |                             |
|-----------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland           | * Esophagus              | * Eye                       |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Mammary Gland             |
| * Nerve Trigeminal          | * Ovary                    | * Pancreas               | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Skin                   | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular       | * Thyroid Gland          | * Trachea                   |

MISSING

- \* Thymus

OBSERVATIONS

- |                                    |                                                             |                                   |                     |
|------------------------------------|-------------------------------------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular                                                 | Hyperplasia<br>Lymphoma Malignant | Mild                |
| * Brain                            |                                                             | Mineral                           | Minimal             |
| * Clitoral Gl                      |                                                             |                                   |                     |
| Note: One clitoral gland examined. |                                                             |                                   |                     |
| * Gallbladder                      |                                                             | Lymphoma Malignant                |                     |
| * Harderian Gland                  |                                                             | Infiltration Cellular             | Lymphocyte, Minimal |
| * Intestine Large, Rectum          |                                                             | Lymphoma Malignant                |                     |
| * Kidney                           | Interstitium                                                | Infiltration Cellular             | Lymphocyte, Mild    |
| * Liver                            |                                                             | Lymphoma Malignant                |                     |
| * Lung                             |                                                             | Lymphoma Malignant                |                     |
|                                    | [ Lymphoma Malignant TGLs = 5-10 ]                          |                                   |                     |
| Lymph Node                         |                                                             | Lymphoma Malignant                |                     |
|                                    | [ Lymphoma Malignant TGLs = 6-21, 7-22, 8-23, 9-24, 14-20 ] |                                   |                     |
| * Lymph Node, Mandibular           |                                                             | Hemorrhage<br>Lymphoma Malignant  | Moderate            |
|                                    | [ Hemorrhage TGLs = 12-19 ]                                 |                                   |                     |
|                                    | [ Lymphoma Malignant TGLs = 11-9 ]                          |                                   |                     |
| * Lymph Node, Mesenteric           |                                                             | Lymphoma Malignant                |                     |
|                                    | [ Lymphoma Malignant TGLs = 10-15 ]                         |                                   |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 162

TRT#: 2

SEX: Female

DAY ON TEST: 604

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-162

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Lymphoma Malignant	
* Parathyroid Gland			
Note: One parathyroid gland examined.			
* Salivary Glands		Lymphoma Malignant	
* Skeletal Muscle		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 2-12 ]	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia	TGLs = 4-16 ]	

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Liver Lymphoma Malignant

- Lung Lymphoma Malignant

Animal Note: TGL 1 = NST; TGLs 3 & 13 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 163

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skin
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                                                                                                                                                       |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Brain</li> <li>* Harderian Gland</li> <li>* Kidney</li> <li>* Liver</li> <li>Lymph Node</li> </ul> | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>Interstitialium</li> <li>Pancreatic</li> <li>Bronchial</li> <li>Fat</li> <li>Axon</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Inflammation</li> <li>Hyperplasia</li> <li>Hyperplasia</li> <li>Infiltration Cellular</li> <li>Degeneration</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Mild</li> <li>Mild</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Chronic Active, Mild</li> <li>Lymphoid, Moderate</li> <li>Lymphoid, Mild</li> <li>Lymphocyte, Moderate</li> <li>Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphoid, Mild</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
- [ Hyperplasia TGLs = 3-19 ]
- [ Hyperplasia TGLs = 4-20 ]
- Mesentery
- \* Ovary
- Note: One ovary examined.
- \* Peripheral Nerve, Sciatic
- \* Salivary Glands
- \* Skeletal Muscle
- \* Spleen
- \* Thyroid GI
- Note: One thyroid gland examined.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 163

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-163

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLs = 1-16 ]

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 164

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal
- \* Ovary

INSUFFICIENT TISSUE

- \* Brain
- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Eye  
    Note: One eye examined.
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                  Interstitium                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                      Hepatocellular Adenoma                      Multiple
- [ Hepatocellular Adenoma    TGLs = 2-19, 3-20 ]
- Mesentery                              Fat                                      Necrosis                              Moderate
- [ Necrosis    TGLs = 1-6 ]
- \* Parathyroid Gland  
    Note: One parathyroid gland examined.
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Skeletal Muscle                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                      Endometrium                      Hyperplasia                      Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE







**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 166

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-166

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Thyroid GI

Note: One thyroid gland examined.

---

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

---

Animal Note: TGLs 2 & 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 167

TRT#: 2

SEX: Female

DAY ON TEST: 551

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pancreas
- \* Spinal Cord
- \* Uterus
- \* Aorta
- \* Eye
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Bone
- \* Heart
- \* Kidney
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Trachea
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Urinary Bladder

MISSING

- \* Esophagus
- \* Intestine Small, Duodenum
- \* Pituitary Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Spleen
- \* Intestine Large, Cecum
- \* Stomach, Forestomach
- \* Intestine Large, Colon
- \* Stomach, Glandular
- \* Intestine Small, Ileum

INSUFFICIENT TISSUE

- \* Lymph Node, Mesenteric

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Adren Medulla  
    Note: One adrenal medulla examined.
- \* Bone Marrow                                              Hypercellularity                      Moderate
- \* Brain                                                              Mineral                                              Mild
- Osteosarcoma                                              Metastatic (Skeletal Muscle)
- \* Clitoral GI  
    Note: One clitoral gland examined.
- \* Harderian Gland                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                                              Fatty Change                                              Marked
- [ Fatty Change    TGLs = 1-12 ]
- \* Lung                                                              Osteosarcoma                                              Metastatic (Skeletal Muscle)
- \* Parathyroid GI  
    Note: One parathyroid gland examined.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 167

TRT#: 2

SEX: Female

DAY ON TEST: 551

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-167

ORGAN AND ACCOUNTABLE SITE STATUS

\* Skeletal Muscle

Infiltration Cellular

Lymphocyte, Minimal

Osteosarcoma

[ Osteosarcoma TGLs = 2-19 ]

\* Skin

Ulcer

Moderate

\* Thymus

Atrophy

Marked

\* Thyroid GI

Note: One thyroid gland examined.

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Osteosarcoma



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 168

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 579

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-168

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 169

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                    | * Bone Marrow             | * Brain Trigeminal Ganglion |
| * Esophagus              | * Eye                      | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           | * Nerve Trigeminal          |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skeletal Muscle          | * Skin                    | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- |                  |                          |         |
|------------------|--------------------------|---------|
| * Clitoral Gland | * Lymph Node, Mesenteric | * Ovary |
|------------------|--------------------------|---------|

INSUFFICIENT TISSUE

- \* Uterus

OBSERVATIONS

- |                                       |                 |                       |                       |
|---------------------------------------|-----------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular     | Hyperplasia           | Mild                  |
| * Bone                                |                 | Fibro-Osseous Lesion  | Mild                  |
| * Brain                               |                 | Mineral               | Minimal               |
| * Harderian Gland                     |                 | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                              | Interstitialium | Infiltration Cellular | Lymphocyte, Minimal   |
|                                       |                 | Nephropathy           | Chronicprogr, Minimal |
| * Parathyroid GI                      |                 |                       |                       |
| Note: One parathyroid gland examined. |                 |                       |                       |
| * Peripheral Nerve, Sciatic           | Axon            | Degeneration          | Minimal               |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 170

TRT#: 2

SEX: Female

DAY ON TEST: 745

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Liver
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Ovary

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
  - \* Brain                                      Mineral                                      Mild
  - \* Clitoral Gland  
    Note: One clitoral gland examined.
  - \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Heart                                      Infiltration Cellular                      Mixed Cell, Mild
  - \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Parathyroid Gland  
    Note: One parathyroid gland examined.
  - \* Peripheral Nerve, Sciatic              Axon                                      Degeneration                      Minimal
  - \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Minimal
  - \* Urinary Bladder                              Infiltration Cellular                      Lymphocyte, Mild
  - \* Uterus                                      Dilation                                      Mild
  - Endometrium                                      Hyperplasia                                      Cystic, Minimal
- [ Dilation    TGLs = 1-19RT ]  
[ Hyperplasia    TGLs = 1-19RT ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 171

TRT#: 2

SEX: Female

DAY ON TEST: 743

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Spleen
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Nerve Trigeminal

OBSERVATIONS

- \* Brain Mineral Minimal
- \* Clitoral Gl  
Note: One clitoral gland examined.
- \* Kidney Infarct Minimal
- \* Liver Interstitial Infiltration Cellular Lymphocyte, Mild  
Hepatocyte Fatty Change Focal, Minimal  
Hepatocellular Adenoma
- \* Ovary Cyst
- \* Parathyroid Gl
- \* Parathyroid Gl  
Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic Degeneration Minimal
- \* Pituitary Gland Adenoma
- [ Adenoma TGLs = 3-4 ]
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Skin Lipoma
- [ Lipoma TGLs = 2-19 ]
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Mild
- \* Uterus Dilation Mild  
Endometrium Hyperplasia Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 171

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-171

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 172

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pituitary Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skin
- \* Thymus

MISSING

- \* Lymph Node, Mesenteric
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Clitoral Gland
- Note: One clitoral gland examined.
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                              Inflammation                                      Focal, Minimal
- \* Ovary                                              Follicle                                              Cyst
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic                      Axon                                              Degeneration                                      Minimal
- \* Spleen                                              Hyperplasia                                      Lymphoid, Mild
- \* Urinary Bladder                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Uterus                                              Dilation                                              Marked

[ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 173

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-173

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Ulcer TGLs = 13-19, 14-9 ]

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 2-12 ]

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

---

Animal Note: TGL 4 = NCL

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 175

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 744

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-175

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 2 = NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 176

TRT#: 2

SEX: Female

DAY ON TEST: 724

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Mammary Gland
- \* Salivary Glands
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Spinal Cord
- \* Clitoral Gland
- \* Heart
- \* Islets, Pancreatic
- \* Peripheral Nerve, Sciatic
- \* Thymus

MISSING

- \* Adrenal Cortex
- \* Thyroid Gland
- \* Adrenal Medulla
- \* Urinary Bladder
- \* Aorta
- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Nose
- \* Ovary
- \* Pituitary Gland

OBSERVATIONS

- \* Brain
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Kidney
- \* Liver
- \* Lung
- Lymph Node
- \* Lymph Node, Mesenteric
- Mesentery
- Interstitial
- Mineral
- Infiltration Cellular
- Fibrosarcoma
- Fibrosarcoma
- Fibrosarcoma
- Infiltration Cellular
- Fibrosarcoma
- Infiltration Cellular
- Fibrosarcoma
- Hemorrhage
- Fibrosarcoma
- Fibrosarcoma
- Minimal
- Lymphocyte, Minimal
- Metastatic (Skin)
- Metastatic (Skin)
- Metastatic (Skin)
- Lymphocyte, Mild
- Metastatic (Skin)
- Lymphocyte, Mild
- Metastatic (Skin)
- Mild
- Metastatic (Skin)
- Metastatic (Skin)
- Metastatic (Skin)
- Metastatic (Skin)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 176

TRT#: 2

SEX: Female

DAY ON TEST: 724

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-176

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibrosarcoma TGLs = 2-19 ]		
* Pancreas	Fibrosarcoma	Metastatic (Skin)
[ Fibrosarcoma TGLs = 8-6 ]		
* Parathyroid GI		
Note: One parathyroid gland examined.		
* Skin	Subcut Tiss	
[ Fibrosarcoma TGLs = 9-23 ]	Fibrosarcoma	
* Spleen	Extramedullary Hematopoiesis	Moderate
[ Extramedullary Hematopoiesis TGLs = 3-12 ]		
* Stomach, Forestomach	Fibrosarcoma	Metastatic (Skin)
* Stomach, Glandular	Fibrosarcoma	Metastatic (Skin)
* Uterus	Fibrosarcoma	Metastatic (Skin)

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

Animal Note: TGL 10 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 177

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          | * Skin                      |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular        |
| * Thymus                    | * Trachea                |                            |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                     |             |                       |                     |
|-------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                    | Subcapsular | Hyperplasia           | Mild                |
| * Adren Medulla                     |             |                       |                     |
| Note: One adrenal medulla examined. |             |                       |                     |
| * Bone                              |             | Fibro-Osseous Lesion  | Mild                |
| * Brain                             |             | Mineral               | Mild                |
| * Harderian Gland                   |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                            |             | Infarct               | Mild                |
| * Lung                              |             | Hemorrhage            | Mild                |
| Lymph Node                          | Bronchial   | Hyperplasia           | Lymphoid, Mild      |
| [ Hyperplasia TGLs = 6-19 ]         |             |                       |                     |
| * Salivary Glands                   |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Thyroid Gland                     | Follicle    | Cyst                  |                     |
| * Urinary Bladder                   |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                            |             | Angiectasis           | Moderate            |
|                                     |             | Dilation              | Moderate            |
|                                     | Endometrium | Hyperplasia           | Cystic, Moderate    |
| [ Angiectasis TGLs = 3-16 ]         |             |                       |                     |
| [ Dilation TGLs = 4-16 ]            |             |                       |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 177

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-177

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 4-16 ]

Animal Note: TGLs 1, 2, & 5 = NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 179

TRT#: 2

SEX: Female

DAY ON TEST: 744

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular

MISSING

- \* Lymph Node, Mandibular
- \* Ovary

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Moderate
- \* Brain                                              Mineral                                              Mild
- \* Clitoral GI
- Note: One clitoral gland examined.
- \* Harderian Gland                                              Adenoma                                              Lymphocyte, Minimal
- [ Adenoma    TGLs = 5-5 ]                      Infiltration Cellular
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                                                      Basophilic Focus
- Lymph Node                                              Axillary                                              Infiltration Cellular                      Lymphocyte, Minimal
- Axillary                                              Pigment                                              Mixed Cell, Mild
- [ Infiltration Cellular    TGLs = 3-20 ]
- [ Pigment    TGLs = 4-20 ]
- \* Pancreas                                                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic                      Axon                                              Degeneration                      Minimal
- \* Salivary Glands                                                                      Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 179

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 744

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-179

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLs = 1-19 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilation	Moderate
[ Dilation TGLs = 2-16 ]			

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 181

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

MISSING

- \* Aorta
- \* Harderian Gland
- \* Nerve Trigeminal

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Mild
- \* Kidney                                              Infarct                                      Mild
- Mesentery                                      Fat                                      Inflammation                      Chronic Active, Mild
- Fat                                      Necrosis                                      Mild
- [ Inflammation    TGLs = 3-15 ]
- [ Necrosis        TGLs = 3-15 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Salivary Glands                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Spleen                                              Hyperplasia                                      Lymphoid, Mild
- \* Uterus                                              Endometrium                                      Hyperplasia                                      Cystic, Minimal
- [ Hyperplasia    TGLs = 1-22RT ]

Animal Note: TGLs 2 & 4 = NCL

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 182

TRT#: 2

SEX: Female

DAY ON TEST: 597

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-182

ORGAN AND ACCOUNTABLE SITE STATUS

Note: One parathyroid gland examined.

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Spleen

Extramedullary Hematopoiesis

Mild

[ Extramedullary Hematopoiesis TGLs = 4-12 ]

\* Thymus

Atrophy

Marked

[ Atrophy TGLs = 5-6 ]

\* Uterus

Dilation

Mild

Endometrium

Hyperplasia

Cystic, Mild

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: TGLs 6 & 7 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 183

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-183

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Leiomyoma TGLs = 2-19 ]

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 184

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-184

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hemorrhage

Marked

Hyperplasia

Cystic, Moderate

[ Hemorrhage TGLs = 1-16, 2-16 ]

[ Hyperplasia TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 185

TRT#: 2

SEX: Female

DAY ON TEST: 751

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                             |                           |
|-----------------------------|----------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                      | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus                | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Kidney                    | * Lung                    |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             | * Nerve Trigeminal        |
| * Nose                      | * Ovary                    | * Peripheral Nerve, Sciatic | * Skeletal Muscle         |
| * Skin                      | * Spinal Cord              | * Spleen                    | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                   | * Trachea                   |                           |

MISSING

- |                             |                          |                     |                   |
|-----------------------------|--------------------------|---------------------|-------------------|
| * Brain Trigeminal Ganglion | * Intestine Small, Ileum | * Parathyroid Gland | * Pituitary Gland |
| * Thyroid Gland             |                          |                     |                   |

OBSERVATIONS

- |                      |                                        |                        |                     |
|----------------------|----------------------------------------|------------------------|---------------------|
| * Adrenal Cortex     | Subcapsular                            | Hyperplasia            | Mild                |
| * Brain              |                                        | Mineral                | Mild                |
| * Harderian Gland    |                                        | Infiltration Cellular  | Lymphocyte, Minimal |
| * Islets, Pancreatic |                                        | Hyperplasia            | Mild                |
| * Liver              |                                        | Hepatocellular Adenoma | Multiple            |
|                      | [ Hepatocellular Adenoma TGLs = 1-12 ] |                        |                     |
| * Pancreas           |                                        | Infiltration Cellular  | Lymphocyte, Minimal |
| * Salivary Glands    |                                        | Infiltration Cellular  | Lymphocyte, Minimal |
| * Urinary Bladder    |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus             | Endometrium                            | Hyperplasia            | Cystic, Mild        |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 186

TRT#: 2

SEX: Female

DAY ON TEST: 751

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Skeletal Muscle

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                     |



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 188

TRT#: 2

SEX: Female

DAY ON TEST: 746

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thymus
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder

MISSING

- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Clitoral GI  
    Note: One clitoral gland examined.
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- Renal Tubule                                      Mineral                                      Minimal
- \* Ovary                                      Cyst
- Note: One ovary examined.
- \* Spleen                                      Atrophy                                      Moderate
- Capsule                                      Fibrosis                                      Moderate
- [ Atrophy    TGLs = 2-12 ]
- \* Uterus                                      Dilatation                                      Moderate
- [ Dilatation    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 189

TRT#: 2

SEX: Female

DAY ON TEST: 568

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                 | * Eye                     |
| * Gallbladder               | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Mammary Gland             | * Nerve Trigeminal       | * Nose                      | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Skeletal Muscle           | * Skin                   | * Spinal Cord               | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                   |                           |

OBSERVATIONS

- |                          |                                           |                                                 |                      |
|--------------------------|-------------------------------------------|-------------------------------------------------|----------------------|
| * Adrenal Cortex         | Bilateral<br>Subcapsular                  | Extramedullary Hematopoiesis<br>Hyperplasia     | Minimal<br>Mild      |
| * Brain                  |                                           | Mineral                                         | Minimal              |
| * Harderian Gland        |                                           | Infiltration Cellular                           | Lymphocyte, Minimal  |
| * Heart                  | Myocardium                                | Cardiomyopathy<br>Mineral                       | Mild<br>Minimal      |
| * Kidney                 |                                           | Histiocytic Sarcoma                             |                      |
| * Liver                  |                                           | Histiocytic Sarcoma                             |                      |
|                          | [ Histiocytic Sarcoma TGLs = 7-12, 8-12 ] |                                                 |                      |
| * Lung                   |                                           | Histiocytic Sarcoma                             |                      |
| Lymph Node               | Iliac<br>Renal                            | Hemorrhage<br>Hemorrhage<br>Histiocytic Sarcoma | Moderate<br>Moderate |
|                          | [ Hemorrhage TGLs = 4-19 ]                |                                                 |                      |
|                          | [ Hemorrhage TGLs = 6-20 ]                |                                                 |                      |
|                          | [ Histiocytic Sarcoma TGLs = 4-19, 6-20 ] |                                                 |                      |
| * Lymph Node, Mandibular |                                           | Histiocytic Sarcoma                             |                      |
| * Lymph Node, Mesenteric |                                           | Histiocytic Sarcoma                             |                      |
| Mesentery                | Fat                                       | Necrosis                                        | Moderate             |
|                          | [ Necrosis TGLs = 1-21 ]                  |                                                 |                      |
| * Parathyroid Gland      |                                           |                                                 |                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 189

TRT#: 2

SEX: Female

DAY ON TEST: 568

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-189

ORGAN AND ACCOUNTABLE SITE STATUS

Note: One parathyroid gland examined.

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 3-12 ]

\* Thymus

Atrophy

Marked

[ Atrophy TGLs = 9-6 ]

\* Urinary Bladder

Histiocytic Sarcoma

\* Uterus

Histiocytic Sarcoma

[ Histiocytic Sarcoma TGLs = 2-21 ]

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

Animal Note: TGL 5 = NCL; TGL 10 = NST

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 190

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-190

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland             | * Nose                   |
| * Ovary                    | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Salivary Glands          | * Skeletal Muscle           | * Spinal Cord               | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          |
| * Trachea                  |                             |                             |                          |

**MISSING**

- \* Nerve Trigeminal

**OBSERVATIONS**

- |                                    |              |                       |                     |
|------------------------------------|--------------|-----------------------|---------------------|
| * Brain                            |              | Mineral               | Mild                |
| * Clitoral Gland                   |              |                       |                     |
| Note: One clitoral gland examined. |              |                       |                     |
| * Harderian Gland                  |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                           | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| Lymph Node                         | Mediastinal  | Hyperplasia           | Lymphoid, Mild      |
| [ Hyperplasia TGLs = 5-21 ]        |              |                       |                     |
| * Pancreas                         |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Skin                             | Subcut Tiss  | Hemangiosarcoma       |                     |
| [ Hemangiosarcoma TGLs = 2-20 ]    |              |                       |                     |
| * Urinary Bladder                  |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                           | Endometrium  | Hyperplasia           | Cystic, Minimal     |
| [ Hyperplasia TGLs = 3-24RT ]      |              |                       |                     |

Animal Note: TGLs 1 & 4 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 191

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Aorta                    | * Bone                    | * Bone Marrow               | * Brain Trigeminal Ganglion |
| * Eye                      | * Gallbladder             | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                     |
| * Lung                     | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                      |
| * Ovary                    | * Pancreas                | * Peripheral Nerve, Sciatic | * Pituitary Gland           |
| * Salivary Glands          | * Skeletal Muscle         | * Skin                      | * Spinal Cord               |
| * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                             |

MISSING

- |                          |                    |                     |             |
|--------------------------|--------------------|---------------------|-------------|
| * Adrenal Cortex         | * Adrenal Medulla  | * Clitoral Gland    | * Esophagus |
| * Lymph Node, Mandibular | * Nerve Trigeminal | * Parathyroid Gland |             |

OBSERVATIONS

- |                             |             |                       |                     |
|-----------------------------|-------------|-----------------------|---------------------|
| * Brain                     |             | Mineral               | Minimal             |
| * Harderian Gland           |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                     |             |                       |                     |
| Note: One ovary examined.   |             |                       |                     |
| * Uterus                    | Endometrium | Hyperplasia           | Cystic, Mild        |
| [ Hyperplasia TGLs = 1-16 ] |             |                       |                     |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 192

TRT#: 2

SEX: Female

DAY ON TEST: 642

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                           |
|--------------------------|-----------------------------|--------------------------|---------------------------|
| * Adrenal Medulla        | * Aorta                     | * Clitoral Gland         | * Esophagus               |
| * Eye                    | * Intestine Large, Cecum    | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic     | * Lymph Node, Mesenteric  |
| * Mammary Gland          | * Nerve Trigeminal          | * Nose                   | * Pancreas                |
| * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle         |
| * Skin                   | * Spinal Cord               | * Stomach, Forestomach   | * Stomach, Glandular      |
| * Thymus                 | * Thyroid Gland             | * Trachea                | * Urinary Bladder         |

MISSING

- \* Brain Trigeminal Ganglion

AUTO PRECLUDES DIAG.

- |               |                             |
|---------------|-----------------------------|
| * Gallbladder | * Intestine Small, Duodenum |
|---------------|-----------------------------|

OBSERVATIONS

- |                                                                                                                                                |                               |                       |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------|----------------------|
| * Adrenal Cortex                                                                                                                               | Subcapsular                   | Hyperplasia           | Mild                 |
| * Bone                                                                                                                                         |                               | Osteosarcoma          |                      |
| Note: The lesion in the femur looks much like hyperostosis, but it is the likely origin of the metastatic osteosarcoma in the lungs and liver. |                               |                       |                      |
| * Bone Marrow                                                                                                                                  |                               | Hypocellularity       | Moderate             |
| * Brain                                                                                                                                        |                               | Hemorrhage            | Mild                 |
|                                                                                                                                                |                               | Mineral               | Mild                 |
|                                                                                                                                                |                               | Necrosis              | Mild                 |
| * Harderian Gland                                                                                                                              |                               | Infiltration Cellular | Lymphocyte, Minimal  |
| * Heart                                                                                                                                        |                               | Bacteria              |                      |
|                                                                                                                                                | Myocardium                    | Inflammation          | Chronic Active, Mild |
|                                                                                                                                                |                               | Thrombus              | Moderate             |
| Note: Septic Thrombus                                                                                                                          |                               |                       |                      |
| * Kidney                                                                                                                                       | Bilateral                     | Infarct               | Moderate             |
|                                                                                                                                                | [ Infarct TGLs = 3-13, 4-13 ] |                       |                      |
| * Liver                                                                                                                                        |                               | Osteosarcoma          | Metastatic (Bone)    |
|                                                                                                                                                | [ Osteosarcoma TGLs = 5-12 ]  |                       |                      |
| * Lung                                                                                                                                         |                               | Osteosarcoma          | Metastatic (Bone)    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 192

TRT#: 2

SEX: Female

DAY ON TEST: 642

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-192

ORGAN AND ACCOUNTABLE SITE STATUS

[ Osteosarcoma TGLs = 6-19, 7-20 ]

\* Lymph Node, Mandibular

Hemorrhage

Minimal

Mesentery

Fat

Necrosis

Mild

[ Necrosis TGLs = 2-21 ]

\* Ovary

Cyst

\* Parathyroid GI

Note: One parathyroid gland examined.

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Spleen

Extramedullary Hematopoiesis

Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Lung Osteosarcoma Bone

CONTRIBUTORY CAUSE OF DEATH

- Liver Osteosarcoma Bone

Animal Note: TGL 1 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 193

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                   | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle        | * Skin                     | * Spinal Cord               |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                |                            |                             |

MISSING

- \* Aorta

INSUFFICIENT TISSUE

- \* Ovary

OBSERVATIONS

- |                                    |                |                                |                       |
|------------------------------------|----------------|--------------------------------|-----------------------|
| * Adrenal Cortex                   | Subcapsular    | Hyperplasia                    | Mild                  |
| * Brain                            |                | Mineral                        | Mild                  |
| * Clitoral Gland                   |                |                                |                       |
| Note: One clitoral gland examined. |                |                                |                       |
| * Harderian Gland                  |                | Infiltration Cellular          | Lymphocyte, Minimal   |
| * Kidney                           | Interstitial   | Infiltration Cellular          | Lymphocyte, Mild      |
|                                    |                | Nephropathy                    | Chronicprogr, Minimal |
| * Lung                             |                | Alveolar/Bronchiolar Carcinoma |                       |
|                                    | Alveolar Epith | Hyperplasia                    | Focal, Mild           |
| [ Alveolar/Bronchiolar Carcinoma   | TGLs = 4-10 ]  |                                |                       |
| Lymph Node                         | Bronchial      | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung)     |
| [ Alveolar/Bronchiolar Carcinoma   | TGLs = 3-19 ]  |                                |                       |
| Mesentery                          | Fat            | Necrosis                       | Moderate              |
| [ Necrosis                         | TGLs = 2-6 ]   |                                |                       |
| * Pancreas                         |                | Infiltration Cellular          | Lymphocyte, Minimal   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 193

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-193

ORGAN AND ACCOUNTABLE SITE STATUS

\* Parathyroid GI

Note: One parathyroid gland examined.

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Dilation

Moderate

Endometrium

Hyperplasia

Cystic, Moderate

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 194

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-194

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One parathyroid gland examined.

\* Urinary Bladder

\* Uterus

Endometrium

[ Hyperplasia TGLs = 2-16, 1-19RT ]

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Moderate

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 195

TRT#: 2

SEX: Female

DAY ON TEST: 750

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                             |
|---------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Mammary Gland             |
| * Nerve Trigeminal        | * Nose                      | * Ovary                  | * Peripheral Nerve, Sciatic |
| * Pituitary Gland         | * Salivary Glands           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder           |

MISSING

- |                             |                          |                          |                     |
|-----------------------------|--------------------------|--------------------------|---------------------|
| * Brain Trigeminal Ganglion | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland |
|-----------------------------|--------------------------|--------------------------|---------------------|

OBSERVATIONS

- |                                     |              |                       |                     |
|-------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                    | Subcapsular  | Hyperplasia           | Mild                |
| * Harderian Gland                   |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                            | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
|                                     |              | Metaplasia            | Osseous             |
| * Pancreas                          |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                            | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16, 1-19RT ] |              |                       |                     |





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 197

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 0 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-197

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 1-16 ]

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**PRIMARY CAUSE OF DEATH** - Liver Necrosis

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Animal Note: TGLs 2 & 4 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 200

TRT#: 2

SEX: Female

DAY ON TEST: 648

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Ovary

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla  
    Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Mild
- \* Clitoral Gland  
    Note: One clitoral gland examined.
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- Mesentery                                      Fat                                      Necrosis                                      Moderate
- [ Necrosis    TGLs = 2-20 ]
- \* Parathyroid Gland  
    Note: One parathyroid gland examined.
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Mild
- \* Skin                                              Subcut Tiss                                      Sarcoma
- [ Sarcoma    TGLs = 1-19 ]
- \* Uterus                                              Endometrium                                      Hyperplasia                                      Cystic, Mild

PRIMARY CAUSE OF DEATH                      - Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 577

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-203

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Histiocytic Sarcoma	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Skeletal Muscle		Mineral	Minimal
* Spleen		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 4-12 ]		
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilation	Mild
	[ Dilation TGLs = 1-16 ]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH - Lung Histiocytic Sarcoma

Animal Note: TGLs 2, 9, 10, & 11 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 743

DOSE: 0 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain                    | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                     | * Ovary                     | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Skeletal Muscle          | * Skin                      | * Spinal Cord               | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          |
| * Trachea                  |                             |                             |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                     |              |                       |                     |
|-------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                    |              | Adenoma               |                     |
|                                     | Subcapsular  | Hyperplasia           | Mild                |
| * Adren Medulla                     |              |                       |                     |
| Note: One adrenal medulla examined. |              |                       |                     |
| * Harderian Gland                   |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                            | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                             |              |                       |                     |
| Note: One ovary examined.           |              |                       |                     |
| * Pancreas                          |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Salivary Glands                   |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                   |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                            | Endometrium  | Hyperplasia           | Cystic, Mild        |

Animal Note: TGL=1 - NCL





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 607

DOSE: 0 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skin
- \* Thymus
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Spinal Cord
- \* Trachea

MISSING

- \* Aorta
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Hemorrhage Mild
    - Hyperplasia Mild
    - Hemorrhage Mild
- \* Adrenal Medulla
  - Note: One adrenal medulla examined.
- \* Brain
  - Mineral Mild
- \* Harderian Gland
  - Infiltration Cellular Lymphocyte, Minimal
- \* Kidney
  - Interstitial
    - Infiltration Cellular Lymphocyte, Mild
    - Eosinophilic Focus
    - Hepatocellular Adenoma Multiple
- \* Liver
  - [ Eosinophilic Focus TGLs = 4-12 ]
  - [ Hepatocellular Adenoma TGLs = 3-12, 5-12 ]
- \* Lung
  - Carcinoma Metastatic (Thyroid Gland)
- \* Pancreas
  - Infiltration Cellular Lymphocyte, Mild
- \* Salivary Glands
  - Infiltration Cellular Lymphocyte, Mild
- \* Skeletal Muscle
  - Infiltration Cellular Lymphocyte, Mild
- \* Spleen
  - Extramedullary Hematopoiesis Mild
- \* Thyroid Gland
  - C Cell
    - Carcinoma
- \* Urinary Bladder
  - [ Carcinoma TGLs = 2-8 ]
  - Infiltration Cellular Lymphocyte, Mild
- \* Uterus
  - Dilation Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 207

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 607

**DOSE:** 0 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-207

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Endometrium

Hyperplasia

Cystic, Mild

[ Dilation TGLs = 1-16 ]

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PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

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**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 208

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 0 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-208

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nerve Trigeminal	* Nose
* Pancreas	* Peripheral Nerve, Sciatic	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

**MISSING**

* Parathyroid Gland	* Thyroid Gland
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**INSUFFICIENT TISSUE**

* Lymph Node, Mesenteric	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Gallbladder		Infiltration Cellular	Lymphocyte, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Kidney		Infarct	Mild
	Interstitialium	Infiltration Cellular	Lymphocyte, Mild
* Liver		Infiltration Cellular	Lymphocyte, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cyst	
Note: One ovary examined.			
[ Cyst TGLs = 1-16 ]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLs = 2-16 ]			

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 210

TRT#: 2

SEX: Female

DAY ON TEST: 644

DOSE: 0 W/kg

DISP: Natural Death

HISTO: 12-5117-210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Lung
- \* Ovary
- \* Skin
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Uterus
- \* Bone
- \* Eye
- \* Mammary Gland
- \* Pituitary Gland
- \* Thymus
- \* Bone Marrow
- \* Heart
- \* Nose
- \* Skeletal Muscle
- \* Trachea

MISSING

- \* Clitoral Gland
- \* Parathyroid Gland
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pancreas

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- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Thyroid Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Spleen
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Stomach, Forestomach
- \* Intestine Large, Rectum
- \* Kidney
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Harderian Gland                                              Infiltration Cellular                                              Lymphocyte, Mild
- \* Liver                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 5-12 ]
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH                      - Liver    Necrosis

Animal Note: TGLs 1-4 and 6-9 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 638

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone Marrow            | * Brain                    |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Mammary Gland          | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland           | * Salivary Glands           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                   |                             |                          |                            |

MISSING

- |                          |                          |          |
|--------------------------|--------------------------|----------|
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Thymus |
|--------------------------|--------------------------|----------|

OBSERVATIONS

- |                                 |              |                              |                     |
|---------------------------------|--------------|------------------------------|---------------------|
| * Adrenal Cortex                | Subcapsular  | Hyperplasia                  | Mild                |
| * Bone                          |              | Hemangiosarcoma              |                     |
| * Harderian Gland               |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney                        | Interstitium | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver                         |              | Hepatocellular Adenoma       |                     |
| * Ovary                         |              |                              |                     |
| Note: One ovary examined.       |              |                              |                     |
| * Parathyroid Gland             |              |                              |                     |
| Note: One parathyroid examined. |              |                              |                     |
| * Peripheral Nerve, Sciatic     | Axon         | Degeneration                 | Mild                |
| * Spleen                        |              | Extramedullary Hematopoiesis | Mild                |
| * Urinary Bladder               |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Uterus                        | Endometrium  | Hyperplasia                  | Cystic, Moderate    |

[ Hyperplasia TGLs = 1-16 ]

PRIMARY CAUSE OF DEATH - Bone Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 752

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Mammary Gland             | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Salivary Glands          |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- |                          |                    |
|--------------------------|--------------------|
| * Lymph Node, Mesenteric | * Nerve Trigeminal |
|--------------------------|--------------------|

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                       |             |                       |                     |
|---------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular | Hyperplasia           | Mild                |
| * Brain                               |             | Mineral               | Minimal             |
| * Harderian Gland                     |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid GI                      |             |                       |                     |
| Note: One parathyroid gland examined. |             |                       |                     |
| * Spleen                              |             | Hyperplasia           | Lymphoid, Mild      |
| * Urinary Bladder                     |             | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium | Hyperplasia           | Cystic, Mild        |

[ Hyperplasia TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                          |
|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain                     | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic        | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                     | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Salivary Glands           | * Skeletal Muscle           | * Skin                   |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland             | * Urinary Bladder           |                          |

MISSING

- |                   |           |
|-------------------|-----------|
| * Pituitary Gland | * Trachea |
|-------------------|-----------|

OBSERVATIONS

- |                                    |              |                       |                     |
|------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular  | Hyperplasia           | Mild                |
| * Clitoral GI                      |              |                       |                     |
| Note: One clitoral gland examined. |              |                       |                     |
| * Harderian Gland                  |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                           | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                           | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-22RT ]      |              |                       |                     |

**Experiment Number:** 20105 - 78  
**Test Type:** CHRONIC  
**Route:** Whole Body Exposure  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Cell Phone Radiation: GSM  
**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017  
**Time Report Requested:** 13:43:11  
**First Dose M/F:** 06/18/12 / 06/18/12  
**Lab:** IIT

**ANIMAL ID:** 319

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-319

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Aorta	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nerve Trigeminal	* Nose	* Ovary	* Pancreas
* Peripheral Nerve, Sciatic	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

**MISSING**

* Adrenal Medulla	* Brain Trigeminal Ganglion	* Parathyroid Gland
-------------------	-----------------------------	---------------------

**INSUFFICIENT TISSUE**

\* Adrenal Cortex

**OBSERVATIONS**

* Brain		Mineral	Mild
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma	TGLs = 2-12, 3-12 ]		
Mesentery	Fat	Necrosis	Mild
[ Necrosis	TGLs = 1-20 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma	TGLs = 5-4 ]		
* Thymus		Cyst	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

Animal Note: TGL4 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thymus
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Clitoral Gland

OBSERVATIONS

- \* Harderian Gland
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Ovary
  - \* Spinal Cord
  - \* Urinary Bladder
  - \* Uterus
  - Artery
  - Interstitium
  - Follicle
  - Endometrium
  - Infiltration Cellular
  - Inflammation
  - Infarct
  - Infiltration Cellular
  - Metaplasia
  - Hemangiosarcoma
  - Hepatocellular Adenoma
  - Cyst
  - Necrosis
  - Infiltration Cellular
  - Congestion
  - Dilation
  - Hyperplasia
  - Lymphocyte, Minimal
  - Chronic Active, Moderate
  - Minimal
  - Lymphocyte, Minimal
  - Osseous
  - Mild
  - Lymphocyte, Minimal
  - Mild
  - Mild
  - Cystic, Minimal
- [ Hemangiosarcoma TGLs = 5-20, 6-24RT ]  
 [ Hepatocellular Adenoma TGLs = 4-24RT ]  
 [ Congestion TGLs = 2-23RT ]  
 [ Dilation TGLs = 1-23RT ]

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                             |
|---------------------------|-----------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone Marrow               | * Brain Trigeminal Ganglion |
| * Clitoral Gland          | * Esophagus                 | * Eye                       | * Gallbladder               |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                      | * Ovary                     |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland           |
| * Skeletal Muscle         | * Skin                      | * Spinal Cord               | * Spleen                    |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland             |
| * Trachea                 |                             |                             |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                    |              |                       |                     |
|------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular  | Hyperplasia           | Mild                |
| * Bone                             |              | Fibro-Osseous Lesion  | Moderate            |
| * Brain                            |              | Mineral               | Mild                |
| * Clitoral GI                      |              |                       |                     |
| Note: One clitoral gland examined. |              |                       |                     |
| * Kidney                           | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| Lymph Node                         | Iliac        | Hyperplasia           | Lymphoid, Mild      |
| [ Hyperplasia TGLs = 2-20 ]        |              |                       |                     |
| Mesentery                          | Fat          | Necrosis              | Mild                |
| [ Necrosis TGLs = 1-19 ]           |              |                       |                     |
| * Salivary Glands                  |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                  |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                           | Endometrium  | Hyperplasia           | Cystic, Mild        |
| [ Hyperplasia TGLs = 3-16.1RC ]    |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 562

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland             | Mesentery                | * Nose                      |
| * Ovary                     | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle           | * Spinal Cord            | * Stomach, Forestomach      |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder           |                             |                          |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |                                  |                                |                     |
|---------------------------------------|----------------------------------|--------------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular                      | Hyperplasia                    | Mild                |
| * Brain                               |                                  | Mineral                        | Mild                |
| * Harderian Gland                     |                                  | Adenoma                        |                     |
|                                       |                                  | Infiltration Cellular          | Lymphocyte, Minimal |
| * Kidney                              | Interstitium                     | Infiltration Cellular          | Lymphocyte, Minimal |
| * Parathyroid Gland                   |                                  |                                |                     |
| Note: One parathyroid gland examined. |                                  |                                |                     |
| * Salivary Glands                     |                                  | Infiltration Cellular          | Lymphocyte, Mild    |
| * Skin                                | Subcut Tiss                      | Malignant Fibrous Histiocytoma |                     |
|                                       |                                  | Ulcer                          | Marked              |
|                                       | [ Malignant Fibrous Histiocytoma | TGLs = 1-19 ]                  |                     |
|                                       | [ Ulcer TGLs = 1-19 ]            |                                |                     |
| * Spleen                              |                                  | Extramedullary Hematopoiesis   | Moderate            |
|                                       | [ Extramedullary Hematopoiesis   | TGLs = 4-12 ]                  |                     |
| * Uterus                              | Endometrium                      | Dilation                       | Mild                |
|                                       |                                  | Hyperplasia                    | Cystic, Mild        |
|                                       | [ Dilation TGLs = 3-16.1RC ]     |                                |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 322

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 562

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-322

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 3-16.1RC ]

---

**PRIMARY CAUSE OF DEATH** - Skin Subcut Tiss Malignant Fibrous Histiocytoma

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Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                   | * Pancreas                 | * Peripheral Nerve, Sciatic |
| * Salivary Glands           | * Skeletal Muscle        | * Skin                     | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland             |
| * Trachea                   |                          |                            |                             |

MISSING

- |                  |                     |
|------------------|---------------------|
| * Clitoral Gland | * Parathyroid Gland |
|------------------|---------------------|

OBSERVATIONS

- |                   |                                                 |                                                     |                         |
|-------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------|
| * Adrenal Cortex  | Subcapsular<br>Bilateral                        | Hyperplasia<br>Vacuolization Cytoplasmic<br>Mineral | Mild<br>Mild<br>Minimal |
| * Brain           |                                                 | Infiltration Cellular                               | Lymphocyte, Minimal     |
| * Harderian Gland |                                                 | Infiltration Cellular                               | Lymphocyte, Minimal     |
| * Kidney          | Interstitialium                                 | Alveolar/Bronchiolar Adenoma                        |                         |
| * Lung            | [ Alveolar/Bronchiolar Adenoma<br>TGLs = 3-10 ] |                                                     |                         |
| * Ovary           | Follicle                                        | Cyst                                                |                         |
|                   | [ Cyst TGLs = 1-16 ]                            |                                                     |                         |
| * Pituitary Gland | Pars Distalis                                   | Angiectasis                                         | Mild                    |
| * Spleen          |                                                 | Hyperplasia                                         | Lymphoid, Mild          |
| * Urinary Bladder |                                                 | Infiltration Cellular                               | Lymphocyte, Mild        |
| * Uterus          |                                                 | Dilation                                            | Moderate                |
|                   | [ Dilation TGLs = 2-16 ]                        |                                                     |                         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Gallbladder

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Clitoral GI  
    Note: One clitoral gland examined.
- \* Harderian Gland                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                              Hepatocellular Adenoma                      Infiltration Cellular                      Lymphocyte, Minimal  
    [ Hepatocellular Adenoma    TGLs = 6-12 ]
- \* Lung                                              Alveolar/Bronchiolar Adenoma                      Multiple  
    [ Alveolar/Bronchiolar Adenoma    TGLs = 4-10, 5-19 ]
- Mesentery                                              Fat                                              Necrosis                                              Moderate  
    [ Necrosis    TGLs = 3-6 ]
- \* Ovary  
    Note: One ovary examined.
- \* Parathyroid GI  
    Note: One parathyroid gland examined.
- \* Salivary Glands                                              Infiltration Cellular                      Lymphocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 326

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-326

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Dilation

Moderate

[ Dilation TGLs = 2-16 ]

---

Animal Note: TGL 1 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Pancreas                | * Peripheral Nerve, Sciatic | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- |                             |                    |                     |                   |
|-----------------------------|--------------------|---------------------|-------------------|
| * Brain Trigeminal Ganglion | * Nerve Trigeminal | * Parathyroid Gland | * Pituitary Gland |
|-----------------------------|--------------------|---------------------|-------------------|

OBSERVATIONS

- |                             |              |                       |                     |
|-----------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                     |              | Mineral               | Minimal             |
| * Kidney                    | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| Mesentery                   | Fat          | Necrosis              | Moderate            |
| [ Necrosis TGLs = 2-19 ]    |              |                       |                     |
| * Salivary Glands           |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                    | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ] |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 550

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                   |
| * Bone Marrow              | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Kidney                    | * Liver                  |
| * Lung                     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nerve Trigeminal         | * Nose                      | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Salivary Glands        |
| * Skeletal Muscle          | * Skin                      | * Spinal Cord               | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Uterus                    |                             |                          |

OBSERVATIONS

- |                                    |                       |                     |
|------------------------------------|-----------------------|---------------------|
| * Brain                            | Mineral               | Mild                |
| * Clitoral GI                      |                       |                     |
| Note: One clitoral gland examined. |                       |                     |
| * Harderian Gland                  | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                  | Infiltration Cellular | Lymphocyte, Minimal |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1-5 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                 | * Eye                     |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Lung                    |
| * Mammary Gland             | * Nose                   | * Peripheral Nerve, Sciatic | * Pituitary Gland         |
| * Skeletal Muscle           | * Skin                   | * Spinal Cord               | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland             | * Trachea                 |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

OBSERVATIONS

- |                                     |             |                                             |                    |
|-------------------------------------|-------------|---------------------------------------------|--------------------|
| * Adrenal Cortex                    | Subcapsular | Hyperplasia<br>Vacuolization Cytoplasmic    | Mild<br>Mild       |
| * Adren Medulla                     |             |                                             |                    |
| Note: One adrenal medulla examined. |             |                                             |                    |
| * Brain                             |             | Mineral                                     | Minimal            |
| * Gallbladder                       |             | Infiltration Cellular                       | Lymphocyte, Mild   |
| * Harderian Gland                   |             | Infiltration Cellular                       | Lymphocyte, Mild   |
| * Islets, Pancreatic                |             | Infiltration Cellular                       | Lymphocyte, Mild   |
| * Kidney                            |             | Lymphoma Malignant                          |                    |
| * Liver                             |             | Infiltration Cellular                       | Lymphocyte, Mild   |
| * Lymph Node, Mandibular            |             | Hyperplasia                                 | Lymphoid, Moderate |
| * Lymph Node, Mesenteric            |             | Lymphoma Malignant                          |                    |
| * Ovary                             |             | Cyst<br>Luteoma                             |                    |
| * Pancreas                          |             | Infiltration Cellular                       | Lymphocyte, Mild   |
| * Salivary Glands                   |             | Infiltration Cellular                       | Lymphocyte, Mild   |
| * Spleen                            |             | Lymphoma Malignant                          |                    |
| [ Lymphoma Malignant TGLs = 1-12 ]  |             |                                             |                    |
| * Urinary Bladder                   |             | Infiltration Cellular<br>Lymphoma Malignant | Lymphocyte, Mild   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 330

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-330

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                   | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands        | * Skeletal Muscle          | * Skin                      |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                             |

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Bone                                |              | Fibro-Osseous Lesion  | Mild                |
| * Brain                               |              | Mineral               | Mild                |
| * Clitoral GI                         |              |                       |                     |
| Note: One clitoral gland examined.    |              |                       |                     |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              |              | Infarct               | Mild                |
|                                       | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                               |              | Cyst                  |                     |
| * Pancreas                            | Duct         | Cyst                  |                     |
| [ Cyst TGLs = 2-6 ]                   |              |                       |                     |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              |              | Dilation              | Marked              |
| [ Dilation TGLs = 1-16 ]              |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 333

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-333

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGLs 2, 4, 5, 6, & 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

OBSERVATIONS

- |                   |                                        |                        |                     |
|-------------------|----------------------------------------|------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                            | Hyperplasia            | Mild                |
| * Brain           |                                        | Mineral                | Mild                |
| * Harderian Gland |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Kidney          | Interstitialium                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Liver           |                                        | Eosinophilic Focus     |                     |
|                   |                                        | Hepatocellular Adenoma |                     |
|                   |                                        | Infiltration Cellular  | Lymphocyte, Minimal |
|                   | [ Hepatocellular Adenoma TGLs = 2-12 ] |                        |                     |
| * Ovary           |                                        | Cyst                   |                     |
| * Pancreas        |                                        | Infiltration Cellular  | Lymphocyte, Minimal |
| * Salivary Glands |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Urinary Bladder |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus          | Endometrium                            | Hyperplasia            | Cystic, Moderate    |
|                   | [ Hyperplasia TGLs = 1-16 ]            |                        |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                          |                                   |                                       |                             |
|--------------------------|-----------------------------------|---------------------------------------|-----------------------------|
| * Adrenal Cortex         | Subcapsular<br>Bilateral          | Hyperplasia<br>Hyperplasia<br>Mineral | Mild<br>Focal, Mild<br>Mild |
| * Brain                  |                                   | Infiltration Cellular                 | Lymphocyte, Mild            |
| * Harderian Gland        |                                   | Infiltration Cellular                 | Lymphocyte, Minimal         |
| * Kidney                 | Interstitium                      | Hyperplasia                           | Lymphoid, Mild              |
| * Lymph Node, Mesenteric | [ Hyperplasia TGLs = 3-15, 4-15 ] |                                       |                             |
| * Salivary Glands        |                                   | Infiltration Cellular                 | Lymphocyte, Mild            |
| * Thyroid Gland          |                                   | Infiltration Cellular                 | Lymphocyte, Minimal         |
| * Urinary Bladder        |                                   | Infiltration Cellular                 | Lymphocyte, Minimal         |
| * Uterus                 |                                   | Angiectasis<br>Dilation               | Mild<br>Moderate            |
|                          | Endometrium                       | Hyperplasia                           | Cystic, Mild                |
|                          | [ Dilation TGLs = 1-16, 2-16 ]    |                                       |                             |
|                          | [ Hyperplasia TGLs = 1-20, 2-20 ] |                                       |                             |

Animal Note: TGL 5 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Stomach, Glandular
- \* Aorta
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Trachea
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nose
- \* Stomach, Forestomach

MISSING

- \* Brain Trigeminal Ganglion
- \* Thymus

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone                                      Fibro-Osseous Lesion                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Gallbladder                              Infiltration Cellular                      Lymphocyte, Mild
- \* Harderian Gland                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Heart                                      Artery                                      Inflammation                      Chronic Active, Mild
- \* Kidney                                      Interstitium                                      Infarct                                      Mild
- \* Liver                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Lymph Node, Mesenteric                      Necrosis                                      Mild
- Hemorrhage                                      Marked
- Infiltration Cellular                      Histiocyte, Mild
- [ Hemorrhage    TGLs = 9-19 ]
- \* Mammary Gland                              Hyperplasia                                      Diffuse, Mild
- Mesentery                                      Artery                                      Inflammation                      Chronic, Moderate
- Fat                                              Necrosis                                      Moderate
- [ Inflammation    TGLs = 4-14, 5-14 ]
- [ Necrosis        TGLs = 2-21, 3-22 ]
- \* Ovary                                      Follicle                                      Cyst

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-336

ORGAN AND ACCOUNTABLE SITE STATUS

\* Parathyroid Gland

Note: One parathyroid gland examined.

\* Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Moderate

[ Hyperplasia TGLs = 7-4 ]

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Minimal

\* Skeletal Muscle

Arteriole

Inflammation

Chronic, Moderate

\* Skin

Sebaceous Gland

Adenoma

[ Adenoma TGLs = 8-20 ]

\* Spinal Cord

Necrosis

Moderate

\* Spleen

Extramedullary Hematopoiesis

Marked

\* Thyroid Gland

Follicle

Cyst

Focal, Mild

Follicular Cell

Hyperplasia

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Endometrium

Dilation

Moderate

Hyperplasia

Cystic, Minimal

[ Dilation TGLs = 1-16 ]

PRIMARY CAUSE OF DEATH

- Spinal Cord Necrosis

Animal Note: TGL 6 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 337

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-337

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2-16 ]

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 340

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-340

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 4-12, 5-12 ]

Angiectasis

Dilation

Marked

Moderate

\* Uterus

[ Angiectasis TGLs = 3-16 ]

[ Dilation TGLs = 3-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                             |                             |
|--------------------------|--------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                  | * Bone                      | * Brain Trigeminal Ganglion |
| * Clitoral Gland         | * Esophagus              | * Eye                       | * Gallbladder               |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum   | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nerve Trigeminal       | * Nose                      | * Ovary                     |
| * Pancreas               | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland           |
| * Skin                   | * Stomach, Forestomach   | * Thyroid Gland             | * Trachea                   |

OBSERVATIONS

- |                            |                                        |                        |                       |
|----------------------------|----------------------------------------|------------------------|-----------------------|
| * Adrenal Cortex           | Subcapsular                            | Hyperplasia            | Mild                  |
| * Bone Marrow              |                                        | Lymphoma Malignant     |                       |
| * Brain                    |                                        | Lymphoma Malignant     |                       |
| * Harderian Gland          |                                        | Lymphoma Malignant     |                       |
| * Heart                    |                                        | Lymphoma Malignant     |                       |
| * Intestine Small, Jejunum |                                        | Lymphoma Malignant     |                       |
| * Kidney                   | Interstitium                           | Infiltration Cellular  | Lymphocyte, Minimal   |
|                            |                                        | Nephropathy            | Chronicprogr, Minimal |
| * Liver                    |                                        | Hepatocellular Adenoma |                       |
|                            |                                        | Mixed Cell Focus       |                       |
|                            | [ Hepatocellular Adenoma TGLs = 5-20 ] |                        |                       |
|                            | [ Mixed Cell Focus TGLs = 3-21 ]       |                        |                       |
| * Lung                     |                                        | Lymphoma Malignant     |                       |
| Lymph Node                 |                                        | Lymphoma Malignant     |                       |
|                            | [ Lymphoma Malignant TGLs = 6-19 ]     |                        |                       |
| Mesentery                  |                                        | Lymphoma Malignant     |                       |
| * Parathyroid GI           |                                        |                        |                       |
|                            | Note: One parathyroid gland examined.  |                        |                       |
| * Salivary Glands          |                                        | Lymphoma Malignant     |                       |
| * Skeletal Muscle          |                                        | Lymphoma Malignant     |                       |
| * Spinal Cord              |                                        | Lymphoma Malignant     |                       |
| * Spleen                   |                                        | Lymphoma Malignant     |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 341

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-341

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Lymphoma Malignant TGLs = 2-12, 4-12 ]

\* Stomach, Glandular

Lymphoma Malignant

\* Thymus

Lymphoma Malignant

\* Urinary Bladder

Lymphoma Malignant

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Lymphoma Malignant

[ Hyperplasia TGLs = 1-16 ]

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain                     | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Salivary Glands        | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Trachea                |                            |                           |

MISSING

- |                             |                  |
|-----------------------------|------------------|
| * Brain Trigeminal Ganglion | * Clitoral Gland |
|-----------------------------|------------------|

OBSERVATIONS

- |                             |               |                       |                     |
|-----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular   | Hyperplasia           | Mild                |
| * Harderian Gland           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                    |               | Infarct               | Mild                |
| * Lymph Node, Mesenteric    |               | Hyperplasia           | Lymphoid, Moderate  |
| * Peripheral Nerve, Sciatic | Axon          | Degeneration          | Mild                |
| * Pituitary Gland           | Pars Distalis | Adenoma               |                     |
| [ Adenoma TGLs = 2-4 ]      |               |                       |                     |
| * Thyroid Gland             |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder           |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                    | Endometrium   | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ] |               |                       |                     |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 344

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 447

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-344

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Pars distalis examined.

---

**PRIMARY CAUSE OF DEATH** - Kidney Glomerulopathy

---

Animal Note: TGLs 1, 4 & 5 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone Marrow             | * Brain Trigeminal Ganglion |
| * Clitoral Gland         | * Esophagus                 | * Eye                     | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland             | * Nose                    | * Ovary                     |
| * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Skeletal Muscle         | * Skin                      |
| * Spinal Cord            | * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Thyroid Gland             | * Trachea                 | * Urinary Bladder           |

MISSING

- |               |                    |                   |
|---------------|--------------------|-------------------|
| * Gallbladder | * Nerve Trigeminal | * Pituitary Gland |
|---------------|--------------------|-------------------|

OBSERVATIONS

- |                                              |              |                              |                      |
|----------------------------------------------|--------------|------------------------------|----------------------|
| * Adrenal Cortex                             | Subcapsular  | Hyperplasia                  | Mild                 |
| * Bone                                       |              | Fibro-Osseous Lesion         | Mild                 |
| * Brain                                      |              | Mineral                      | Mild                 |
| * Harderian Gland                            |              | Infiltration Cellular        | Lymphocyte, Minimal  |
| * Kidney                                     | Interstitium | Infarct                      | Mild                 |
| * Liver                                      |              | Infiltration Cellular        | Lymphocyte, Minimal  |
| [ Hepatocellular Adenoma TGLs = 2-12 ]       |              | Hepatocellular Adenoma       |                      |
| * Lung                                       |              | Alveolar/Bronchiolar Adenoma |                      |
| [ Alveolar/Bronchiolar Adenoma TGLs = 3-10 ] |              | Infiltration Cellular        | Histiocyte, Moderate |
| * Pancreas                                   |              | Infiltration Cellular        | Lymphocyte, Mild     |
| * Parathyroid GI                             |              |                              |                      |
| Note: One parathyroid examined.              |              |                              |                      |
| * Salivary Glands                            |              | Infiltration Cellular        | Lymphocyte, Mild     |
| * Uterus                                     |              | Angiectasis                  | Moderate             |
|                                              |              | Dilation                     | Moderate             |
|                                              | Endometrium  | Hyperplasia                  | Cystic, Mild         |
| [ Angiectasis TGLs = 4-16 ]                  |              |                              |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 345

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-345

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Adrenal Medulla
- \* Gallbladder

OBSERVATIONS

- \* Adrenal Cortex  
Note: One adrenal cortex examined. Subcapsular Hyperplasia Mild
- \* Brain Mineral Mild
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild  
Nephropathy Chronicprogr, Minimal  
Infiltration Cellular Lymphocyte, Minimal
- \* Liver Infiltration Cellular Lymphocyte, Minimal
- \* Ovary Cyst
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Skeletal Muscle Infiltration Cellular Lymphocyte, Minimal
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Mild
- \* Uterus Dilatation Moderate  
Hyperplasia Cystic, Moderate

[ Dilatation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 347

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-347

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1 = NST; TGLs 3 & 4 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 752

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                             |
|-----------------------------|--------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus              | * Eye                       |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Lung                      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland          | * Nose                      |
| * Ovary                     | * Pancreas               | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle        | * Skin                   | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                 | * Thyroid Gland             |
| * Trachea                   |                          |                          |                             |

MISSING

- |               |                    |
|---------------|--------------------|
| * Gallbladder | * Nerve Trigeminal |
|---------------|--------------------|

OBSERVATIONS

- |                                        |              |                        |                     |
|----------------------------------------|--------------|------------------------|---------------------|
| * Adrenal Cortex                       | Subcapsular  | Hyperplasia            | Mild                |
| * Brain                                |              | Mineral                | Mild                |
| * Harderian Gland                      |              | Adenoma                |                     |
| * Intestine Small, Jejunum             | Peyers Patch | Hyperplasia            | Lymphoid, Mild      |
| * Kidney                               | Interstitium | Infiltration Cellular  | Lymphocyte, Minimal |
| * Liver                                |              | Hepatocellular Adenoma |                     |
| [ Hepatocellular Adenoma TGLs = 2-19 ] |              |                        |                     |
| * Parathyroid Gland                    |              |                        |                     |
| Note: One parathyroid gland examined.  |              |                        |                     |
| * Salivary Glands                      |              | Infiltration Cellular  | Lymphocyte, Mild    |
| * Spleen                               |              | Hyperplasia            | Lymphoid, Mild      |
| * Urinary Bladder                      |              | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus                               | Endometrium  | Hyperplasia            | Cystic, Moderate    |
|                                        |              | Polyp Stromal          |                     |
| [ Hyperplasia TGLs = 1-16 ]            |              |                        |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone Marrow
- \* Brain Trigeminal Ganglion
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Gallbladder
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Pituitary Gland
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Nerve Trigeminal
- \* Thymus

OBSERVATIONS

- \* Brain
- \* Harderian Gland
- \* Kidney
- \* Salivary Glands
- \* Urinary Bladder
- \* Uterus
- Interstitial
- Endometrium
- Mineral
- Infiltration Cellular
- Infiltration Cellular
- Nephropathy
- Infiltration Cellular
- Infiltration Cellular
- Hyperplasia
- Mild
- Lymphocyte, Minimal
- Lymphocyte, Minimal
- Chronicprogr, Minimal
- Lymphocyte, Minimal
- Lymphocyte, Minimal
- Cystic, Mild

[ Hyperplasia TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 352

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland             | * Nerve Trigeminal       | * Nose                      |
| * Ovary                     | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland             |
| * Trachea                   |                             |                          |                             |

OBSERVATIONS

- |                               |               |                       |                     |
|-------------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex              | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                       |               | Mineral               | Mild                |
| * Harderian Gland             |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                      | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Pituitary Gland             | Pars Distalis | Adenoma               |                     |
| Note: Pars distalis examined. |               |                       |                     |
| [ Adenoma TGLs = 2-4 ]        |               |                       |                     |
| * Salivary Glands             |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder             |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                      | Endometrium   | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]   |               |                       |                     |



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 353

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-353

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 2-16 ]

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Animal Note: TGLs 1 & 3 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thymus                    | * Trachea                   |                          |                             |

MISSING

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- |                               |              |                        |                     |
|-------------------------------|--------------|------------------------|---------------------|
| * Adrenal Cortex              | Subcapsular  | Hyperplasia            | Mild                |
| * Brain                       |              | Mineral                | Mild                |
| * Harderian Gland             |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Kidney                      | Interstitium | Infiltration Cellular  | Lymphocyte, Minimal |
| * Liver                       |              | Hepatocellular Adenoma |                     |
| * Ovary                       |              | Cystadenoma            |                     |
| * Pituitary Gl                |              |                        |                     |
| Note: Pars distalis examined. |              |                        |                     |
| * Thyroid Gland               |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Urinary Bladder             |              | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus                      | Endometrium  | Hyperplasia            | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Islets, Pancreatic     | * Lung                      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal          |
| * Nose                      | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                              |              |                              |                     |
|----------------------------------------------|--------------|------------------------------|---------------------|
| * Adrenal Cortex                             | Subcapsular  | Hyperplasia                  | Mild                |
| * Bone Marrow                                |              | Hypercellularity             | Moderate            |
| * Brain                                      |              | Mineral                      | Mild                |
| * Harderian Gland                            |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Intestine Small, Jejunum                   |              | Adenoma                      |                     |
| [ Adenoma TGLs = 4-19 ]                      |              |                              |                     |
| * Kidney                                     | Interstitial | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver                                      |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Ovary                                      | Follicle     | Cyst                         |                     |
| [ Cyst TGLs = 2-16 ]                         |              |                              |                     |
| * Pancreas                                   |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Salivary Glands                            |              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Spleen                                     |              | Extramedullary Hematopoiesis | Moderate            |
| [ Extramedullary Hematopoiesis TGLs = 3-12 ] |              |                              |                     |
| * Urinary Bladder                            |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Uterus                                     | Endometrium  | Hyperplasia                  | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]                  |              |                              |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pancreas
- \* Skin
- \* Thymus
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex      Subcapsular      Hyperplasia      Mild
- \* Bone           Fibro-Osseous Lesion      Mild
- \* Brain           Mineral      Minimal
- \* Kidney      Interstitium      Infiltration Cellular      Lymphocyte, Minimal
- \* Liver           Infiltration Cellular      Lymphocyte, Mild
- \* Lung           Infiltration Cellular      Mononuclear Cl, Minimal
- \* Salivary Glands           Infiltration Cellular      Lymphocyte, Mild
- \* Spleen           Hyperplasia      Lymphoid, Mild
- \* Urinary Bladder           Infiltration Cellular      Lymphocyte, Mild
- \* Uterus      Endometrium      Hyperplasia      Cystic, Moderate

[ Hyperplasia TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 357

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Trachea                |                            |                           |

MISSING

- \* Brain Trigeminal Ganglion

INSUFFICIENT TISSUE

- \* Ovary
- \* Peripheral Nerve, Sciatic

OBSERVATIONS

- |                                       |                |                       |                     |
|---------------------------------------|----------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular    | Hyperplasia           | Mild                |
| * Brain                               |                | Mineral               | Mild                |
| * Harderian Gland                     |                | Infiltration Cellular | Lymphocyte, Mild    |
| * Kidney                              | Interstitial   | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric              |                | Hyperplasia           | Lymphoid, Mild      |
| * Parathyroid Gland                   |                |                       |                     |
| Note: One parathyroid gland examined. |                |                       |                     |
| * Pituitary Gland                     |                |                       |                     |
| Note: .                               |                |                       |                     |
| * Thyroid Gland                       | Follicular Cel | Hyperplasia           | Focal, Minimal      |
| Note: One thyroid gland examined.     |                |                       |                     |
| * Urinary Bladder                     |                | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium    | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 2-16 ]           |                |                       |                     |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Small, Jejunum
- \* Stomach, Forestomach
- \* Aorta
- \* Esophagus
- \* Nose
- \* Bone
- \* Eye
- \* Parathyroid Gland
- \* Brain Trigeminal Ganglion
- \* Intestine Small, Duodenum
- \* Peripheral Nerve, Sciatic

MISSING

- \* Gallbladder
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Brain
  - \* Clitoral GI
    - Note: One clitoral gland examined.
  - \* Harderian Gland
  - \* Heart
  - \* Intestine Large, Cecum
  - \* Intestine Large, Colon
  - \* Intestine Large, Rectum
  - \* Intestine Small, Ileum
  - \* Islets, Pancreatic
  - \* Kidney
    - [ Lymphoma Malignant TGLs = 7-13 ]
  - \* Liver
    - [ Lymphoma Malignant TGLs = 9-12, 10-12 ]
  - \* Lung
    - Lymph Node
    - [ Lymphoma Malignant TGLs = 11-22, 12-21, 13-19, 14-20 ]
  - \* Lymph Node, Mandibular
    - [ Lymphoma Malignant TGLs = 2-9 ]
  - \* Lymph Node, Mesenteric
    - [ Lymphoma Malignant TGLs = 8-15 ]
- Lymphoma Malignant
- Lymphoma Malignant
- Mineral
- Mild
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-358

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Lymphoma Malignant	
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	[ Angiectasis TGLs = 15-4 ]		
* Salivary Glands		Lymphoma Malignant	
* Skeletal Muscle		Lymphoma Malignant	
* Skin		Lymphoma Malignant	
* Spinal Cord		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 5-12, 6-12 ]		
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLs = 4-16 ]	Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 4-16 ]		

Animal Note: TGLs 1 & 3 = NCL

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Heart
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Skeletal Muscle
* Skin	* Spinal Cord	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

MISSING

* Lymph Node, Mesenteric	* Nerve Trigeminal
--------------------------	--------------------

AUTO PRECLUDES DIAG.

* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Pituitary Gland	* Spleen
* Stomach, Glandular	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 2-12 ]		
* Ovary			
	Note: One ovary examined.		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: TGLs 1, 3, & 4 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 360

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skin
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Spinal Cord
- \* Thymus

MISSING

- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Peripheral Nerve, Sciatic

OBSERVATIONS

- |                        |                |                        |                     |
|------------------------|----------------|------------------------|---------------------|
| * Adrenal Cortex       | Subcapsular    | Hyperplasia            | Mild                |
| * Bone Marrow          |                | Hypercellularity       | Mild                |
| * Brain                |                | Mineral                | Minimal             |
| * Harderian Gland      |                | Adenoma                |                     |
| * Kidney               | Interstitial   | Infiltration Cellular  | Lymphocyte, Mild    |
| * Liver                |                | Hepatocellular Adenoma |                     |
|                        |                | Infiltration Cellular  | Lymphocyte, Mild    |
| Mesentery              | Fat            | Inflammation           | Granulomatous, Mild |
|                        | Fat            | Lipoma                 |                     |
|                        | Fat            | Mineral                | Mild                |
| [ Lipoma TGLs = 2-19 ] |                |                        |                     |
| * Salivary Glands      |                | Infiltration Cellular  | Lymphocyte, Minimal |
| * Thyroid Gland        | Follicular Cel | Hyperplasia            | Focal, Mild         |
| * Urinary Bladder      |                | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus               |                | Dilation               | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 360

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-360

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]  
Endometrium

Hyperplasia

Cystic, Mild

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 361

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 537

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-361

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Ulcer

Mild

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

---

PRIMARY CAUSE OF DEATH

- Brain Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Brain Artery Meninges Inflammation

---

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 362

TRT#: 4

SEX: Female

DAY ON TEST: 617

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nerve Trigeminal	* Nose
* Pancreas	* Pituitary Gland	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Ileum
---------------	--------------------------	--------------------------

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adren Medulla			
Note: One adrenal medulla examined.			
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Islets, Pancreatic		Carcinoma	
[ Carcinoma TGLs = 2-19 ]			
* Kidney	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 1-20, 4-20 ]			
* Peripheral Nerve, Sciatic	Axon	Degeneration	Mild
* Pituitary GI			
Note: Pars distalis examined.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 362

TRT#: 4

SEX: Female

DAY ON TEST: 617

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-362

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLs = 3-21 ]

---

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Carcinoma

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 363

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Pancreas               | * Pituitary Gland          |
| * Salivary Glands           | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland             | * Trachea                   |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                             |                  |                       |                      |
|-----------------------------|------------------|-----------------------|----------------------|
| * Adrenal Cortex            | Subcapsular      | Hyperplasia           | Mild                 |
| * Brain                     | Artery, Meninges | Inflammation          | Chronic Active, Mild |
|                             |                  | Mineral               | Minimal              |
| * Harderian Gland           |                  | Infiltration Cellular | Lymphocyte, Minimal  |
| * Peripheral Nerve, Sciatic | Axon             | Degeneration          | Minimal              |
| * Urinary Bladder           |                  | Infiltration Cellular | Lymphocyte, Mild     |
| * Uterus                    | Endometrium      | Hyperplasia           | Cystic, Moderate     |

[ Hyperplasia TGLs = 2-16 ]

Animal Note: TGL 1 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 364

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Skin
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Spinal Cord
- \* Thymus

MISSING

- \* Clitoral Gland
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex      Subcapsular      Hyperplasia      Mild
- \* Bone      Fibro-Osseous Lesion      Mild
- \* Brain      Mineral      Minimal
- \* Harderian Gland      Infiltration Cellular      Lymphocyte, Minimal
- \* Kidney      Infarct      Moderate
- Papilla      Mineral      Minimal
- [ Infarct    TGLs = 4-13 ]
- \* Liver      Bile Duct      Cyst
- [ Cyst    TGLs = 5-12 ]
- Lymph Node      Renal      Hyperplasia      Lymphoid, Marked
- [ Hyperplasia    TGLs = 3-20 ]
- \* Mammary Gland      Duct      Dilation      Mild
- \* Ovary      Cyst
- Granulosa Cell      Hyperplasia      Moderate
- \* Pancreas      Infiltration Cellular      Lymphocyte, Minimal
- \* Peripheral Nerve, Sciatic      Axon      Degeneration      Minimal
- \* Salivary Glands      Infiltration Cellular      Lymphocyte, Minimal
- \* Urinary Bladder      Infiltration Cellular      Lymphocyte, Mild
- \* Uterus      Dilation      Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 364

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-364

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 1-16 ]

---

Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 365

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain                    | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nose                      | * Ovary                  |
| * Pancreas                 | * Peripheral Nerve, Sciatic | * Skin                      | * Spinal Cord            |
| * Spleen                   | * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                 |
| * Trachea                  |                             |                             |                          |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

INSUFFICIENT TISSUE

- \* Thyroid Gland

OBSERVATIONS

- |                          |               |                       |                       |
|--------------------------|---------------|-----------------------|-----------------------|
| * Adrenal Cortex         | Subcapsular   | Hyperplasia           | Mild                  |
| * Harderian Gland        |               | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                 |               | Infarct               | Mild                  |
|                          |               | Nephropathy           | Chronicprogr, Minimal |
| * Liver                  |               | Inflammation          | Focal, Mild           |
| Mesentery                | Fat           | Necrosis              | Moderate              |
| [ Necrosis TGLs = 1-19 ] |               |                       |                       |
| * Pituitary Gland        | Pars Distalis | Adenoma               |                       |
| * Salivary Glands        |               | Infiltration Cellular | Lymphocyte, Minimal   |
| * Skeletal Muscle        |               | Infiltration Cellular | Lymphocyte, Minimal   |
| * Urinary Bladder        |               | Infiltration Cellular | Lymphocyte, Mild      |
| * Uterus                 | Endometrium   | Hyperplasia           | Cystic, Mild          |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 367

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Lung
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Forestomach

MISSING

- \* Nerve Trigeminal

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Intestine Large, Rectum
- \* Kidney

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild  
     Note: One adrenal gland on slide 6.
- \* Brain                                              Mineral                                              Minimal
- \* Harderian Gland                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Liver                                              Hepatocellular Adenoma                                      Infiltration Cellular                                      Mononuclear CI, Mild  
     [ Hepatocellular Adenoma    TGLs = 1-12 ]
- \* Pituitary Gland                                      Pars Distalis                                      Adenoma
- Note: Pars distalis examined.
- \* Skeletal Muscle                                      Infiltration Cellular                                      Lymphocyte, Minimal
- \* Thymus                                              Cyst
- Note: Thymus on slide 7.
- \* Urinary Bladder                                      Infiltration Cellular                                      Lymphocyte, Mild
- \* Uterus                                              Endometrium                                      Hyperplasia                                      Cystic, Mild  
     [ Hyperplasia    TGLs = 2-16 ]

PRIMARY CAUSE OF DEATH                      - Liver    Hepatocellular Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 368

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                           |                             |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                    | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular    | * Mammary Gland            | * Nose                    | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Skeletal Muscle         | * Skin                      |
| * Spleen                    | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland             | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- |               |                    |
|---------------|--------------------|
| * Gallbladder | * Nerve Trigeminal |
|---------------|--------------------|

OBSERVATIONS

- |                                     |                              |                       |                      |
|-------------------------------------|------------------------------|-----------------------|----------------------|
| * Adrenal Cortex                    | Subcapsular                  | Hyperplasia           | Mild                 |
| * Adren Medulla                     |                              |                       |                      |
| Note: One adrenal medulla examined. |                              |                       |                      |
| * Bone Marrow                       |                              | Hypercellularity      | Mild                 |
| * Brain                             | Artery, Meninges             | Inflammation          | Chronic Active, Mild |
|                                     |                              | Mineral               | Minimal              |
| * Harderian Gland                   |                              | Infiltration Cellular | Lymphocyte, Minimal  |
| * Kidney                            | Interstitium                 | Infiltration Cellular | Lymphocyte, Mild     |
| * Lung                              | Serosa                       | Hemorrhage            | Moderate             |
|                                     |                              | Inflammation          | Chronic, Minimal     |
|                                     | [ Hemorrhage TGLs = 4-10 ]   |                       |                      |
|                                     | [ Inflammation TGLs = 3-10 ] |                       |                      |
| * Lymph Node, Mesenteric            |                              | Hemorrhage            | Minimal              |
| * Ovary                             |                              | Cyst                  |                      |
| * Pancreas                          |                              | Infiltration Cellular | Lymphocyte, Minimal  |
| * Salivary Glands                   |                              | Infiltration Cellular | Lymphocyte, Mild     |
| * Spinal Cord                       | Artery, Meninges             | Inflammation          | Chronic Active, Mild |
| * Uterus                            |                              | Dilation              | Mild                 |
|                                     | [ Dilation TGLs = 1-16 ]     |                       |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 368

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-368

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 369

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Brain Trigeminal Ganglion | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder               | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                   | * Ovary                     | * Pancreas                |
| * Peripheral Nerve, Sciatic | * Skin                   | * Spinal Cord               | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland             | * Trachea                 |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                             |                      |                              |                       |
|-----------------------------|----------------------|------------------------------|-----------------------|
| * Adrenal Cortex            | Subcapsular          | Hyperplasia                  | Mild                  |
| * Bone                      | Periosteum, Vertebra | Inflammation                 | Granulomatous, Mild   |
| * Bone Marrow               |                      | Hypercellularity             | Moderate              |
| * Brain                     | Artery, Meninges     | Inflammation                 | Chronic Active, Mild  |
|                             |                      | Mineral                      | Minimal               |
| * Kidney                    |                      | Infarct                      | Minimal               |
|                             | Interstitium         | Infiltration Cellular        | Lymphocyte, Minimal   |
|                             |                      | Nephropathy                  | Chronicprogr, Minimal |
| * Liver                     |                      | Infiltration Cellular        | Lymphocyte, Minimal   |
| Mesentery                   | Fat                  | Necrosis                     | Moderate              |
|                             |                      |                              |                       |
| [ Necrosis TGLs = 2-19 ]    |                      |                              |                       |
| * Pituitary Gland           | Pars Distalis        | Angiectasis                  | Minimal               |
|                             |                      |                              |                       |
| [ Angiectasis TGLs = 3-4 ]  |                      |                              |                       |
| * Salivary Glands           | Arteriole            | Inflammation                 | Chronic, Mild         |
| * Skeletal Muscle           | Arteriole            | Inflammation                 | Chronic, Mild         |
| * Spleen                    |                      | Extramedullary Hematopoiesis | Mild                  |
| * Urinary Bladder           | Arteriole            | Inflammation                 | Chronic, Mild         |
| * Uterus                    | Endometrium          | Hyperplasia                  | Cystic, Mild          |
|                             |                      |                              |                       |
| [ Hyperplasia TGLs = 1-16 ] |                      |                              |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 370

TRT#: 4

SEX: Female

DAY ON TEST: 751

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Salivary Glands
- \* Spleen
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow                                           Hypercellularity                      Mild
- \* Brain                                           Mineral                      Minimal
- \* Clitoral Gland
- Note: One clitoral gland examined.
- \* Harderian Gland                                           Infiltration Cellular                      Lymphocyte, Minimal
- \* Islets, Pancreatic                                           Hyperplasia                      Mild
- \* Kidney                      Interstitium                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                      Chronicprogr, Minimal
- \* Liver                                           Hepatocellular Adenoma                                           Infiltration Cellular                      Lymphocyte, Minimal
- [ Hepatocellular Adenoma    TGLs = 3-12 ]
- \* Lung                      Alveolar Epith                      Hyperplasia                      Focal, Mild
- Mesentery                      Fat                      Necrosis                      Mild
- [ Necrosis    TGLs = 4-19 ]
- \* Ovary                                           Cystadenoma
- [ Cystadenoma    TGLs = 2-16 ]
- \* Pancreas                                           Infiltration Cellular                      Lymphocyte, Minimal
- \* Stomach, Glandular                                           Cyst

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 370

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-370

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

\* Uterus

Endometrium

Infiltration Cellular

Hyperplasia

Inflammation

Lymphocyte, Mild

Cystic, Mild

Acute, Moderate

[ Hyperplasia TGLs = 1-16 ]

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 372

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus

MISSING

- \* Adrenal Medulla

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Minimal             |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                               | Follicle     | Cyst                  |                     |
| * Pancreas                            |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Peripheral Nerve, Sciatic           | Axon         | Degeneration          | Minimal             |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Thyroid Gland                       |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |
|                                       |              | Polyp Stromal         |                     |

[ Hyperplasia TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 373

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-373

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 2-16 ]  
Endometrium

Hyperplasia

Cystic, Mild

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 374

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                             |
|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                 | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lung                      | * Lymph Node, Mandibular   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                      | * Ovary                    | * Pancreas                  |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Salivary Glands          | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                   | * Stomach, Forestomach      |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            | * Trachea                   |

INSUFFICIENT TISSUE

- \* Bone Marrow

OBSERVATIONS

- |                             |               |                       |                     |
|-----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                     |               | Mineral               | Minimal             |
| * Harderian Gland           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                    |               | Infarct               | Minimal             |
|                             | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric    |               | Hemorrhage            | Minimal             |
|                             |               | Infiltration Cellular | Histiocyte, Mild    |
| * Pituitary Gland           | Pars Distalis | Angiectasis           | Mild                |
| [ Angiectasis TGLs = 2-4 ]  |               |                       |                     |
| * Urinary Bladder           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                    | Endometrium   | Hyperplasia           | Cystic, Mild        |
| [ Hyperplasia TGLs = 1-16 ] |               |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 375

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                     |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Salivary Glands        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                                     |             |                       |                     |
|-------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                    | Subcapsular | Hyperplasia           | Mild                |
| * Adren Medulla                     |             |                       |                     |
| Note: One adrenal medulla examined. |             |                       |                     |
| * Brain                             |             | Mineral               | Minimal             |
| * Harderian Gland                   |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric            |             | Hyperplasia           | Lymphoid, Mild      |
| * Ovary                             | Follicle    | Cyst                  |                     |
| * Urinary Bladder                   |             | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                            | Endometrium | Hyperplasia           | Cystic, Moderate    |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 377

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Mild
- \* Clitoral Gland  
    Note: One clitoral gland examined.
- \* Harderian Gland                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                              Inflammation                                              Focal, Minimal
- \* Lymph Node, Mesenteric                                              Hyperplasia                                              Lymphoid, Minimal
- Mesentery                      Fat                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 2-19 ]
- \* Ovary  
    Note: One ovary examined.
- \* Pancreas                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Dilatation                                              Mild
- Endometrium                                              Hyperplasia                                              Cystic, Mild
- [ Dilatation    TGLs = 3-16 ]
- [ Hyperplasia    TGLs = 3-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 377

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-377

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGL 1 = NCL

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 378

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-378

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Angiectasis TGLs = 7-20 ]

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 7-20 ]

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

- Spleen Hemangiosarcoma

---

Animal Note: TGL 6 = NST

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 382

TRT#: 4

SEX: Female

DAY ON TEST: 752

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                             |
|-----------------------------|--------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                   | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                    | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Mammary Gland             |
| * Nose                      | * Ovary                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle        | * Skin                   | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland          | * Trachea                   |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                            |                                          |                          |                     |
|----------------------------|------------------------------------------|--------------------------|---------------------|
| * Adrenal Cortex           | Subcapsular                              | Hyperplasia              | Mild                |
| * Bone Marrow              |                                          | Lymphoma Malignant       |                     |
| * Brain                    |                                          | Mineral                  | Minimal             |
| * Harderian Gland          |                                          | Infiltration Cellular    | Lymphocyte, Minimal |
| * Intestine Small, Jejunum |                                          | Lymphoma Malignant       |                     |
| * Kidney                   |                                          | Lymphoma Malignant       |                     |
| * Liver                    |                                          | Hepatocellular Carcinoma |                     |
|                            |                                          | Lymphoma Malignant       |                     |
|                            | [ Hepatocellular Carcinoma TGLs = 5-20 ] |                          |                     |
| * Lung                     |                                          | Lymphoma Malignant       |                     |
| Lymph Node                 |                                          | Lymphoma Malignant       |                     |
|                            | [ Lymphoma Malignant TGLs = 6-19, 7-21 ] |                          |                     |
| * Lymph Node, Mandibular   |                                          | Lymphoma Malignant       |                     |
| * Lymph Node, Mesenteric   |                                          | Lymphoma Malignant       |                     |
|                            | [ Lymphoma Malignant TGLs = 4-15 ]       |                          |                     |
| * Pancreas                 |                                          | Infiltration Cellular    | Lymphocyte, Mild    |
| * Salivary Glands          |                                          | Infiltration Cellular    | Lymphocyte, Mild    |
| * Spleen                   |                                          | Lymphoma Malignant       |                     |
| * Thymus                   |                                          | Lymphoma Malignant       |                     |
| * Urinary Bladder          |                                          | Lymphoma Malignant       |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 382

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 752

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-382

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLs = 2-16 ]

---

Animal Note: TGLs 1 & 3 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 385

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-385

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Lymphoma Malignant TGLs = 2-12, 3-12 ]

\* Stomach, Glandular

\* Thymus

\* Urinary Bladder

\* Uterus

[ Dilation TGLs = 1-16 ]

Cyst

Lymphoma Malignant

Infiltration Cellular

Dilation

Lymphocyte, Minimal

Marked

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 387

TRT#: 4

SEX: Female

DAY ON TEST: 640

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Kidney                    | * Liver                  | * Lung                      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nerve Trigeminal          |
| * Nose                      | * Ovary                     | * Pancreas               | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle           | * Spinal Cord            | * Spleen                    |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland             |
| * Trachea                   |                             |                          |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                              |             |                       |                     |
|------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex             | Subcapsular | Hyperplasia           | Mild                |
| * Brain                      |             | Mineral               | Minimal             |
| * Harderian Gland            |             | Adenoma               |                     |
|                              |             | Infiltration Cellular | Lymphocyte, Mild    |
| [ Adenoma TGLs = 1-5 ]       |             |                       |                     |
| * Ovary                      |             |                       |                     |
| Note: One ovary examined.    |             |                       |                     |
| * Salivary Glands            |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Skin                       |             | Inflammation          | Chronic, Marked     |
| [ Inflammation TGLs = 2-19 ] |             |                       |                     |
| * Urinary Bladder            |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                     | Endometrium | Dilation              | Moderate            |
|                              |             | Hyperplasia           | Cystic, Mild        |
| [ Dilation TGLs = 3-16 ]     |             |                       |                     |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 388

TRT#: 4

SEX: Female

DAY ON TEST: 751

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Thymus

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |               |                       |                       |
|---------------------------------------|---------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia           | Mild                  |
| * Brain                               |               | Mineral               | Minimal               |
| * Clitoral GI                         |               |                       |                       |
| Note: One clitoral gland examined.    |               |                       |                       |
| * Harderian Gland                     |               | Infiltration Cellular | Lymphocyte, Minimal   |
| * Liver                               |               | Infiltration Cellular | Lymphocyte, Mild      |
| * Lymph Node, Mesenteric              |               | Infiltration Cellular | Plasma Cell, Moderate |
| * Parathyroid GI                      |               |                       |                       |
| Note: One parathyroid gland examined. |               |                       |                       |
| * Pituitary Gland                     | Pars Distalis | Cyst                  |                       |
| * Salivary Glands                     |               | Infiltration Cellular | Lymphocyte, Mild      |
| * Spinal Cord                         |               | Cyst                  | Squamous              |
| * Thyroid Gland                       |               | Infiltration Cellular | Lymphocyte, Minimal   |
| * Urinary Bladder                     |               | Infiltration Cellular | Lymphocyte, Mild      |
| * Uterus                              | Endometrium   | Hyperplasia           | Cystic, Mild          |
- [ Hyperplasia TGLs = 1-16 ]

Animal Note: TGL 2 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 389

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-389

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Infiltration Cellular	Lymphocyte, Mild
* Spleen	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 5-12 ]		
* Thymus	Atrophy	Mild
* Urinary Bladder	Lymphoma Malignant	
* Uterus	Dilation	Mild
	Endometrium	Cystic, Moderate
[ Dilation TGLs = 3-16 ]		
[ Hyperplasia TGLs = 3-16 ]		

Animal Note: TGL 1 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 390

TRT#: 4

SEX: Female

DAY ON TEST: 687

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain                   | * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Gallbladder               | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Mammary Gland          | * Nerve Trigeminal         |
| * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skin                     |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Thymus

OBSERVATIONS

- |                                       |              |                       |                              |
|---------------------------------------|--------------|-----------------------|------------------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                         |
| * Eye                                 |              |                       |                              |
| Note: One eye examined.               |              |                       |                              |
| * Harderian Gland                     |              | Adenocarcinoma        |                              |
| [ Adenocarcinoma TGLs = 8-5 ]         |              |                       |                              |
| * Heart                               |              | Adenocarcinoma        | Metastatic (Harderian Gland) |
| * Kidney                              |              | Infarct               | Mild                         |
|                                       | Interstitium | Infiltration Cellular | Lymphocyte, Mild             |
| * Liver                               |              | Basophilic Focus      |                              |
| [ Basophilic Focus TGLs = 6-12 ]      |              |                       |                              |
| * Lung                                |              | Adenocarcinoma        | Metastatic (Harderian Gland) |
| [ Adenocarcinoma TGLs = 3-10 ]        |              |                       |                              |
| * Lymph Node, Mesenteric              |              | Infiltration Cellular | Histiocyte, Mild             |
| * Nose                                |              | Adenocarcinoma        | Metastatic (Harderian Gland) |
| * Ovary                               |              | Cyst                  |                              |
| [ Cyst TGLs = 7-16 ]                  |              |                       |                              |
| * Pancreas                            |              | Infiltration Cellular | Lymphocyte, Mild             |
| * Parathyroid GI                      |              |                       |                              |
| Note: One parathyroid gland examined. |              |                       |                              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 390

TRT#: 4

SEX: Female

DAY ON TEST: 687

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-390

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Adenocarcinoma	Metastatic (Harderian Gland)
		Infiltration Cellular	Lymphocyte, Minimal
	[ Adenocarcinoma TGLs = 2-9 ]		
* Skeletal Muscle		Adenocarcinoma	Metastatic (Harderian Gland)
	[ Adenocarcinoma TGLs = 4-19, 5-20 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Harderian Gland Adenocarcinoma

Animal Note: TGL 1 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 391

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Kidney                                      Interstitium                              Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                      Infiltration Cellular                      Lymphocyte, Mild
- Lymph Node                              Mediastinal                              Hyperplasia                      Lymphoid, Minimal
- [ Hyperplasia    TGLs = 4-19 ]
- Mesentery                              Fat                                      Necrosis                                      Moderate
- [ Necrosis      TGLs = 2-20 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                      Dilatation                                      Moderate
- Endometrium                              Hyperplasia                                      Cystic, Moderate
- [ Dilatation    TGLs = 1-16 ]
- [ Hyperplasia    TGLs = 1-16 ]

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 393

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular    | * Mammary Gland            |
| * Nose                      | * Ovary                     | * Peripheral Nerve, Sciatic | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland             | * Trachea                  |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

OBSERVATIONS

- |                          |                          |                                                     |                          |
|--------------------------|--------------------------|-----------------------------------------------------|--------------------------|
| * Adrenal Cortex         | Subcapsular<br>Bilateral | Hyperplasia<br>Vacuolization Cytoplasmic<br>Mineral | Mild<br>Moderate<br>Mild |
| * Brain                  |                          | Infiltration Cellular                               | Lymphocyte, Minimal      |
| * Harderian Gland        |                          | Infiltration Cellular                               | Lymphocyte, Minimal      |
| * Kidney                 | Interstitium             | Nephropathy                                         | Chronicprogr, Minimal    |
| * Liver                  |                          | Infiltration Cellular                               | Lymphocyte, Mild         |
| * Lymph Node, Mesenteric |                          | Hyperplasia                                         | Lymphoid, Mild           |
| * Pancreas               |                          | Infiltration Cellular                               | Lymphocyte, Minimal      |
| * Pituitary Gland        | Pars Distalis            | Hyperplasia                                         | Focal, Mild              |
| * Salivary Glands        |                          | Infiltration Cellular                               | Lymphocyte, Mild         |
| * Urinary Bladder        |                          | Infiltration Cellular                               | Lymphocyte, Mild         |
| * Uterus                 | Endometrium              | Hyperplasia                                         | Cystic, Moderate         |

[ Hyperplasia TGLs = 1-16 ]



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 394

TRT#: 4

SEX: Female

DAY ON TEST: 743

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland

OBSERVATIONS

- |                             |              |                       |                     |
|-----------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                     |              | Mineral               | Mild                |
| * Harderian Gland           |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                    | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                     |              | Hemangioma            |                     |
| [ Hemangioma TGLs = 3-16 ]  |              |                       |                     |
| * Pancreas                  |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Salivary Glands           |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder           |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                    | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 2-16 ] |              |                       |                     |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 395

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Skin
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow                                           Leukemia Erythrocytic
- \* Brain                                           Mineral                      Mild
- \* Clitoral Gland
- Note: One clitoral gland missing.
- \* Harderian Gland                                           Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                      Interstitium                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                           Infiltration Cellular                      Polymorphnuclr, Mild
- Lymph Node
- [ Histiocytic Sarcoma    TGLs = 5-20, 6-21 ]
- Lymph Node, Mesenteric
- [ Histiocytic Sarcoma    TGLs = 3-19, 4-19 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Salivary Glands                                           Infiltration Cellular                      Lymphocyte, Minimal
- \* Spleen                                           Extramedullary Hematopoiesis                      Marked
- Leukemia Erythrocytic
- [ Extramedullary Hematopoiesis    TGLs = 1-12 ]
- \* Thymus                                           Histiocytic Sarcoma
- \* Urinary Bladder                                           Infiltration Cellular                      Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 395

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-395

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Dilation

Hyperplasia

Moderate

Cystic, Mild

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 396

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-396

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant	TGLs = 4-12 ]		
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 1-6 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilation	Minimal

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

Animal Note: TGL 2 = NST; TGL 5 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 397

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-397

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- UNCERTAIN

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 398

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 667

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-398

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

\* Uterus

[ Hyperplasia TGLs = 1-16 ]

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Minimal

Cystic, Moderate

---

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 399

TRT#: 4

SEX: Female

DAY ON TEST: 744

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Peripheral Nerve, Sciatic

OBSERVATIONS

- |                                                                                                                                                                                                   |                                                                                        |                                                                                                                                                                                              |                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Bone Marrow</li> <li>* Brain</li> <li>* Kidney</li> <li>* Liver</li> </ul>                                                     | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>Interstitialium</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Hypocellularity</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Hemorrhage</li> <li>Infiltration Cellular</li> </ul>    | <ul style="list-style-type: none"> <li>Mild</li> <li>Mild</li> <li>Minimal</li> <li>Lymphocyte, Minimal</li> <li>Mild</li> <li>Lymphocyte, Minimal</li> </ul>        |
| [ Hemorrhage TGLs = 2-19 ]                                                                                                                                                                        |                                                                                        |                                                                                                                                                                                              |                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>* Lymph Node, Mandibular</li> <li>* Pancreas</li> <li>* Pituitary Gland</li> <li>* Salivary Glands</li> <li>* Urinary Bladder</li> <li>* Uterus</li> </ul> | <ul style="list-style-type: none"> <li>Pars Distalis</li> <li>Endometrium</li> </ul>   | <ul style="list-style-type: none"> <li>Hemorrhage</li> <li>Infiltration Cellular</li> <li>Cyst</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Mild</li> <li>Cystic, Moderate</li> </ul> |
| [ Hyperplasia TGLs = 1-16 ]                                                                                                                                                                       |                                                                                        |                                                                                                                                                                                              |                                                                                                                                                                      |

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 401

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-401

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Dilation

Hyperplasia

Moderate

Cystic, Mild

[ Dilation TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 403

TRT#: 4

SEX: Female

DAY ON TEST: 458

DOSE: 2.5 W/kg

DISP: Natural Death

HISTO: 12-5117-403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Uterus
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Nose
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Urinary Bladder

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland
- \* Thymus

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Accessory Adrenal Cortical Nodule
    - Hyperplasia
- \* Heart
  - Histiocytic Sarcoma
- \* Kidney
  - Renal Tubule
    - Hyaline Droplet
  - Renal Tubule
    - Vacuolization Cytoplasmic
- \* Liver
  - [ Vacuolization Cytoplasmic TGLs = 3-13 ]
  - Histiocytic Sarcoma
  - Necrosis
- \* Lung
  - [ Histiocytic Sarcoma TGLs = 4-12 ]
  - [ Necrosis TGLs = 4-12 ]
  - Histiocytic Sarcoma
  - Infiltration Cellular
- Mesentery
  - Fat
    - Necrosis
- \* Ovary
  - [ Necrosis TGLs = 6-16, 6-19 ]
  - Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 403

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 2.5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-403

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One ovary examined

\* Spleen

Histiocytic Sarcoma

---

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Necrosis

- Lung Histiocytic Sarcoma

- Spleen Histiocytic Sarcoma

---

Animal Note: TGLs 1 & 2 = NST; TGLs 5 & 7 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 404

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-404

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Pars distalis examined.

* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Spinal Cord	Artery, Meninges	Inflammation	Chronic Active, Minimal
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 3-12, 4-12 ]		
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLs = 2-16 ]		

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 405

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                      | * Ovary                  | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle           | * Skin                   | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                 | * Trachea                   |

MISSING

- |                     |                   |
|---------------------|-------------------|
| * Parathyroid Gland | * Urinary Bladder |
|---------------------|-------------------|

OBSERVATIONS

- |                                                                |             |                              |                       |
|----------------------------------------------------------------|-------------|------------------------------|-----------------------|
| * Adrenal Cortex                                               | Subcapsular | Hyperplasia                  | Mild                  |
| * Brain                                                        |             | Mineral                      | Minimal               |
| * Harderian Gland                                              |             | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Kidney                                                       |             | Nephropathy                  | Chronicprogr, Minimal |
| * Liver                                                        |             | Hepatocellular Adenoma       |                       |
| [ Hepatocellular Adenoma TGLs = 3-12 ]                         |             |                              |                       |
| * Lymph Node, Mesenteric                                       |             | Infiltration Cellular        | Plasma Cell, Moderate |
| * Ovary                                                        |             |                              |                       |
| Note: The black focus noted grossly is a corpus hemorrhagicum. |             |                              |                       |
| * Pancreas                                                     |             | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Salivary Glands                                              |             | Infiltration Cellular        | Lymphocyte, Mild      |
| * Spleen                                                       |             | Extramedullary Hematopoiesis | Mild                  |
| * Thyroid Gland                                                |             | Infiltration Cellular        | Lymphocyte, Minimal   |
| * Uterus                                                       |             | Dilation                     | Moderate              |
|                                                                | Endometrium | Hyperplasia                  | Cystic, Moderate      |
| [ Dilation TGLs = 2-16 ]                                       |             |                              |                       |
| [ Hyperplasia TGLs = 2-16 ]                                    |             |                              |                       |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 406

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-406

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Angiectasis TGLs = 1-19 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 408

TRT#: 4

SEX: Female

DAY ON TEST: 750

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nerve Trigeminal          | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                       |                                  |                       |                     |
|---------------------------------------|----------------------------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular                      | Hyperplasia           | Mild                |
| * Brain                               |                                  | Mineral               | Minimal             |
| * Harderian Gland                     |                                  | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium                     | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |                                  | Basophilic Focus      |                     |
|                                       |                                  | Necrosis              | Minimal             |
|                                       | [ Basophilic Focus TGLs = 5-12 ] |                       |                     |
| * Ovary                               |                                  | Hemangiosarcoma       |                     |
|                                       | [ Hemangiosarcoma TGLs = 3-16 ]  |                       |                     |
| * Parathyroid Gland                   |                                  |                       |                     |
| Note: One parathyroid gland examined. |                                  |                       |                     |
| * Salivary Glands                     |                                  | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                     |                                  | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium                      | Hyperplasia           | Cystic, Mild        |
|                                       | [ Hyperplasia TGLs = 2-16 ]      |                       |                     |

Animal Note: TGLs 1 & 4 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 409

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                             |
|---------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain Trigeminal Ganglion |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal       | * Nose                      |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland         | * Salivary Glands           | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thymus                  | * Thyroid Gland             | * Trachea                |                             |

MISSING

- \* Aorta

OBSERVATIONS

- |                                        |                          |                                          |                          |
|----------------------------------------|--------------------------|------------------------------------------|--------------------------|
| * Adrenal Cortex                       | Subcapsular<br>Bilateral | Hyperplasia<br>Vacuolization Cytoplasmic | Mild<br>Mild             |
| Note: One adrenal gland is on slide 5. |                          |                                          |                          |
| * Adren Medulla                        |                          |                                          |                          |
| Note: One adrenal gland is on slide 5. |                          |                                          |                          |
| * Brain                                |                          | Mineral                                  | Minimal                  |
| * Harderian GI                         |                          |                                          |                          |
| Note: One harderian gland examined.    |                          |                                          |                          |
| * Kidney                               | Interstitium             | Infiltration Cellular                    | Lymphocyte, Minimal      |
| * Parathyroid GI                       |                          |                                          |                          |
| Note: One parathyroid gland examined.  |                          |                                          |                          |
| * Pituitary GI                         |                          |                                          |                          |
| Note: Pars distalis examined.          |                          |                                          |                          |
| * Urinary Bladder                      |                          | Infiltration Cellular                    | Lymphocyte, Minimal      |
| * Uterus                               | Endometrium              | Dilation<br>Hyperplasia                  | Moderate<br>Cystic, Mild |

[ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 409

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-409

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-16 ]

---

Animal Note: TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 410

TRT#: 4

SEX: Female

DAY ON TEST: 650

DOSE: 2.5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Bone Decreased Bone Moderate
  - Note: The marrow cavity in the nasal bones was greatly enlarged.
- \* Brain Mineral Minimal
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild
- \* Liver Hepatocellular Carcinoma TGLs = 4-12 ] Hepatocellular Carcinoma
- Mesentery Fat Necrosis Mild
  - [ Necrosis TGLs = 3-19 ]
- \* Ovary Cyst
  - Note: The ovarian cyst was a hematocyst.
  - [ Cyst TGLs = 2-16 ]
- \* Parathyroid Gland Note: One parathyroid gland examined.
- \* Salivary Glands Infiltration Cellular Lymphocyte, Minimal
- \* Spleen Extramedullary Hematopoiesis Moderate
  - [ Extramedullary Hematopoiesis TGLs = 1-12 ]
- \* Thymus Atrophy Marked

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 410

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 650

**DOSE:** 2.5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-410

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Infiltration Cellular

Histiocyte, Moderate

\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

---

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

---

Animal Note: TGLs 5-7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 411

TRT#: 4

SEX: Female

DAY ON TEST: 745

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain                   | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                |
| * Eye                     | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nerve Trigeminal          | * Nose                      | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Skeletal Muscle         | * Skin                      | * Spinal Cord               | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            |
| * Trachea                 |                             |                             |                            |

OBSERVATIONS

- |                   |              |                       |                     |
|-------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia           | Mild                |
| * Gallbladder     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Harderian Gland |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney          | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver           |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Salivary Glands |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus          | Endometrium  | Hyperplasia           | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 413

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Clitoral Gland            | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Salivary Glands        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- |                             |                    |         |
|-----------------------------|--------------------|---------|
| * Brain Trigeminal Ganglion | * Nerve Trigeminal | * Ovary |
|-----------------------------|--------------------|---------|

OBSERVATIONS

- |                                    |             |                       |                     |
|------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular | Hyperplasia           | Mild                |
| * Brain                            |             | Mineral               | Mild                |
| * Kidney                           |             | Infarct               | Mild                |
| * Lung                             |             | Infiltration Cellular | Lymphocyte, Mild    |
| Tissue NOS                         |             | Lymphoma Malignant    |                     |
| [ Lymphoma Malignant TGLs = 1-16 ] |             |                       |                     |
| * Urinary Bladder                  |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                           | Endometrium | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 2-16 ]        |             |                       |                     |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 414

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-414

ORGAN AND ACCOUNTABLE SITE STATUS

<p>* Ovary</p> <p>[ Lymphoma Malignant TGLs = 13-27 ]</p> <p>[ Cyst TGLs = 3-16 ]</p> <p>* Spleen</p> <p>[ Lymphoma Malignant TGLs = 6-12 ]</p> <p>* Stomach, Forestomach</p> <p>* Thymus</p> <p>[ Lymphoma Malignant TGLs = 14-6 ]</p> <p>* Uterus</p> <p>[ Hyperplasia TGLs = 5-16 ]</p>	<p>Follicle</p> <p>Endometrium</p>	<p>Cyst</p> <p>Lymphoma Malignant</p> <p>Lymphoma Malignant</p> <p>Lymphoma Malignant</p> <p>Lymphoma Malignant</p> <p>Hyperplasia</p> <p>Lymphoma Malignant</p>	<p>Cystic, Moderate</p>
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Animal Note: TGL 17 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 417

TRT#: 4

SEX: Female

DAY ON TEST: 751

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nose                      | * Ovary                  | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands        | * Skeletal Muscle          | * Skin                      |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                |                            |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                     |                                       |                       |                         |
|---------------------|---------------------------------------|-----------------------|-------------------------|
| * Adrenal Cortex    | Subcapsular                           | Hyperplasia           | Mild                    |
| * Bone              |                                       | Increased Bone        | Mild                    |
|                     | [ Increased Bone TGLs = 3-17.1RC ]    |                       |                         |
| * Brain             |                                       | Mineral               | Minimal                 |
| * Harderian Gland   |                                       | Infiltration Cellular | Lymphocyte, Minimal     |
| * Kidney            |                                       | Infarct               | Marked                  |
|                     | Interstitium                          | Infiltration Cellular | Lymphocyte, Marked      |
|                     | Papilla                               | Mineral               | Mild                    |
|                     | [ Infarct TGLs = 2-13.1RC ]           |                       |                         |
| * Liver             |                                       | Infiltration Cellular | Lymphocyte, Mild        |
| Lymph Node          | Lumbar                                | Hyperplasia           | Lymphoid, Moderate      |
|                     | [ Hyperplasia TGLs = 4-19 ]           |                       |                         |
| * Pancreas          |                                       | Infiltration Cellular | Lymphocyte, Minimal     |
| * Parathyroid Gland |                                       |                       |                         |
|                     | Note: One parathyroid gland examined. |                       |                         |
| * Spinal Cord       | Artery, Meninges                      | Inflammation          | Chronic Active, Minimal |
| * Urinary Bladder   |                                       | Infiltration Cellular | Lymphocyte, Minimal     |
| * Uterus            | Endometrium                           | Hyperplasia           | Cystic, Moderate        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 417

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 2.5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-417

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 1-16 ]

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 418

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Mammary Gland          | * Nose                     | * Ovary                   |
| * Peripheral Nerve, Sciatic | * Skeletal Muscle        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |

MISSING

- |                             |                    |                     |
|-----------------------------|--------------------|---------------------|
| * Brain Trigeminal Ganglion | * Nerve Trigeminal | * Parathyroid Gland |
|-----------------------------|--------------------|---------------------|

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                          |                                 |                       |                         |
|--------------------------|---------------------------------|-----------------------|-------------------------|
| * Adrenal Cortex         | Subcapsular                     | Hyperplasia           | Mild                    |
| * Brain                  | Artery, Meninges                | Inflammation          | Chronic Active, Minimal |
|                          |                                 | Mineral               | Minimal                 |
| * Eye                    |                                 |                       |                         |
| Note: One eye examined.  |                                 |                       |                         |
| * Harderian Gland        |                                 | Adenoma               |                         |
|                          |                                 | Infiltration Cellular | Lymphocyte, Minimal     |
| * Kidney                 |                                 | Infarct               | Minimal                 |
|                          |                                 | Lymphoma Malignant    |                         |
| * Liver                  |                                 | Infiltration Cellular | Lymphocyte, Mild        |
| Lymph Node               |                                 | Lymphoma Malignant    |                         |
| [ Lymphoma Malignant     | TGLs = 4-19, 6-20, 8-21, 7-22 ] |                       |                         |
| * Lymph Node, Mandibular |                                 | Lymphoma Malignant    |                         |
| [ Lymphoma Malignant     | TGLs = 1-24RT ]                 |                       |                         |
| * Lymph Node, Mesenteric |                                 | Lymphoma Malignant    |                         |
| [ Lymphoma Malignant     | TGLs = 5-15 ]                   |                       |                         |
| Mesentery                | Fat                             | Necrosis              | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 418

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-418

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 9-23 ]

\* Pancreas

Infiltration Cellular

Lymphocyte, Minimal

\* Salivary Glands

Infiltration Cellular

Lymphocyte, Mild

\* Spinal Cord

Artery, Meninges

Inflammation

Chronic Active, Minimal

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 3-12 ]

\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLs = 2-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 419

TRT#: 4

SEX: Female

DAY ON TEST: 746

DOSE: 2.5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Mammary Gland             | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                          |               |                       |                     |
|--------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex         | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                  |               | Mineral               | Minimal             |
| * Harderian Gland        |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                 | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric |               | Infiltration Cellular | Histiocyte, Mild    |
| * Pituitary Gland        | Pars Distalis | Angiectasis           | Mild                |
| * Salivary Glands        |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder        |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                 | Endometrium   | Hyperplasia           | Cystic, Mild        |
|                          |               | Polyp Stromal         |                     |

[ Polyp Stromal TGLs = 1-16 ]



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 526

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Spinal Cord
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skeletal Muscle
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Skin
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Mild
- \* Gallbladder                                              Cyst
- \* Harderian Gland                                              Infiltration Cellular                                              Lymphocyte, Mild
- \* Kidney                                              Interstitium                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Liver                                                                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Ovary  
    Note: One ovary examined.
- \* Parathyroid GI  
    Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic                      Axon                                              Degeneration                                              Minimal
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Spleen                                                                                              Hyperplasia                                              Lymphoid, Mild
- \* Stomach, Glandular                                              Cyst
- \* Urinary Bladder                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Uterus                                                                                              Dilation                                              Mild
- Endometrium                                              Hyperplasia                                              Cystic, Moderate

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 527

TRT#: 6

SEX: Female

DAY ON TEST: 631

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Liver
- \* Nerve Trigeminal
- \* Spinal Cord
- \* Trachea
- \* Aorta
- \* Eye
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Stomach, Forestomach
- \* Bone
- \* Gallbladder
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Clitoral Gland
- \* Heart
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Skin
- \* Thyroid Gland

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland
- \* Thymus

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum

INSUFFICIENT TISSUE

- \* Mammary Gland

OBSERVATIONS

- |                               |              |                       |                     |
|-------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex              | Subcapsular  | Hyperplasia           | Mild                |
| * Bone Marrow                 |              | Hemangiosarcoma       |                     |
| * Brain                       |              | Mineral               | Mild                |
| * Harderian Gland             |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                      | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
| * Ovary                       |              | Cyst                  |                     |
| [ Cyst TGLs = 3-16 ]          |              |                       |                     |
| * Pancreas                    |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Peripheral Nerve, Sciatic   | Axon         | Degeneration          | Mild                |
| * Pituitary Gland             |              |                       |                     |
| Note: Pars distalis examined. |              |                       |                     |
| * Salivary Glands             |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Skeletal Muscle             |              | Degeneration          | Minimal             |
|                               |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Spleen                      |              | Hemangiosarcoma       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 527

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 631

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-527

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hemangiosarcoma TGLs = 2-12 ]

\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

---

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Hemangiosarcoma

---

Animal Note: TGL 1 = NST; TGLs 4-6 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 529

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric    | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                   |              |                       |                     |
|-------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia           | Mild                |
| * Brain           |              | Mineral               | Mild                |
| * Harderian Gland |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney          | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
|                   |              | Metaplasia            | Osseous             |
| * Pancreas        |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Salivary Glands |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus          |              | Dilation              | Moderate            |

[ Dilation TGLs = 2-16 ]

Animal Note: TGL 1 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 530

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Mammary Gland
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Trachea

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                             |             |                       |                     |
|-----------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular | Hyperplasia           | Mild                |
| * Bone                      |             | Fibro-Osseous Lesion  | Mild                |
| * Brain                     |             | Mineral               | Mild                |
| * Harderian Gland           |             | Adenoma               |                     |
|                             |             | Infiltration Cellular | Lymphocyte, Minimal |
| Mesentery                   | Fat         | Necrosis              | Moderate            |
| [ Necrosis TGLs = 2-19 ]    |             |                       |                     |
| * Salivary Glands           |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Thymus                    |             | Cyst                  |                     |
| * Uterus                    | Endometrium | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ] |             |                       |                     |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 531

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-531

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Dilation

Hyperplasia

Moderate

Cystic, Mild

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]

---

Animal Note: TGL 4 = NCL

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 532

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-532

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Extramedullary Hematopoiesis TGLs = 4-12 ]

\* Thymus

Atrophy

Marked

\* Thyroid GI

Note: One thyroid gland examined.

\* Uterus

Dilation

Minimal

[ Dilation TGLs = 1-16 ]

---

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

---

Animal Note: TGL 2 = NST; TGL 7 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric    | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland             | * Trachea                   |                          |                            |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                           |               |                       |                     |
|---------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex          | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                   |               | Mineral               | Mild                |
| * Harderian Gland         |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                  | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                   |               |                       |                     |
| Note: One ovary examined. |               |                       |                     |
| * Pancreas                | Acinus        | Atrophy               | Moderate            |
|                           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Pituitary Gland         | Pars Distalis | Angiectasis           | Minimal             |
| * Salivary Glands         |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Spleen                  |               | Hyperplasia           | Lymphoid, Minimal   |
| * Urinary Bladder         |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                  |               | Dilation              | Marked              |

[ Dilation TGLs = 2-16 ]

Animal Note: TGLs 1 & 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 534

TRT#: 6

SEX: Female

DAY ON TEST: 750

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Clitoral Gland           | * Eye                     | * Gallbladder               | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nerve Trigeminal          | * Nose                   |
| * Ovary                    | * Pancreas                | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Skeletal Muscle          | * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |

MISSING

- |                             |             |                     |                   |
|-----------------------------|-------------|---------------------|-------------------|
| * Brain Trigeminal Ganglion | * Esophagus | * Parathyroid Gland | * Urinary Bladder |
|-----------------------------|-------------|---------------------|-------------------|

OBSERVATIONS

- |                           |                             |                       |                     |
|---------------------------|-----------------------------|-----------------------|---------------------|
| * Adrenal Cortex          | Subcapsular                 | Hyperplasia           | Mild                |
| * Brain                   |                             | Mineral               | Mild                |
| * Harderian Gland         |                             | Infiltration Cellular | Lymphocyte, Minimal |
| * Heart                   | Myocardium                  | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                  |                             | Infarct               | Minimal             |
|                           | Interstitium                | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                   |                             | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                   |                             |                       |                     |
| Note: One ovary examined. |                             |                       |                     |
| * Salivary Glands         |                             | Infiltration Cellular | Lymphocyte, Minimal |
| * Skin                    | Hair Follicle               | Atrophy               | Moderate            |
|                           | [ Atrophy TGLs = 1-9 ]      |                       |                     |
| * Uterus                  | Endometrium                 | Hyperplasia           | Cystic, Moderate    |
|                           | [ Hyperplasia TGLs = 2-16 ] |                       |                     |





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 535

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-535

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 2-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-537

ORGAN AND ACCOUNTABLE SITE STATUS

* Peripheral Nerve, Sciatic	Axon	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 7-4 ]			
* Skin	Subcut Tiss	Malignant Fibrous Histiocytoma	
[ Malignant Fibrous Histiocytoma TGLs = 8-19 ]		Ulcer	Moderate
* Spleen		Extramedullary Hematopoiesis	Moderate
[ Extramedullary Hematopoiesis TGLs = 1-12 ]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilation	Mild
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

Animal Note: TGLs 2, 3, & 9 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 539

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla  
    Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Mild
- \* Kidney                                      Infarct                                      Mild
- Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Necrosis                                      Minimal
- \* Lymph Node, Mesenteric                      Hemorrhage                                      Moderate
- \* Skin                                              Atrophy                                      Moderate
- [ Atrophy    TGLs = 1-9 ]
- \* Thyroid Gl  
    Note: One thyroid gland examined.
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Endometrium                                      Hyperplasia                                      Cystic, Mild
- [ Hyperplasia    TGLs = 2-16 ]

Animal Note: TGLs 3 & 4 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 540

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus                 | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                      | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Salivary Glands          | * Skeletal Muscle         |
| * Skin                      | * Spinal Cord               | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland             | * Trachea                  |                           |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                   |                                   |                       |                       |
|-------------------|-----------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                       | Hyperplasia           | Mild                  |
| * Brain           |                                   | Mineral               | Mild                  |
| * Harderian Gland |                                   | Hyperplasia           | Focal, Mild           |
| * Kidney          | Interstitium                      | Infiltration Cellular | Lymphocyte, Minimal   |
|                   |                                   | Nephropathy           | Chronicprogr, Minimal |
| * Liver           |                                   | Basophilic Focus      |                       |
|                   | [ Basophilic Focus TGLs = 1-12 ]  |                       |                       |
| * Pituitary Gland | Pars Distalis                     | Hyperplasia           | Focal, Mild           |
|                   | [ Hyperplasia TGLs = 2-4 ]        |                       |                       |
| * Thymus          |                                   | Cyst                  |                       |
| * Thyroid GI      |                                   |                       |                       |
|                   | Note: One thyroid gland examined. |                       |                       |
| * Urinary Bladder |                                   | Infiltration Cellular | Lymphocyte, Minimal   |
| * Uterus          | Endometrium                       | Hyperplasia           | Cystic, Mild          |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 541

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Thymus
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skin
- \* Thyroid Gland
- \* Bone
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Spinal Cord
- \* Trachea
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach

MISSING

- \* Ovary
- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Lymph Node, Mesenteric

OBSERVATIONS

- |                                                                                                                                                                                                                                                                 |                                                                                                     |                                                                                                                                                                                                                                         |                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Harderian Gland</li> <li>* Kidney</li> <li>* Liver</li> <li>* Lung</li> </ul>                                                                                                                | <ul style="list-style-type: none"> <li>Subcapsular</li> </ul>                                       | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Infiltration Cellular</li> <li>Infarct</li> <li>Infiltration Cellular</li> <li>Alveolar/Bronchiolar Adenoma</li> <li>Infiltration Cellular</li> <li>Necrosis</li> </ul>     | <ul style="list-style-type: none"> <li>Mild</li> <li>Lymphocyte, Minimal</li> <li>Mild</li> <li>Lymphocyte, Mild</li> </ul>                                                                               |
| <ul style="list-style-type: none"> <li>Mesentery<br/>[ Necrosis TGLs = 3-6 ]</li> <li>* Pituitary Gland</li> <li>* Salivary Glands</li> <li>* Spleen<br/>[ Lymphoma Malignant TGLs = 2-12 ]</li> <li>* Stomach, Glandular</li> <li>* Urinary Bladder</li> </ul> | <ul style="list-style-type: none"> <li>Fat</li> <li>Pars Distalis</li> <li>Pars Distalis</li> </ul> | <ul style="list-style-type: none"> <li>Angiectasis</li> <li>Hyperplasia</li> <li>Infiltration Cellular</li> <li>Lymphoma Malignant</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Lymphoma Malignant</li> </ul> | <ul style="list-style-type: none"> <li>Lymphocyte, Mild</li> <li>Moderate</li> <li>Mild</li> <li>Focal, Mild</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Moderate</li> </ul> |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 541

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-541

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Infiltration Cellular

Lymphocyte, Moderate

Lymphoma Malignant

[ Hyperplasia TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 542

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Liver
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skin
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Pituitary Gland
- \* Spleen

OBSERVATIONS

- \* Adrenal Cortex      Subcapsular      Hyperplasia      Mild
- \* Brain      Mineral      Minimal
- \* Harderian Gland      Infiltration Cellular      Lymphocyte, Minimal
- \* Islets, Pancreatic      Adenoma
- \* Kidney      Infarct      Mild
- Mesentery      Interstitium      Infiltration Cellular      Lymphocyte, Minimal
- [ Necrosis    TGLs = 2-20, 3-19 ]      Fat      Necrosis      Mild
- \* Ovary      Granulosa Cell Tumor Benign
- \* Salivary Glands      Infiltration Cellular      Lymphocyte, Minimal
- \* Thyroid Gland
- Note: One thyroid gland examined.
- \* Uterus      Endometrium      Hyperplasia      Cystic, Mild
- [ Hyperplasia    TGLs = 1-16 ]

Animal Note: TGL 4 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 543

TRT#: 6

SEX: Female

DAY ON TEST: 669

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Ovary
- \* Spinal Cord
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Pituitary Gland
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Moderate
- \* Brain Mineral Mild
- \* Harderian Gland Infiltration Cellular Lymphocyte, Mild
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild
- \* Liver Infiltration Cellular Lymphocyte, Mild
- \* Ovary
  - Note: One ovary examined.
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Skeletal Muscle Infiltration Cellular Lymphocyte, Minimal
- \* Skin Subcut Tiss Fibrosarcoma
- [ Fibrosarcoma TGLs = 1-19 ]
- \* Spleen Hyperplasia Lymphoid, Moderate
- [ Hyperplasia TGLs = 2-12 ]
- \* Thymus Hyperplasia Lymphoid, Moderate
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Mild
- \* Uterus Endometrium Hyperplasia Cystic, Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 544

TRT#: 6

SEX: Female

DAY ON TEST: 516

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skeletal Muscle
- \* Trachea
- \* Aorta
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Uterus
- \* Bone
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Pituitary Gland
- \* Thyroid Gland

MISSING

- \* Brain Trigeminal Ganglion
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow                      Lymphoma Malignant
- \* Brain                                      Lymphoma Malignant
- Mineral                                      Mild
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Mild
- \* Heart                                      Lymphoma Malignant
- \* Kidney                                      Lymphoma Malignant
- \* Liver                                      Lymphoma Malignant
- \* Lung                                      Lymphoma Malignant
- \* Lymph Node, Mandibular                      Lymphoma Malignant
- \* Nose                                      Respirat Epith                      Hyperplasia                      Mild
- \* Salivary Glands                      Lymphoma Malignant
- \* Spleen                                      Lymphoma Malignant
- [ Lymphoma Malignant    TGLs = 2-12 ]
- \* Stomach, Forestomach                      Lymphoma Malignant
- \* Stomach, Glandular                      Lymphoma Malignant
- \* Thymus                                      Atrophy                                      Moderate
- Lymphoma Malignant
- \* Thyroid GI

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 544

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 516

**DOSE:** 5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-544

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One thyroid gland examined.

\* Urinary Bladder

Lymphoma Malignant

---

**PRIMARY CAUSE OF DEATH**

- Spleen Lymphoma Malignant

---

Animal Note: TGL 1 = NST

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 545

TRT#: 6

SEX: Female

DAY ON TEST: 752

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mesenteric    | * Mammary Gland           | * Nerve Trigeminal          | * Nose                   |
| * Ovary                     | * Pancreas                | * Peripheral Nerve, Sciatic | * Skeletal Muscle        |
| * Skin                      | * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular        | * Thymus                  | * Thyroid Gland             | * Trachea                |

MISSING

- |                     |                   |
|---------------------|-------------------|
| * Parathyroid Gland | * Pituitary Gland |
|---------------------|-------------------|

OBSERVATIONS

- |                          |              |                       |                     |
|--------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex         | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                  |              | Mineral               | Minimal             |
| * Kidney                 | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mandibular |              | Hemorrhage            | Mild                |
| Mesentery                | Fat          | Necrosis              | Moderate            |
| [ Necrosis TGLs = 1-19 ] |              |                       |                     |
| * Salivary Glands        |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder        |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                 |              | Dilation              | Moderate            |
| [ Dilation TGLs = 2-16 ] |              |                       |                     |



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 546

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 645

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-546

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Pancreas		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 8-12, 9-12 ]		
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder	Urothelium	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLs = 5-16 ]		

---

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

---

Animal Note: TGLs 1 & 4 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 547

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adrenal Medulla                      Pheochromocytoma Benign
- Note: The adrenals are on slide 6.
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                      Hepatocellular Adenoma                      Infiltration Cellular                      Lymphocyte, Minimal
- [ Hepatocellular Adenoma    TGLs = 5-19 ]
- \* Lung                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Pancreas                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Spleen                                      Hyperplasia                                      Lymphoid, Mild
- [ Hyperplasia    TGLs = 2-12 ]
- \* Thymus                                      Cyst
- \* Thyroid Gland
- Note: The thymus is on slide 7.
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Moderate
- \* Uterus                                      Endometrium                                      Hyperplasia                                      Cystic, Moderate
- [ Hyperplasia    TGLs = 1-16 ]

Animal Note: TGLs 3, 4, & 6 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 549

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Spinal Cord
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                  |                       |                      |
|-------------------|------------------|-----------------------|----------------------|
| * Adrenal Cortex  | Subcapsular      | Hyperplasia           | Mild                 |
| * Bone            |                  | Fibro-Osseous Lesion  | Mild                 |
| * Brain           | Artery, Meninges | Inflammation          | Chronic Active, Mild |
|                   |                  | Mineral               | Mild                 |
| * Harderian Gland |                  | Infiltration Cellular | Lymphocyte, Minimal  |
| * Kidney          | Interstitium     | Infiltration Cellular | Lymphocyte, Mild     |
| * Liver           |                  | Infiltration Cellular | Lymphocyte, Minimal  |
| Mesentery         | Fat              | Necrosis              | Minimal              |
| * Pancreas        |                  | Infiltration Cellular | Lymphocyte, Minimal  |
| * Salivary Glands |                  | Infiltration Cellular | Lymphocyte, Mild     |
| * Skeletal Muscle |                  | Infiltration Cellular | Lymphocyte, Mild     |
| * Urinary Bladder |                  | Infiltration Cellular | Lymphocyte, Mild     |
| * Uterus          | Endometrium      | Hyperplasia           | Cystic, Moderate     |

[ Hyperplasia TGLs = 1-16 ]



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 550

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                             |
|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                       |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric    | * Mammary Gland           | * Nerve Trigeminal          | * Nose                      |
| * Ovary                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands         | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland           | * Trachea                   |                             |

OBSERVATIONS

- |                                       |              |                        |                     |
|---------------------------------------|--------------|------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia            | Mild                |
| * Brain                               |              | Mineral                | Mild                |
| * Kidney                              | Interstitial | Infiltration Cellular  | Lymphocyte, Minimal |
| * Liver                               |              | Hepatocellular Adenoma |                     |
|                                       |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Parathyroid Gland                   |              |                        |                     |
| Note: One parathyroid gland examined. |              |                        |                     |
| * Urinary Bladder                     |              | Infiltration Cellular  | Lymphocyte, Minimal |
| * Uterus                              |              | Dilation               | Moderate            |
|                                       | Endometrium  | Hyperplasia            | Cystic, Mild        |

[ Dilation TGLs = 1-16 ]

Animal Note: TGL 2 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 551

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Ovary

OBSERVATIONS

- |                   |              |                       |                     |
|-------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia           | Mild                |
| * Brain           |              | Mineral               | Minimal             |
| * Harderian Gland |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Kidney          | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver           | Artery       | Inflammation          | Chronic, Mild       |
| Mesentery         | Fat          | Necrosis              | Mild                |
| * Salivary Glands |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus          |              | Dilation              | Moderate            |

[ Dilation TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 553

TRT#: 6

SEX: Female

DAY ON TEST: 752

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Trachea                |                            |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Minimal             |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
| * Liver                               |              | Basophilic Focus      |                     |
| [ Basophilic Focus TGLs = 2-12.1RC ]  |              |                       |                     |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Thyroid Gland                       |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                     |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 554

TRT#: 6

SEX: Female

DAY ON TEST: 86

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                             |                             |
|--------------------------|--------------------------|-----------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                  | Blood Vessel                | * Bone                      |
| * Bone Marrow            | * Brain                  | * Brain Trigeminal Ganglion | Ear                         |
| * Esophagus              | * Eye                    | * Harderian Gland           | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum   | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Kidney                    | Lacrimal Gland              |
| Larynx                   | * Liver                  | * Lung                      | Lymph Node                  |
| * Lymph Node, Mandibular | * Mammary Gland          | Mesentery                   | * Nerve Trigeminal          |
| * Nose                   | Oral Mucosa              | * Ovary                     | Oviduct                     |
| * Pancreas               | Peripheral Nerve         | * Peripheral Nerve, Sciatic | Peritoneum                  |
| * Pituitary Gland        | Pleura                   | * Salivary Glands           | * Skeletal Muscle           |
| * Skin                   | * Spinal Cord            | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland          | Tissue NOS                  | Tongue                      |
| Tooth                    | * Trachea                | Ureter                      | Urethra                     |
| * Urinary Bladder        | * Uterus                 | Vagina                      | Zymbal's Gland              |

MISSING

- |                  |                          |                     |          |
|------------------|--------------------------|---------------------|----------|
| * Clitoral Gland | * Lymph Node, Mesenteric | * Parathyroid Gland | * Thymus |
|------------------|--------------------------|---------------------|----------|

AUTO PRECLUDES DIAG.

- |               |                            |
|---------------|----------------------------|
| * Gallbladder | * Intestine Small, Jejunum |
|---------------|----------------------------|

OBSERVATIONS

- |                                  |            |          |
|----------------------------------|------------|----------|
| * Adrenal Cortex                 | Hemorrhage | Moderate |
| * Int Sm Jejunum                 |            |          |
| Note: No correlating lesion (2). |            |          |
| * Thymus                         |            |          |
| Note: NCL                        |            |          |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 555

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland             |
| * Nose                      | * Ovary                  | * Pancreas                 | * Peripheral Nerve, Sciatic |
| * Skeletal Muscle           | * Skin                   | * Spinal Cord              | * Spleen                    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                   |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

INSUFFICIENT TISSUE

- \* Clitoral Gland

OBSERVATIONS

- |                             |               |                       |                     |
|-----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                     |               | Mineral               | Mild                |
| * Harderian Gland           |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Kidney                    |               | Nephropathy           | Chronicprogr, Mild  |
| * Lymph Node, Mesenteric    |               | Infiltration Cellular | Histiocyte, Mild    |
| * Pituitary Gland           | Pars Distalis | Adenoma               |                     |
| [ Adenoma TGLs = 2-4 ]      |               |                       |                     |
| * Salivary Glands           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Stomach, Forestomach      |               | Cyst                  |                     |
| * Urinary Bladder           |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                    | Endometrium   | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ] |               |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 556

TRT#: 6

SEX: Female

DAY ON TEST: 600

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thyroid Gland
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Clitoral Gland  
    Note: One clitoral gland examined.
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                  Nephropathy                                  Chronicprogr, Mild
- \* Lung                                      Carcinoma                                  Metastatic (Pancreas)
- \* Mesentery                              Fat                                          Necrosis                                  Mild  
    [ Necrosis    TGLs = 3-19 ]
- \* Ovary  
    Note: One ovary examined.
- \* Pancreas                              Acinus                                      Carcinoma  
    [ Carcinoma    TGLs = 2-20 ]
- \* Parathyroid Gland
- \* Spleen                                  Extramedullary Hematopoiesis                      Mild  
    [ Extramedullary Hematopoiesis    TGLs = 1-12 ]
- \* Thymus                                  Atrophy                                      Moderate
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                              Hyperplasia                      Cystic, Mild

PRIMARY CAUSE OF DEATH                      - Pancreas Acinus Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 557

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                             |
|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| * Aorta                     | * Bone                      | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                 | * Eye                      | * Harderian Gland           |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nose                      | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord               | * Spleen                   | * Stomach, Forestomach      |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            | * Trachea                   |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

OBSERVATIONS

- |                   |                                        |                        |                     |
|-------------------|----------------------------------------|------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                            | Hyperplasia            | Mild                |
| * Adrenal Medulla |                                        | Hyperplasia            | Moderate            |
| * Brain           |                                        | Mineral                | Minimal             |
| * Gallbladder     |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Kidney          |                                        | Infarct                | Mild                |
|                   | Interstitium                           | Infiltration Cellular  | Lymphocyte, Mild    |
| * Liver           |                                        | Hepatocellular Adenoma |                     |
|                   | [ Hepatocellular Adenoma TGLs = 3-19 ] |                        |                     |
| * Ovary           |                                        | Cyst                   |                     |
|                   | [ Cyst TGLs = 2-16 ]                   |                        |                     |
| * Pancreas        |                                        | Infiltration Cellular  | Lymphocyte, Minimal |
| * Salivary Glands |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Urinary Bladder |                                        | Infiltration Cellular  | Lymphocyte, Mild    |
| * Uterus          | Endometrium                            | Hyperplasia            | Cystic, Moderate    |
|                   | [ Hyperplasia TGLs = 1-16 ]            |                        |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 558

TRT#: 6

SEX: Female

DAY ON TEST: 646

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Liver
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Trachea
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Stomach, Forestomach

MISSING

- \* Esophagus
- \* Lymph Node, Mandibular
- \* Ovary
- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Ileum

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular Hemorrhage Mild
  - Hyperplasia Mild
- \* Brain
  - Mineral Minimal
- \* Kidney
  - Infarct Mild
  - Nephropathy Chronicprogr, Mild
- [ Nephropathy TGLs = 5-13 ]
- \* Lung
  - Fibrosarcoma Metastatic (Skin)
- Mesentery
  - Fat Necrosis Mild
- [ Necrosis TGLs = 3-20 ]
- \* Skin
  - Subcut Tiss Fibrosarcoma
- [ Fibrosarcoma TGLs = 1-19 ]
- \* Spleen
  - Extramedullary Hematopoiesis Mild
- [ Extramedullary Hematopoiesis TGLs = 4-12 ]
- \* Thymus
  - Atrophy Moderate
- \* Thyroid GI
  - Note: One thyroid gland examined.

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 558

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-558

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

\* Uterus

Dilation

Moderate

[ Dilation TGLs = 2-16 ]

---

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Fibrosarcoma

---



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 559

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-559

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 3-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 560

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Urinary Bladder

MISSING

- \* Gallbladder
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Cyst                                      Squamous
- Mineral                                      Mild
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- Lymph Node                              Iliac                                      Infiltration Cellular                      Mixed Cell, Mild
- Iliac                                      Pigment                                      Mild
- [ Infiltration Cellular    TGLs = 5-19 ]
- [ Pigment            TGLs = 4-19 ]
- \* Ovary
- Note: One ovary examined.
- \* Pancreas                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Thyroid Gland                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                              Dilation                                      Moderate
- Endometrium                                      Hyperplasia                                      Cystic, Moderate
- [ Dilation            TGLs = 2-16 ]

Animal Note: TGLs 1 & 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 561

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Ovary                    |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Minimal             |
| * Clitoral GI                         |              |                       |                     |
| Note: One clitoral gland examined.    |              |                       |                     |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
| * Ovary                               |              |                       |                     |
| Note: One ovary examined.             |              |                       |                     |
| * Pancreas                            |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |
- [ Hyperplasia TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 562

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Aorta                     | * Bone                      | * Bone Marrow               | * Brain                    |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric    | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Ovary                     | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Salivary Glands          |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord               | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland             | * Trachea                  |

MISSING

- |                   |                   |
|-------------------|-------------------|
| * Adrenal Medulla | * Urinary Bladder |
|-------------------|-------------------|

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                           |              |                       |                     |
|---------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex          | Subcapsular  | Hyperplasia           | Mild                |
| * Harderian Gland         |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                  |              | Infarct               | Mild                |
|                           | Interstitial | Infiltration Cellular | Lymphocyte, Mild    |
| * Ovary                   |              |                       |                     |
| Note: One ovary examined. |              |                       |                     |
| * Pancreas                |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Spleen                  |              | Hyperplasia           | Lymphoid, Mild      |
| * Uterus                  | Endometrium  | Hyperplasia           | Cystic, Mild        |

[ Hyperplasia TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 563

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Ovary
- \* Skin
- \* Thyroid Gland
- \* Aorta
- \* Eye
- \* Parathyroid Gland
- \* Spinal Cord
- \* Trachea
- \* Bone
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Brain Trigeminal Ganglion
- \* Clitoral Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Intestine Large, Rectum

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Brain Mineral Minimal
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Heart Lymphoma Malignant
- \* Islets, Pancreatic Hyperplasia Moderate
- \* Kidney Lymphoma Malignant
- \* Liver Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 15-12, 16-12, 17-12, 18-12 ]
- \* Lung Lymphoma Malignant
- Lymph Node Lymphoma Malignant
- Note: The following TGLs (all due to malignant lymphoma) could not be entered (not enough space): Lumbar LN - 29-23, Pancreatic LN - 26-24, Caudal LN 30-29
- [ Lymphoma Malignant TGLs = 19-19,20-19,21-20,22-21 23-21,24-22,25-22,28-23 ]
- \* Lymph Node, Mandibular Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 1-9, 2-9 ]
- \* Lymph Node, Mesenteric Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 8-27, 9-27 ]
- \* Mammary Gland Hyperplasia Diffuse, Mild
- Mesentery Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 563

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-563

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant TGLs = 12-16, 5-28 ]

\* Pancreas

Lymphoma Malignant

\* Parathyroid Gland

Note: One parathyroid gland examined.

\* Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLs = 14-4 ]

\* Skeletal Muscle

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 6-25 ]

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 10-12, 11-12 ]

\* Thymus

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 7-26 ]

\* Urinary Bladder

Lymphoma Malignant

\* Uterus

Endometrium

Angiectasis

Mild

Hyperplasia

Cystic, Mild

Lymphoma Malignant

[ Angiectasis TGLs = 4-16 ]

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

Animal Note: TGL 3 = NST; TGL 13 = NCL





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 564

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 674

**DOSE:** 5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-564

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Stomach, Glandular [ Ulcer TGLs = 6-14 ]	Epithelium	Hyperplasia Ulcer	Focal, Mild Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

---

PRIMARY CAUSE OF DEATH - Pancreas Lymphoma Malignant

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 565

TRT#: 6

SEX: Female

DAY ON TEST: 324

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                             |                             |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | * Aorta                     | * Bone                      |
| * Bone Marrow            | * Brain                     | * Brain Trigeminal Ganglion | * Clitoral Gland            |
| * Esophagus              | * Eye                       | * Harderian Gland           | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum   | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular    |
| * Mammary Gland          | * Nerve Trigeminal          | * Nose                      | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Salivary Glands           |
| * Skeletal Muscle        | * Skin                      | * Spinal Cord               | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland             | * Trachea                   | * Urinary Bladder           |
| * Uterus                 |                             |                             |                             |

MISSING

- \* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

- |               |                            |          |
|---------------|----------------------------|----------|
| * Gallbladder | * Intestine Small, Jejunum | * Kidney |
|---------------|----------------------------|----------|

OBSERVATIONS

- |                                            |                                           |                              |          |
|--------------------------------------------|-------------------------------------------|------------------------------|----------|
| * Harderian Gland                          |                                           |                              |          |
| Note: One Harderian Gland present.         |                                           |                              |          |
| * Liver                                    |                                           | Necrosis                     | Mild     |
| Lymph Node                                 | Renal                                     | Erythrophagocytosis          | Moderate |
|                                            | Iliac                                     | Hemorrhage                   | Marked   |
|                                            | [ Erythrophagocytosis TGLs = 4-19, 5-19 ] |                              |          |
|                                            | [ Hemorrhage TGLs = 6-20 ]                |                              |          |
| * Ovary                                    | Follicle                                  | Cyst                         |          |
|                                            |                                           | Cyst                         | Squamous |
| Note: One of the cysts is a squamous syst. |                                           |                              |          |
|                                            | [ Cyst TGLs = 1-16 ]                      |                              |          |
|                                            | [ Cyst TGLs = 1-16 ]                      |                              |          |
| * Spleen                                   |                                           | Extramedullary Hematopoiesis | Moderate |
| * Thymus                                   |                                           | Atrophy                      | Marked   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 565

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 324

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-565

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Atrophy TGLs = 3-6.1RC ]

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

**Animal Note:** TGL 2 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 566

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain                    | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland             | * Nose                      | * Ovary                  |
| * Parathyroid Gland        | * Peripheral Nerve, Sciatic | * Skeletal Muscle           | * Skin                   |
| * Spinal Cord              | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland             | * Trachea                   |                          |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |               |                              |                     |
|---------------------------------------|---------------|------------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia                  | Mild                |
| * Harderian Gland                     |               | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney                              |               | Infarct                      | Mild                |
|                                       | Interstitium  | Infiltration Cellular        | Lymphocyte, Mild    |
| * Lung                                |               | Alveolar/Bronchiolar Adenoma |                     |
| * Ovary                               |               |                              |                     |
| Note: One ovary examined.             |               |                              |                     |
| * Pancreas                            |               | Infiltration Cellular        | Lymphocyte, Minimal |
| * Parathyroid Gland                   |               |                              |                     |
| Note: One parathyroid gland examined. |               |                              |                     |
| * Pituitary Gland                     | Pars Distalis | Adenoma                      |                     |
| [ Adenoma TGLs = 1-4, 2-4 ]           |               |                              |                     |
| * Salivary Glands                     |               | Infiltration Cellular        | Lymphocyte, Minimal |
| * Urinary Bladder                     |               | Infiltration Cellular        | Lymphocyte, Minimal |
| * Uterus                              | Endometrium   | Hyperplasia                  | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 567

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Gallbladder
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Clitoral Gland
- Note: One clitoral gland examined.
- \* Harderian Gland                                              Infiltration Cellular                                              Lymphocyte, Mild
- \* Kidney                                              Interstitium                                              Infiltration Cellular                                              Lymphocyte, Mild
- Nephropathy                                              Chronicprogr, Minimal
- \* Liver
- [ Hepatocellular Adenoma    TGLs = 3-12 ]
- Mesentery                                              Fat                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 2-19 ]
- \* Ovary
- Note: One ovary examined.
- \* Pancreas                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Thymus                                              Cyst

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 567

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-567

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

\* Uterus

[ Hyperplasia TGLs = 1-16 ]

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Moderate

---







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 570

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Mild
- \* Clitoral Gland  
    Note: One clitoral gland examined.
- \* Harderian Gland                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                              Hepatocellular Adenoma                      Hepatocellular Adenoma
- [ Hepatocellular Adenoma    TGLs = 3-12 ]
- Mesentery                                              Fat                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 2-19 ]
- \* Ovary                                              Cystadenoma
- \* Parathyroid Gland  
    Note: One parathyroid gland examined.
- \* Skeletal Muscle                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Dilation                                              Marked
- [ Dilation    TGLs = 1-16 ]                                              Endometrium                                              Hyperplasia                                              Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 570

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-570

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-16 ]

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 571

TRT#: 6

SEX: Female

DAY ON TEST: 752

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-571

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

* Spleen	[ Malignant Fibrous Histiocytoma TGLs = 1-21 ]	Extramedullary Hematopoiesis Lymphoma Malignant	Mild
* Thymus	[ Extramedullary Hematopoiesis TGLs = 4-12 ] [ Lymphoma Malignant TGLs = 3-12 ]	Lymphoma Malignant	
* Uterus	[ Lymphoma Malignant TGLs = 6-6 ] Endometrium [ Hyperplasia TGLs = 2-16 ]	Hyperplasia	Cystic, Moderate

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 572

TRT#: 6

SEX: Female

DAY ON TEST: 752

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Pancreas
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nose
- \* Skin
- \* Thymus

MISSING

- \* Nerve Trigeminal

INSUFFICIENT TISSUE

- \* Peripheral Nerve, Sciatic

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland			
Note: One clitoral gland examined.			
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Mild
		Metaplasia	Osseous
	Papilla	Mineral	Minimal
* Mammary Gland	Duct	Dilation	Mild
* Ovary		Cyst	
[ Cyst TGLs = 1-16 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-4 ]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 572

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 752

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-572

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: TGLs 2-4 = NCL

Animal Note: TGL 5 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 574

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Intestine Small, Ileum

OBSERVATIONS

- |                                                                                                                                                                                                                                            |                                                                                                                               |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Brain</li> <li>* Harderian Gland</li> <li>* Kidney</li> <li>* Liver</li> <li>* Ovary</li> <li>* Salivary Glands</li> <li>* Urinary Bladder</li> <li>* Uterus</li> </ul> | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>Interstitialium</li> <li>Follicle</li> <li>Endometrium</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Cyst</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Dilation</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Mild</li> <li>Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Minimal</li> <li>Moderate</li> <li>Cystic, Moderate</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 575

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                   |              |                       |                       |
|-------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia           | Mild                  |
| * Brain           |              | Mineral               | Mild                  |
| * Harderian Gland |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney          |              | Infarct               | Mild                  |
|                   | Interstitium | Infiltration Cellular | Lymphocyte, Mild      |
|                   |              | Nephropathy           | Chronicprogr, Minimal |
| * Liver           |              | Basophilic Focus      |                       |
| * Lung            |              | Congestion            | Moderate              |
| * Pancreas        | Duct         | Cyst                  |                       |
|                   |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Salivary Glands |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Urinary Bladder |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Uterus          | Endometrium  | Hyperplasia           | Cystic, Mild          |

[ Hyperplasia TGLs = 1-16 ]



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 576

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-576

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

[ Hyperplasia TGLs = 4-12.1RC ]

Hyperplasia

Lymphoid, Moderate

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

\* Uterus

[ Dilation TGLs = 2-16 ]

Dilation

Moderate

---

Animal Note: TGL 8 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 578

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Nose
- \* Pituitary Gland
- \* Thyroid Gland
- \* Aorta
- \* Gallbladder
- \* Islets, Pancreatic
- \* Pancreas
- \* Skeletal Muscle
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Urinary Bladder
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Colon
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach

MISSING

- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Histiocytic Sarcoma
    - Hyperplasia
- \* Bone Marrow
  - Histiocytic Sarcoma
- \* Brain
  - Mineral
- \* Clitoral Gland
  - Histiocytic Sarcoma
- \* Eye
  - Cornea
    - Inflammation
- \* Heart
  - Hemangioma
- \* Kidney
  - Histiocytic Sarcoma
- \* Liver
  - [ Histiocytic Sarcoma TGLs = 5-13, 6-13, 7-13 ]
  - [ Histiocytic Sarcoma TGLs = 8-12, 9-12 ]
- \* Lung
  - Histiocytic Sarcoma
- \* Lymph Node
  - Histiocytic Sarcoma
- \* Lymph Node, Mandibular
  - [ Histiocytic Sarcoma TGLs = 11-20, 12-21, 13-21 ]
  - [ Histiocytic Sarcoma TGLs = 10-9 ]
- \* Ovary
  - Histiocytic Sarcoma
- \* Parathyroid Gland

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 578

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-578

ORGAN AND ACCOUNTABLE SITE STATUS

Note: One parathyroid gland examined.

\* Pituitary Gland

Note: Pars distalis examined.

\* Salivary Glands

Mineral

Minimal

\* Skin

Histiocytic Sarcoma

[ Histiocytic Sarcoma TGLs = 1-19, 2-19 ]

\* Spleen

Histiocytic Sarcoma

[ Histiocytic Sarcoma TGLs = 3-12, 4-12 ]

\* Thymus

Atrophy

Moderate

\* Uterus

Histiocytic Sarcoma

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

Animal Note: TGL 14 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 579

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-579

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Dilation

Moderate

[ Dilation TGLs = 4-16 ]

---





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 580

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-580

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

\* Urinary Bladder

\* Uterus

[ Hyperplasia TGLs = 1-16 ]

Endometrium

Extramedullary Hematopoiesis

Infiltration Cellular

Hyperplasia

Mild

Lymphocyte, Minimal

Cystic, Mild

---

Animal Note: TGL 4 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 581

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |               |                       |                     |
|---------------------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                               |               | Mineral               | Minimal             |
| * Harderian Gland                     |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid Gland                   |               |                       |                     |
| Note: One parathyroid gland examined. |               |                       |                     |
| * Pituitary Gland                     | Pars Distalis | Angiectasis           | Minimal             |
| [ Angiectasis TGLs = 2-4 ]            |               |                       |                     |
| * Salivary Glands                     |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                     |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium   | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |               |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 582

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Ovary
- \* Pituitary Gland
- \* Spinal Cord
- \* Urinary Bladder
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Accessory Adrenal Cortical Nodule
    - Hyperplasia
    - Hemangiosarcoma
    - Mineral
    - Extramedullary Hematopoiesis
    - Infiltration Cellular
- \* Bone Marrow
- \* Brain
- \* Liver
  - Iliac
    - [ Infiltration Cellular TGLs = 3-19, 4-19 ]
- \* Lymph Node, Mesenteric
  - Infiltration Cellular
- \* Spleen
  - Extramedullary Hematopoiesis
  - Hemangiosarcoma
- \* Thymus
  - [ Extramedullary Hematopoiesis TGLs = 1-12 ]
  - [ Hemangiosarcoma TGLs = 1-12 ]
- \* Thyroid Gland
- \* Uterus
  - Endometrium
    - Cyst
    - Ultimobranchial Cyst
    - Hyperplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 585

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            | * Nerve Trigeminal          |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Salivary Glands          | * Skeletal Muscle           |
| * Skin                      | * Spinal Cord            | * Stomach, Forestomach     | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                             |

OBSERVATIONS

- |                                       |                                              |                              |                     |
|---------------------------------------|----------------------------------------------|------------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular                                  | Hyperplasia                  | Mild                |
| * Bone Marrow                         |                                              | Hypercellularity             | Mild                |
| * Brain                               |                                              | Mineral                      | Minimal             |
| * Clitoral GI                         |                                              |                              |                     |
| Note: One clitoral gland examined.    |                                              |                              |                     |
| * Harderian Gland                     |                                              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Kidney                              | Interstitium                                 | Infiltration Cellular        | Lymphocyte, Mild    |
| * Liver                               |                                              | Hepatocellular Carcinoma     |                     |
|                                       | [ Hepatocellular Carcinoma TGLs = 3-12 ]     |                              |                     |
| * Lymph Node, Mesenteric              |                                              | Infiltration Cellular        | Histiocyte, Mild    |
| Mesentery                             | Fat                                          | Necrosis                     | Moderate            |
|                                       | [ Necrosis TGLs = 2-15 ]                     |                              |                     |
| * Parathyroid GI                      |                                              |                              |                     |
| Note: One parathyroid gland examined. |                                              |                              |                     |
| * Spleen                              |                                              | Extramedullary Hematopoiesis | Moderate            |
|                                       | [ Extramedullary Hematopoiesis TGLs = 1-12 ] |                              |                     |
| * Urinary Bladder                     |                                              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Uterus                              | Endometrium                                  | Hyperplasia                  | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 586

TRT#: 6

SEX: Female

DAY ON TEST: 750

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Spleen
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Clitoral Gland  
    Note: One clitoral gland examined.
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Ovary  
    [ Cyst    TGLs = 3-16 ]  
    Cyst                                      Cyst
- \* Pancreas                                      Duct                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Parathyroid Gland  
    Note: One parathyroid gland examined.
- \* Saliv Glands  
    Note: Pars distalis examined.
- \* Thyroid Gland                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Endometrium                                      Hyperplasia                                      Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 586

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2-16 ]

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Animal Note: TGLs 1 & 4 = NCL

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**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 587

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-587

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 2-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 588

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Trachea                   |                             |                          |                            |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                             |              |                       |                     |
|-----------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                     |              | Mineral               | Minimal             |
| * Harderian Gland           |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                    | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                     | Hepatocyte   | Fatty Change          | Focal, Minimal      |
| * Lymph Node, Mesenteric    |              | Hyperplasia           | Lymphoid, Moderate  |
| Mesentery                   | Fat          | Mineral               | Mild                |
|                             | Fat          | Necrosis              | Mild                |
| [ Necrosis TGLs = 2-19 ]    |              |                       |                     |
| * Salivary Glands           |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Spleen                    |              | Hyperplasia           | Lymphoid, Mild      |
| * Thyroid Gland             |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder           |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                    | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ] |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 589

TRT#: 6

SEX: Female

DAY ON TEST: 606

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Ovary                   | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Salivary Glands         | * Skeletal Muscle           | * Skin                   |
| * Spinal Cord               | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                    | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                                       |               |                       |                              |
|---------------------------------------|---------------|-----------------------|------------------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia           | Mild                         |
| * Brain                               |               | Carcinoma             | Metastatic (Pituitary Gland) |
|                                       |               | Hemorrhage            | Mild                         |
|                                       |               | Mineral               | Minimal                      |
| * Clitoral GI                         |               |                       |                              |
| Note: One clitoral gland examined.    |               |                       |                              |
| * Kidney                              | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal          |
| * Parathyroid GI                      |               |                       |                              |
| Note: One parathyroid gland examined. |               |                       |                              |
| * Pituitary Gland                     | Pars Distalis | Carcinoma             |                              |
| [ Carcinoma TGLs = 1-4 ]              |               |                       |                              |
| * Uterus                              | Endometrium   | Dilation              | Mild                         |
|                                       |               | Hyperplasia           | Cystic, Mild                 |
| [ Dilation TGLs = 2-16 ]              |               |                       |                              |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

Animal Note: TGL 4 = NST

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 590

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Esophagus                 | * Eye                    | * Gallbladder               |
| * Harderian Gland           | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Mammary Gland             |
| * Nose                      | * Pancreas                  | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands           | * Skin                   | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                   |

MISSING

- |                  |                    |         |          |
|------------------|--------------------|---------|----------|
| * Clitoral Gland | * Nerve Trigeminal | * Ovary | * Thymus |
|------------------|--------------------|---------|----------|

OBSERVATIONS

- |                                                |             |                       |                       |
|------------------------------------------------|-------------|-----------------------|-----------------------|
| * Adrenal Cortex                               | Subcapsular | Hyperplasia           | Mild                  |
| * Brain                                        |             | Mineral               | Minimal               |
| * Kidney                                       |             | Nephropathy           | Chronicprogr, Minimal |
| * Liver                                        |             | Lymphoma Malignant    |                       |
| [ Lymphoma Malignant TGLs = 5-12, 6-12, 7-12 ] |             |                       |                       |
| * Lymph Node, Mesenteric                       |             | Hyperplasia           | Lymphoid, Mild        |
| Mesentery                                      | Fat         | Necrosis              | Minimal               |
| [ Necrosis TGLs = 2-19 ]                       |             |                       |                       |
| * Parathyroid Gland                            |             |                       |                       |
| Note: One parathyroid gland examined.          |             |                       |                       |
| * Skeletal Muscle                              |             | Infiltration Cellular | Lymphocyte, Minimal   |
| * Spleen                                       |             | Lymphoma Malignant    |                       |
| [ Lymphoma Malignant TGLs = 3-12 ]             |             |                       |                       |
| * Urinary Bladder                              |             | Infiltration Cellular | Lymphocyte, Mild      |
| * Uterus                                       |             | Dilation              | Marked                |
| [ Dilation TGLs = 1-16 ]                       |             |                       |                       |

Animal Note: TGLs 8 & 9 = NCL

Animal Note: TGL 4 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 591

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-591

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

\* Uterus

Endometrium

Infiltration Cellular

Dilation

Hyperplasia

Lymphocyte, Minimal

Mild

Cystic, Minimal

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

---

Animal Note: TGL 4 = NCL

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Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 592

TRT#: 6

SEX: Female

DAY ON TEST: 712

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                      |                             |
|--------------------------|-----------------------------|----------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone               | * Brain Trigeminal Ganglion |
| * Clitoral Gland         | * Esophagus                 | * Eye                | * Intestine Large, Cecum    |
| * Intestine Large, Colon | * Intestine Large, Rectum   | * Islets, Pancreatic | * Mammary Gland             |
| * Nerve Trigeminal       | * Peripheral Nerve, Sciatic | * Skeletal Muscle    | * Skin                      |
| * Thyroid Gland          |                             |                      |                             |

MISSING

- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- |                      |                             |                            |            |
|----------------------|-----------------------------|----------------------------|------------|
| * Gallbladder        | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Pancreas |
| * Stomach, Glandular |                             |                            |            |

INSUFFICIENT TISSUE

- \* Ovary

OBSERVATIONS

- |                                          |             |                    |      |
|------------------------------------------|-------------|--------------------|------|
| * Adrenal Cortex                         | Subcapsular | Hyperplasia        | Mild |
| * Adren Medulla                          |             |                    |      |
| Note: One adrenal medulla examined.      |             |                    |      |
| * Bone Marrow                            |             | Lymphoma Malignant |      |
| * Brain                                  |             | Lymphoma Malignant |      |
|                                          |             | Mineral            | Mild |
| * Harderian Gland                        |             | Lymphoma Malignant |      |
| * Heart                                  |             | Lymphoma Malignant |      |
| * Intestine Small, Ileum                 |             | Lymphoma Malignant |      |
| * Kidney                                 |             | Infarct            | Mild |
|                                          |             | Lymphoma Malignant |      |
| * Liver                                  |             | Lymphoma Malignant |      |
| * Lung                                   |             | Lymphoma Malignant |      |
| Lymph Node                               |             | Lymphoma Malignant |      |
| [ Lymphoma Malignant TGLs = 8-19, 7-10 ] |             |                    |      |
| * Lymph Node, Mandibular                 |             | Lymphoma Malignant |      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 592

TRT#: 6

SEX: Female

DAY ON TEST: 712

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-592

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant	TGLs = 10-9 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 6-15 ]		
* Nose		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma	TGLs = 5-4 ]		
* Salivary Glands		Lymphoma Malignant	
* Spinal Cord		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 1-12 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Focal, Mild
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 9-6 ]		
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Lymphoma Malignant	
[ Hyperplasia	TGLs = 4-16 ]		
[ Lymphoma Malignant	TGLs = 3-16 ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 595

TRT#: 6

SEX: Female

DAY ON TEST: 701

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Rectum
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- \* Trachea
- \* Bone Marrow
- \* Harderian Gland
- \* Islets, Pancreatic
- \* Ovary
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Colon
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Glandular

MISSING

- \* Gallbladder
- \* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
    - Hemorrhage Mild
    - Hyperplasia Mild
    - Hemorrhage Mild
- \* Adrenal Medulla
  - Mineral Mild
- \* Brain
  - Necrosis Moderate
- \* Eye
  - Cornea
    - Cardiomyopathy Minimal
- \* Heart
  - Renal Tubule
    - Mineral Mild
- \* Kidney
  - Hepatocellular Carcinoma
- \* Liver
  - [ Hepatocellular Carcinoma TGLs = 2-12, 3-19 ]
- \* Lung
  - Congestion Moderate
  - Hepatocellular Carcinoma Metastatic (Liver)
  - Infiltration Cellular Histiocyte, Moderate
- \* Lymph Node, Mandibular
  - [ Infiltration Cellular TGLs = 4-9 ]
- \* Pancreas
  - Acinus
    - Atrophy Moderate
    - Hepatocellular Carcinoma Metastatic (Liver)
    - Infiltration Cellular Histiocyte, Moderate
- \* Parathyroid G1

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 595

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-595

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: One parathyroid gland examined.

\* Spleen

Extramedullary Hematopoiesis

Moderate

\* Thymus

Atrophy

Mild

\* Uterus

Dilation

Marked

[ Dilation TGLs = 1-16 ]

---

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 596

TRT#: 6

SEX: Female

DAY ON TEST: 745

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal       |
| * Nose                      | * Parathyroid Gland       | * Pituitary Gland           | * Skeletal Muscle        |
| * Skin                      | * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular        | * Thymus                  | * Thyroid Gland             | * Trachea                |

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Mild                |
| * Kidney                              |              | Infarct               | Minimal             |
|                                       | Interstitial | Infiltration Cellular | Lymphocyte, Mild    |
| * Ovary                               |              | Cystadenoma           |                     |
| [ Cystadenoma TGLs = 2-16 ]           |              |                       |                     |
| * Pancreas                            |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Peripheral Nerve, Sciatic           | Axon         | Degeneration          | Marked              |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              |              | Dilation              | Moderate            |
|                                       | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Dilation TGLs = 1-16 ]              |              |                       |                     |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 599

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Salivary Glands
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Gallbladder
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
- \* Kidney
- \* Liver
- \* Lung
- \* Urinary Bladder
- \* Uterus
- Subcapsular
- Interstitial
- Alveolar Epith
- Endometrium
- Hyperplasia
- Infiltration Cellular
- Infiltration Cellular
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Mild
- Lymphocyte, Minimal
- Lymphocyte, Minimal
- Focal, Mild
- Lymphocyte, Mild
- Cystic, Mild

[ Hyperplasia TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 600

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nerve Trigeminal
- \* Skin
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Spinal Cord
- \* Trachea

MISSING

- \* Lymph Node, Mesenteric
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla
- Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Mild
- \* Kidney                                      Infarct                                      Mild
- Interstitialium
- \* Ovary                                      Follicle                                      Cyst                                      Lymphocyte, Mild
- [ Cyst    TGLs = 1-16 ]
- \* Pancreas                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Pituitary Gland                      Pars Distalis                      Hyperplasia                      Focal, Minimal
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Spleen                                      Hyperplasia                                      Lymphoid, Moderate
- \* Thyroid Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                      Hyperplasia                      Cystic, Moderate
- [ Hyperplasia    TGLs = 2-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 601

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nerve Trigeminal          | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Salivary Glands          |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord            | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                 | * Trachea                  |

OBSERVATIONS

- |                   |              |                              |                     |
|-------------------|--------------|------------------------------|---------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia                  | Mild                |
| * Brain           |              | Mineral                      | Minimal             |
| * Harderian Gland |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney          | Interstitial | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver           |              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Lung            |              | Alveolar/Bronchiolar Adenoma |                     |
| * Thyroid Gland   |              | Ultimobranchial Cyst         |                     |
| * Urinary Bladder |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Uterus          | Endometrium  | Hyperplasia                  | Cystic, Moderate    |
- [ Hyperplasia TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 603

TRT#: 6

SEX: Female

DAY ON TEST: 675

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Stomach, Forestomach

MISSING

- \* Lymph Node, Mandibular
- \* Thyroid Gland
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Clitoral Gland Duct Cyst
- Note: One clitoral gland examined.
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild
- \* Liver Hepatocellular Adenoma Infiltration Cellular Lymphocyte, Mild
- [ Hepatocellular Adenoma TGLs = 1-12 ] Vacuolization Cytoplasmic Minimal
- Mesentery Fat Necrosis Mild
- [ Necrosis TGLs = 2-19 ]
- \* Pancreas Infiltration Cellular Lymphocyte, Mild
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Mild
- \* Uterus Endometrium Hyperplasia Cystic, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 604

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland             |
| * Nose                      | * Ovary                     | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle           | * Skin                   | * Spinal Cord               |
| * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                    |
| * Thyroid Gland             | * Trachea                   |                          |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                    |                                              |                              |                     |
|------------------------------------|----------------------------------------------|------------------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular                                  | Hyperplasia                  | Mild                |
| * Brain                            |                                              | Mineral                      | Minimal             |
| * Clitoral GI                      |                                              |                              |                     |
| Note: One clitoral gland examined. |                                              |                              |                     |
| * Harderian Gland                  |                                              | Adenoma                      |                     |
|                                    |                                              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney                           | Interstitial                                 | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver                            | Hepatocyte                                   | Hyperplasia                  | Mild                |
| * Lung                             |                                              | Alveolar/Bronchiolar Adenoma |                     |
|                                    | [ Alveolar/Bronchiolar Adenoma TGLs = 4-10 ] |                              |                     |
| * Ovary                            |                                              |                              |                     |
| Note: One ovary examined.          |                                              |                              |                     |
| * Pancreas                         |                                              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Salivary Glands                  |                                              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Urinary Bladder                  |                                              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Uterus                           |                                              | Angiectasis                  | Moderate            |
|                                    |                                              | Dilation                     | Moderate            |
|                                    | Endometrium                                  | Hyperplasia                  | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 604

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-604

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Angiectasis TGLs = 2-19 ]

[ Dilation TGLs = 1-16 ]

[ Hyperplasia TGLs = 1-16 ]

---

Animal Note: TGL 3 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 605

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Salivary Glands        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

OBSERVATIONS

- |                                       |               |                           |                     |
|---------------------------------------|---------------|---------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia               | Mild                |
| * Brain                               |               | Mineral                   | Mild                |
| * Harderian Gland                     |               | Infiltration Cellular     | Lymphocyte, Minimal |
| * Kidney                              | Interstitial  | Infiltration Cellular     | Lymphocyte, Minimal |
| * Liver                               |               | Infiltration Cellular     | Lymphocyte, Minimal |
| * Ovary                               | Hepatocyte    | Vacuolization Cytoplasmic | Minimal             |
|                                       |               | Cyst                      |                     |
| [ Cyst TGLs = 1-16 ]                  |               |                           |                     |
| * Parathyroid GI                      |               |                           |                     |
| Note: One parathyroid gland examined. |               |                           |                     |
| * Pituitary Gland                     | Pars Distalis | Hyperplasia               | Focal, Mild         |
| * Urinary Bladder                     |               | Infiltration Cellular     | Lymphocyte, Minimal |
| * Uterus                              | Endometrium   | Hyperplasia               | Cystic, Moderate    |
| [ Hyperplasia TGLs = 2-16 ]           |               |                           |                     |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 607

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-607

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Polyp Stromal

[ Hyperplasia TGLs = 1-16 ]

[ Polyp Stromal TGLs = 1-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 608

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone                    | * Bone Marrow               |
| * Brain                  | * Brain Trigeminal Ganglion | * Esophagus               | * Eye                       |
| * Heart                  | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Islets, Pancreatic     | * Liver                     | * Lung                    | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland             | * Nerve Trigeminal        | * Nose                      |
| * Ovary                  | * Pancreas                  | * Parathyroid Gland       | * Peripheral Nerve, Sciatic |
| * Pituitary Gland        | * Spinal Cord               | * Stomach, Forestomach    | * Thymus                    |
| * Thyroid Gland          | * Trachea                   | * Urinary Bladder         | * Uterus                    |

MISSING

- \* Clitoral Gland

AUTO PRECLUDES DIAG.

- |                      |                          |                          |                            |
|----------------------|--------------------------|--------------------------|----------------------------|
| * Gallbladder        | * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Stomach, Glandular |                          |                          |                            |

OBSERVATIONS

- |                                       |              |                              |                     |
|---------------------------------------|--------------|------------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia                  | Mild                |
| * Harderian Gland                     |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney                              |              | Infarct                      | Minimal             |
|                                       | Interstitium | Infiltration Cellular        | Lymphocyte, Minimal |
| Mesentery                             | Fat          | Necrosis                     | Mild                |
| [ Necrosis TGLs = 1-20 ]              |              |                              |                     |
| * Ovary                               |              |                              |                     |
| Note: One ovary examined.             |              |                              |                     |
| * Parathyroid Gland                   |              |                              |                     |
| Note: One parathyroid gland examined. |              |                              |                     |
| * Salivary Glands                     |              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Skeletal Muscle                     |              | Histiocytic Sarcoma          |                     |
| * Skin                                |              | Histiocytic Sarcoma          |                     |
| [ Histiocytic Sarcoma TGLs = 3-19 ]   |              |                              |                     |
| * Spleen                              |              | Extramedullary Hematopoiesis | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 608

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 5 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-608

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Histiocytic Sarcoma

---

Animal Note: TGL 2 = NCL

---





Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 610

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-610

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Aorta	* Bone	* Bone Marrow	* Brain Trigeminal Ganglion
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nerve Trigeminal	* Nose	* Ovary
* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

* Adrenal Medulla	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Infarct	Minimal
	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
		Nephropathy	Chronicprogr, Minimal
* Ovary			
Note: One ovary examined.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Thyroid GI			
Note: One thyroid gland examined.			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Angiectasis	Marked
		Hemorrhage	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Angiectasis TGLs = 2-16 ]  
 [ Hyperplasia TGLs = 1-16 ]

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 611

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Gallbladder
- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
  - \* Adren Medulla  
    Note: One adrenal medulla examined.
  - \* Brain                                      Mineral                                      Mild
  - \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
  - \* Ovary                                      Cystadenoma
  - \* Parathyroid GI  
    Note: One parathyroid gland examined.
  - \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
  - \* Uterus                                      Endometrium                                      Hyperplasia                      Cystic, Moderate
- [ Hyperplasia    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 612

TRT#: 6

SEX: Female

DAY ON TEST: 743

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Mammary Gland             | * Nerve Trigeminal         |
| * Nose                      | * Ovary                     | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Skeletal Muscle           | * Skin                      | * Spinal Cord               | * Spleen                   |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thymus                    | * Trachea                  |

MISSING

- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Thyroid Gland

OBSERVATIONS

- |                               |                          |                       |                     |
|-------------------------------|--------------------------|-----------------------|---------------------|
| * Adrenal Cortex              | Subcapsular              | Hyperplasia           | Mild                |
| * Brain                       |                          | Mineral               | Minimal             |
| * Harderian Gland             |                          | Adenoma               |                     |
|                               |                          | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                      |                          | Infarct               | Minimal             |
|                               | Interstitialium          | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                       |                          | Basophilic Focus      |                     |
| * Lymph Node, Mandibular      |                          | Infiltration Cellular | Histiocyte, Mild    |
| * Lymph Node, Mesenteric      |                          | Infiltration Cellular | Histiocyte, Mild    |
| Mesentery                     | Fat                      | Necrosis              | Mild                |
|                               | [ Necrosis TGLs = 3-19 ] |                       |                     |
| * Ovary                       |                          |                       |                     |
| Note: One ovary examined.     |                          |                       |                     |
| * Pancreas                    |                          | Infiltration Cellular | Lymphocyte, Minimal |
| * Pituitary Gl                |                          |                       |                     |
| Note: Pars distalis examined. |                          |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 612

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-612

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Salivary Glands

\* Urinary Bladder

\* Uterus

Infiltration Cellular

Infiltration Cellular

Dilation

Hyperplasia

Lymphocyte, Mild

Lymphocyte, Minimal

Marked

Cystic, Mild

Endometrium

[ Dilation TGLs = 1-16 ]

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Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 613

TRT#: 6

SEX: Female

DAY ON TEST: 629

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-613

ORGAN AND ACCOUNTABLE SITE STATUS

\* Parathyroid Gland

Note: One parathyroid gland examined.

\* Spleen

Extramedullary Hematopoiesis

Marked

Histiocytic Sarcoma

Inflammation

Chronic Active, Moderate

Capsule

[ Extramedullary Hematopoiesis TGLs = 3-12 ]

[ Inflammation TGLs = 4-12 ]

\* Thymus

Atrophy

Mild

\* Urinary Bladder

Inflammation

Acute, Mild

\* Uterus

Endometrium

Hemangiosarcoma

Hyperplasia

Cystic, Mild

[ Hemangiosarcoma TGLs = 1-16 ]

[ Hyperplasia TGLs = 2-16 ]

PRIMARY CAUSE OF DEATH

- Heart Myocardium Inflammation



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 615

TRT#: 6

SEX: Female

DAY ON TEST: 746

DOSE: 5 W/kg

DISP: Natural Death

HISTO: 12-5117-615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Skin
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spinal Cord
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Adenocarcinoma
- Infiltration Cellular
- \* Kidney                                      Interstitium                      Infiltration Cellular                      Lymphocyte, Minimal
- Nephropathy                      Chronicprogr, Minimal
- Pigment                                      Mild
- Lymph Node
- \* Parathyroid GI                      Iliac
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic              Axon                                      Degeneration                      Minimal
- \* Pituitary GI
- Note: Pars distalis examined.
- \* Spleen                                      Hyperplasia                                      Lymphoid, Mild
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                      Dilatation                                      Mild

[ Dilatation TGLs = 1-16, 2-16 ]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3 = NST; TGL 4 = NCL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78  
 Test Type: CHRONIC  
 Route: Whole Body Exposure  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Cell Phone Radiation: GSM  
 CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
 Time Report Requested: 13:43:11  
 First Dose M/F: 06/18/12 / 06/18/12  
 Lab: IIT

ANIMAL ID: 616

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-616

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nerve Trigeminal	* Nose	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Infarct	Mild
	Interstitium	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Infiltration Cellular	Lymphocyte, Minimal
	[ Hepatocellular Adenoma TGLs = 4-12 ]		
	Lymph Node		
	Iliac	Hyperplasia	Lymphoid, Mild
	Iliac	Infiltration Cellular	Mixed Cell, Mild
	[ Hyperplasia TGLs = 3-19 ]		
	[ Infiltration Cellular TGLs = 3-19 ]		
* Ovary		Angiectasis	Marked
		Thrombus	Moderate
	[ Angiectasis TGLs = 2-16 ]		
	[ Thrombus TGLs = 2-16 ]		
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Parathyroid G1			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 616

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-616

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ORGAN AND ACCOUNTABLE SITE STATUS

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Note: One parathyroid gland examined.

\* Salivary Glands

\* Thymus

[ Hyperplasia TGLs = 5-6 ]

\* Thyroid Gland

Note: One thyroid gland examined.

\* Urinary Bladder

\* Uterus

[ Dilation TGLs = 1-16 ]

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Lymphoid, Marked

Infiltration Cellular

Dilation

Hyperplasia

Lymphocyte, Mild

Moderate

Cystic, Mild

Endometrium

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 618

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | Blood Vessel               | * Bone                      |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                | * Eye                       |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| Lacrimal Gland              | Larynx                   | * Lymph Node, Mandibular   | * Mammary Gland             |
| * Nose                      | Oral Mucosa              | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle        | * Skin                     | * Spinal Cord               |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                   |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                    |                                                 |                                    |                     |
|------------------------------------|-------------------------------------------------|------------------------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular                                     | Histiocytic Sarcoma<br>Hyperplasia | Mild                |
| * Bone Marrow                      |                                                 | Histiocytic Sarcoma                |                     |
| * Brain                            |                                                 | Mineral                            | Minimal             |
| * Clitoral GI                      |                                                 |                                    |                     |
| Note: One clitoral gland examined. |                                                 |                                    |                     |
| * Gallbladder                      |                                                 | Histiocytic Sarcoma                |                     |
| * Harderian Gland                  |                                                 | Infiltration Cellular              | Lymphocyte, Minimal |
| * Kidney                           |                                                 | Histiocytic Sarcoma                |                     |
|                                    | [ Histiocytic Sarcoma TGLs = 4-13 ]             |                                    |                     |
| * Liver                            |                                                 | Histiocytic Sarcoma                |                     |
|                                    | [ Histiocytic Sarcoma TGLs = 5-12, 6-12, 7-12 ] |                                    |                     |
| * Lung                             |                                                 | Histiocytic Sarcoma                |                     |
| Lymph Node                         |                                                 | Hemorrhage                         | Mild                |
|                                    | [ Hemorrhage TGLs = 2-19, 9-20 ]                |                                    |                     |
|                                    | [ Histiocytic Sarcoma TGLs = 2-19, 8-20 ]       |                                    |                     |
| * Lymph Node, Mesenteric           |                                                 | Histiocytic Sarcoma                |                     |
| Mesentery                          |                                                 | Histiocytic Sarcoma                |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 618

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 5 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-618

ORGAN AND ACCOUNTABLE SITE STATUS

[ Histiocytic Sarcoma TGLs = 1-15 ]		
* Ovary	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLs = 12-16 ]		
* Pancreas	Histiocytic Sarcoma	
* Parathyroid GI		
Note: One parathyroid examined.		
* Salivary Glands	Infiltration Cellular	Lymphocyte, Mild
* Spleen	Extramedullary Hematopoiesis	Moderate
	Histiocytic Sarcoma	
[ Extramedullary Hematopoiesis TGLs = 11-12 ]		
[ Histiocytic Sarcoma TGLs = 11-12 ]		
* Thymus	Histiocytic Sarcoma	
* Urinary Bladder	Histiocytic Sarcoma	
* Uterus	Dilation	Mild
	Histiocytic Sarcoma	
[ Dilation TGLs = 10-16 ]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

Animal Note: TGL 3 = NST



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 619

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 668

**DOSE:** 5 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-619

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 1 = NCL

Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 621

TRT#: 6

SEX: Female

DAY ON TEST: 751

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pancreas
- \* Skin
- \* Thymus

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland

OBSERVATIONS

- |                             |             |                       |                       |
|-----------------------------|-------------|-----------------------|-----------------------|
| * Adrenal Cortex            | Subcapsular | Hyperplasia           | Mild                  |
| * Bone                      |             | Fibro-Osseous Lesion  | Mild                  |
| * Brain                     |             | Mineral               | Minimal               |
| * Harderian Gland           |             | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                    |             | Nephropathy           | Chronicprogr, Minimal |
| Lymph Node                  | Iliac       | Hyperplasia           | Lymphoid, Mild        |
| [ Hyperplasia TGLs = 4-19 ] |             |                       |                       |
| * Salivary Glands           |             | Infiltration Cellular | Lymphocyte, Minimal   |
| * Stomach, Glandular        |             | Cyst                  |                       |
| * Urinary Bladder           |             | Infiltration Cellular | Lymphocyte, Minimal   |
| * Uterus                    | Endometrium | Hyperplasia           | Cystic, Moderate      |
| [ Hyperplasia TGLs = 2-16 ] |             |                       |                       |

Animal Note: TGLs 1 & 3 = NCL

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 623

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-623

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLs = 3-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 624

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-624

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid GI

Note: One thyroid gland examined.

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 625

TRT#: 6

SEX: Female

DAY ON TEST: 750

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            |
| * Nose                      | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Salivary Glands        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                          |                 |                                              |                     |
|--------------------------|-----------------|----------------------------------------------|---------------------|
| * Adrenal Cortex         | Subcapsular     | Hyperplasia                                  | Mild                |
| * Brain                  |                 | Mineral                                      | Minimal             |
| * Harderian Gland        |                 | Infiltration Cellular                        | Lymphocyte, Minimal |
| * Kidney                 | Interstitialium | Infiltration Cellular                        | Lymphocyte, Minimal |
| * Liver                  | Bile Duct       | Cyst                                         |                     |
|                          |                 | Hepatocellular Adenoma                       | Multiple            |
|                          |                 | Hepatocellular Carcinoma                     |                     |
|                          |                 | [ Cyst TGLs = 6-21 ]                         |                     |
|                          |                 | [ Hepatocellular Adenoma TGLs = 4-12, 5-20 ] |                     |
|                          |                 | [ Hepatocellular Carcinoma TGLs = 3-12 ]     |                     |
| * Lymph Node, Mesenteric |                 | Hyperplasia                                  | Lymphoid, Mild      |
|                          |                 | [ Hyperplasia TGLs = 7-15 ]                  |                     |
| Mesentery                | Fat             | Necrosis                                     | Moderate            |
|                          |                 | [ Necrosis TGLs = 8-22 ]                     |                     |
| * Parathyroid GI         |                 |                                              |                     |
|                          |                 | Note: One parathyroid gland examined.        |                     |
| * Urinary Bladder        |                 | Infiltration Cellular                        | Lymphocyte, Minimal |
| * Uterus                 | Endometrium     | Hyperplasia                                  | Cystic, Moderate    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 625

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-625

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2-19, 1-16 ]

---







**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 627

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 5 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-627

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One thyroid gland examined.

\* Urinary Bladder

\* Uterus

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Minimal

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 628

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 5 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-628

ORGAN AND ACCOUNTABLE SITE STATUS

Note: One parathyroid gland examined.

\* Salivary Glands

Histiocytic Sarcoma

Infiltration Cellular

Lymphocyte, Mild

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

\* Uterus

Dilation

Moderate

Endometrium

Hyperplasia

Cystic, Moderate

Polyp Stromal

[ Dilation TGLs = 1-16, 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

[ Polyp Stromal TGLs = 2-16 ]

Animal Note: TGL 6 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 738

TRT#: 8

SEX: Female

DAY ON TEST: 750

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Skeletal Muscle
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Spinal Cord
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Stomach, Glandular

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Minimal
- Necrosis                                      Minimal
- \* Harderian Gland                                      Infiltration Cellular                      Lymphocyte, Minimal
- Inflammation                                      Chronic Active, Mild
- \* Heart                                              Myocardium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                                              Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Ovary                                                              Hyperplasia                                      Tubulostromal, Mild
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Pituitary Gland                      Pars Distalis                      Cyst
- \* Salivary Glands                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Skin                                              Hair Follicle                      Atrophy                      Moderate
- [ Atrophy    TGLs = 1-19 ]
- \* Spleen                                                              Hyperplasia                                      Lymphoid, Mild
- [ Hyperplasia    TGLs = 2-12 ]
- \* Thyroid Gland                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                      Angiectasis                                      Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 738

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-738

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Infiltration Cellular  
Hyperplasia

Lymphocyte, Minimal  
Cystic, Minimal

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 739

TRT#: 8

SEX: Female

DAY ON TEST: 752

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Spleen
- \* Trachea

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Metaplasia                                      Osseous
- \* Liver                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Ovary                                      Granulosa Cell Tumor Benign
- [ Granulosa Cell Tumor Benign    TGLs = 2-16 ]
- \* Pancreas                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Thyroid Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                                      Hyperplasia                                      Cystic, Moderate
- [ Hyperplasia    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 740

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Harderian GI  
    Note: One Harderian Gland examined.
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                              Hepatocellular Adenoma                                              Infiltration Cellular                      Lymphocyte, Mild
- [ Hepatocellular Adenoma    TGLs = 3-12 ]
- Mesentery                                              Fat                                              Necrosis                                              Mild
- [ Necrosis    TGLs = 2-19, 4-20 ]
- \* Pancreas                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Mild
- \* Urinary Bladder                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Uterus                                              Endometrium                                              Hyperplasia                                              Cystic, Mild
- [ Hyperplasia    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

ANIMAL ID: 742

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-742

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Angiectasis

Moderate

Hyperplasia

Cystic, Mild

[ Angiectasis TGLs = 2-16 ]

---

PRIMARY CAUSE OF DEATH

- Skin Histiocytic Sarcoma

---

Animal Note: TGL 5 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 743

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone                    | * Bone Marrow               |
| * Brain                  | * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 |
| * Eye                    | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Pancreas                  | * Parathyroid Gland       | * Peripheral Nerve, Sciatic |
| * Pituitary Gland        | * Salivary Glands           | * Skeletal Muscle         | * Skin                      |
| * Spinal Cord            | * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Thyroid Gland             | * Trachea                 |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                   |                                 |                       |                       |
|-------------------|---------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex  | Subcapsular                     | Hyperplasia           | Mild                  |
| * Kidney          |                                 | Nephropathy           | Chronicprogr, Minimal |
| * Ovary           |                                 | Teratoma Benign       |                       |
|                   | [ Teratoma Benign TGLs = 1-16 ] |                       |                       |
| * Urinary Bladder |                                 | Infiltration Cellular | Lymphocyte, Minimal   |
| * Uterus          | Endometrium                     | Hyperplasia           | Cystic, Moderate      |
|                   | [ Hyperplasia TGLs = 2-16 ]     |                       |                       |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 744

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 752

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-744

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 747

TRT#: 8

SEX: Female

DAY ON TEST: 750

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Mild
- \* Harderian Gland                                              Adenoma
- [ Adenoma    TGLs = 5-19 ]
- \* Kidney                                              Interstitium                                              Infiltration Cellular                      Lymphocyte, Mild
- Lymph Node                                              Bronchial                                              Hyperplasia                                              Lymphoid, Minimal
- [ Hyperplasia    TGLs = 4-21 ]
- Mesentery                                              Fat                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 3-20 ]
- \* Ovary                                              Paraovarian                                              Cyst
- [ Cyst    TGLs = 1-16 ]
- \* Pituitary Gl
- Note: Pars distalis examined.
- \* Salivary Glands                                              Infiltration Cellular                      Lymphocyte, Minimal
- \* Skeletal Muscle                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Urinary Bladder                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                              Endometrium                                              Hyperplasia                                              Cystic, Mild
- [ Hyperplasia    TGLs = 2-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 748

TRT#: 8

SEX: Female

DAY ON TEST: 750

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                           |                             |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                     | * Bone                    | * Bone Marrow               |
| * Brain                  | * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 |
| * Eye                    | * Gallbladder               | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Ovary                     | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skeletal Muscle           | * Skin                    | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                   |                           |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Kidney                              |              | Infarct               | Mild                |
| * Pancreas                            | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| [ Cyst TGLs = 3-19 ]                  | Duct         | Cyst                  |                     |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Peripheral Nerve, Sciatic           | Axon         | Degeneration          | Minimal             |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 2-16 ]           |              |                       |                     |

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 743

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mesenteric
- \* Ovary

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Aorta                                      Degeneration                      Marked
- \* Brain                                      Mineral                              Minimal
- \* Harderian Gland                      Infiltration Cellular              Lymphocyte, Minimal
- \* Kidney                                      Infarct                              Minimal
- Interstitium                      Infiltration Cellular              Lymphocyte, Minimal
- Papilla                              Mineral                              Minimal
- Nephropathy                      Chronicprogr, Minimal
- \* Liver                                      Basophilic Focus
- Necrosis                              Mild
- Necrosis                              Moderate
- Mesentery                              Fat
- [ Necrosis    TGLs = 3-19 ]
- \* Parathyroid Gland
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic              Axon                              Degeneration                      Mild
- \* Skeletal Muscle                      Osteosarcoma
- [ Osteosarcoma    TGLs = 4-20 ]
- \* Urinary Bladder                      Infiltration Cellular              Lymphocyte, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 749

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 743

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-749

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Dilation

Mild

[ Dilation TGLs = 2-16 ]

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Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 750

TRT#: 8

SEX: Female

DAY ON TEST: 561

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nerve Trigeminal	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

\* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum      \* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Clitoral Gland			
Note: One clitoral gland examined.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 1-20, 2-19 ]			
* Parathyroid Gland			
Note: One parathyroid gland examined.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Thymus		Hemorrhage	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 751

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Brain Trigeminal Ganglion
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nerve Trigeminal	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Salivary Glands	* Skin	* Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hypercellularity	
* Brain		Mineral	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart	Artery	Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Chronicprogr, Mild
	[ Nephropathy TGLs = 2-13 ]		
* Liver		Infiltration Cellular	Lymphocyte, Mild
* Ovary			
	Note: One ovary examined.		
* Pituitary Gland			
	Note: Pars distalis examined.		
* Skeletal Muscle		Inflammation	Chronic Active, Mild
* Spleen		Extramedullary Hematopoiesis	Mild
	[ Extramedullary Hematopoiesis TGLs = 4-12 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 751

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 686

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-751

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Adenocarcinoma

[ Adenocarcinoma TGLs = 1-16 ]

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**PRIMARY CAUSE OF DEATH**

- Uterus Adenocarcinoma

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Animal Note: TGL 3 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 752

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                           |                             |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                    | * Bone                    | * Bone Marrow               |
| * Clitoral Gland            | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                      | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Skeletal Muscle         | * Skin                      |
| * Spinal Cord               | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                    | * Thyroid Gland            | * Trachea                 |                             |

MISSING

- |                             |               |                    |
|-----------------------------|---------------|--------------------|
| * Brain Trigeminal Ganglion | * Gallbladder | * Nerve Trigeminal |
|-----------------------------|---------------|--------------------|

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Minimal             |
| * Clitoral GI                         |              |                       |                     |
| Note: One clitoral gland examined.    |              |                       |                     |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
| Mesentery                             | Fat          | Necrosis              | Mild                |
| [ Necrosis TGLs = 2-19 ]              |              |                       |                     |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 753

TRT#: 8

SEX: Female

DAY ON TEST: 743

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve, Sciatic | * Pituitary Gland           | * Skeletal Muscle        | * Skin                     |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Mild                |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              |              | Infarct               | Mild                |
|                                       | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
| * Liver                               |              | Infiltration Cellular | Lymphocyte, Minimal |
| Mesentery                             | Fat          | Necrosis              | Mild                |
| [ Necrosis TGLs = 2-19 ]              |              |                       |                     |
| * Ovary                               |              | Cystadenoma           |                     |
| * Parathyroid GI                      |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Marked      |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                     |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 754

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 664

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-754

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilation TGLs = 5-16 ]

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**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

---

Animal Note: TGL 1 = NST; TGLs 3, 6, 7, 10, 13, 14, 15, & 16 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 756

TRT#: 8

SEX: Female

DAY ON TEST: 676

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Spleen
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Mammary Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla  
    Note: One adrenal medulla examined.
- \* Brain                                      Carcinoma                      Metastatic (Pituitary Gland)  
    Mineral                                      Mild
- [ Carcinoma    TGLs = 6-1 ]
- \* Kidney                                      Nephropathy                      Chronicprogr, Mild
- [ Nephropathy    TGLs = 3-13 ]
- \* Liver                                      Centrilobular, Hepatocyte                      Hypertrophy                      Moderate
- \* Nerve Trigeminal                      Carcinoma                      Metastatic (Pituitary Gland)
- \* Parathyroid GI  
    Note: One parathyroid gland examined.
- \* Pituitary Gland                      Pars Distalis                      Carcinoma
- [ Carcinoma    TGLs = 4-4 ]
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                      Endometrium                      Hyperplasia                      Cystic, Mild

PRIMARY CAUSE OF DEATH                      - Pituitary Gland Pars Distalis Carcinoma

Animal Note: TGLs 1, 2, & 5 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 757

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spinal Cord
- \* Thymus
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Pituitary Gland

OBSERVATIONS

- \* Adrenal Cortex      Subcapsular      Hyperplasia      Mild
- \* Bone           Fibro-Osseous Lesion      Moderate
- \* Brain           Mineral      Mild
- \* Harderian Gland           Infiltration Cellular      Lymphocyte, Mild
- \* Kidney      Interstitium      Infiltration Cellular      Lymphocyte, Mild
- \* Liver           Infiltration Cellular      Lymphocyte, Mild
- \* Salivary Glands           Infiltration Cellular      Lymphocyte, Minimal
- \* Uterus      Endometrium      Hyperplasia      Cystic, Moderate

[ Hyperplasia TGLs = 1-16 ]

Animal Note: TGL 2 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 758

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-758

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

[ Hyperplasia TGLs = 1-16 ]

Endometrium

Infiltration Cellular

Hyperplasia

Lymphocyte, Mild

Cystic, Mild

---

Animal Note: TGL 2 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 759

TRT#: 8

SEX: Female

DAY ON TEST: 746

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nerve Trigeminal
- \* Skin
- \* Thyroid Gland
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Spinal Cord
- \* Trachea
- \* Bone
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Harderian Gland</li> <li>* Kidney</li> <li>* Liver</li> <li>Lymph Node<br/>    [ Hyperplasia TGLs = 3-19 ]</li> <li>* Lymph Node, Mandibular<br/>    [ Hyperplasia TGLs = 1-9 ]</li> <li>* Lymph Node, Mesenteric</li> <li>* Ovary<br/>    Note: One ovary examined.</li> <li>* Pancreas</li> <li>* Salivary Glands</li> <li>* Skeletal Muscle</li> <li>* Spleen</li> <li>* Thymus</li> <li>* Urinary Bladder</li> <li>* Uterus<br/>    [ Hyperplasia TGLs = 2-16 ]</li> </ul> | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>Interstitial</li> <li>Bronchial</li> <li>Endometrium</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> <li>Hyperplasia</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> <li>Hyperplasia</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Mild</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Mild</li> <li>Lymphoid, Moderate</li> <li>Lymphoid, Marked</li> <li>Lymphoid, Moderate</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Mild</li> <li>Lymphoid, Mild</li> <li>Lymphoid, Marked</li> <li>Lymphocyte, Moderate</li> <li>Cystic, Moderate</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 761

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Gallbladder
- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Brain Mineral Minimal
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Heart Myocardium Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Interstitium Infiltration Cellular Lymphocyte, Mild
- \* Liver Infiltration Cellular Lymphocyte, Minimal
- \* Lymph Node, Mandibular Hyperplasia Lymphoid, Mild
- Mesentery Fat Necrosis Moderate  
[ Necrosis TGLs = 1-19 ]
- \* Parathyroid GI Note: One parathyroid gland examined.
- \* Pituitary Gland Pars Distalis Hyperplasia Focal, Moderate
- \* Salivary Glands Infiltration Cellular Lymphocyte, Mild
- \* Skeletal Muscle Infiltration Cellular Lymphocyte, Minimal
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Mild
- \* Uterus Angiectasis Moderate  
Dilation Moderate  
Endometrium Hyperplasia Cystic, Moderate  
[ Angiectasis TGLs = 3-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 761

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-761

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilation TGLs = 2-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 763

TRT#: 8

SEX: Female

DAY ON TEST: 746

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric    | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Ovary                     | * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland             | * Trachea                  |

OBSERVATIONS

- |                                       |               |                       |                     |
|---------------------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia           | Minimal             |
| * Brain                               |               | Mineral               | Minimal             |
| * Clitoral GI                         |               |                       |                     |
| Note: One clitoral gland examined.    |               |                       |                     |
| * Harderian Gland                     |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitial  | Infiltration Cellular | Lymphocyte, Mild    |
| Mesentery                             | Fat           | Necrosis              | Mild                |
| [ Necrosis TGLs = 2-19 ]              |               |                       |                     |
| * Pancreas                            |               | Necrosis              | Moderate            |
| * Parathyroid GI                      |               |                       |                     |
| Note: One parathyroid gland examined. |               |                       |                     |
| * Pituitary Gland                     | Pars Distalis | Angiectasis           | Minimal             |
| * Salivary Glands                     |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                     |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium   | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |               |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 764

TRT#: 8

SEX: Female

DAY ON TEST: 607

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Thymus
- \* Aorta
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Lymph Node, Mandibular
- \* Ovary

INSUFFICIENT TISSUE

- \* Mammary Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow                                                                Hypercellularity                      Mild
- \* Brain                                                                Mineral                      Minimal
- Mesentery                      Fat                      Necrosis                      Mild
- [ Necrosis    TGLs = 3-19 ]
- \* Parathyroid Gland
- Note: One parathyroid examined.
- \* Skin                      Subcut Tiss                      Sarcoma
- [ Sarcoma    TGLs = 4-20 ]
- \* Spleen                                                                Extramedullary Hematopoiesis                      Moderate
- [ Extramedullary Hematopoiesis    TGLs = 1-12 ]
- \* Urinary Bladder                                                                Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                                                                Dilatation                      Mild
- [ Dilatation    TGLs = 2-16 ]

PRIMARY CAUSE OF DEATH                      - Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 764

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 607

**DOSE:** 10 W/kg

**DISP:** Moribund Sacrifice

**HISTO:** 12-5117-764

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 5 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 765

TRT#: 8

SEX: Female

DAY ON TEST: 752

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Salivary Glands
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla  
    Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                      Renal Tubule                      Dilation                      Mild
- Interstitium                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                      Chronicprogr, Minimal
- \* Liver                                      Infiltration Cellular                      Lymphocyte, Minimal
- Lymph Node                      Bronchial                      Hyperplasia                      Lymphoid, Mild
- [ Hyperplasia    TGLs = 3-19 ]
- \* Pancreas                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Pituitary Gland                      Pars Distalis                      Hyperplasia                      Focal, Mild
- Note: Pars distalis examined.
- [ Hyperplasia    TGLs = 2-4 ]
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                      Hyperplasia                      Cystic, Mild
- [ Hyperplasia    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 766

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                             |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla           | * Aorta                     | * Bone                      |
| * Bone Marrow              | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland             | * Nose                      |
| * Ovary                    | * Pancreas                  | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland          | * Salivary Glands           | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord              | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular        |
| * Thymus                   | * Thyroid Gland             | * Trachea                   |                             |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |              |                       |                  |
|---------------------------------------|--------------|-----------------------|------------------|
| * Brain                               |              | Mineral               | Mild             |
| * Harderian Gland                     |              | Adenoma               |                  |
| [ Adenoma TGLs = 2-5 ]                |              |                       |                  |
| * Kidney                              | Interstitial | Infiltration Cellular | Lymphocyte, Mild |
| * Parathyroid Gland                   |              |                       |                  |
| Note: One parathyroid gland examined. |              |                       |                  |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Mild     |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                  |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 768

TRT#: 8

SEX: Female

DAY ON TEST: 750

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                             |
|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| * Aorta                     | * Bone                      | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                 | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lung                      | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    |
| * Mammary Gland             | * Nose                      | * Ovary                    | * Pancreas                  |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Salivary Glands           |
| * Skeletal Muscle           | * Spinal Cord               | * Spleen                   | * Stomach, Forestomach      |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            | * Trachea                   |

MISSING

- \* Nerve Trigeminal

INSUFFICIENT TISSUE

- \* Adrenal Medulla

OBSERVATIONS

- |                                   |                             |                       |                     |
|-----------------------------------|-----------------------------|-----------------------|---------------------|
| * Adrenal Cortex                  | Subcapsular                 | Hyperplasia           | Mild                |
| * Brain                           |                             | Mineral               | Minimal             |
| * Clitoral GI                     |                             |                       |                     |
| Note: One clitoral land examined. |                             |                       |                     |
| * Harderian Gland                 |                             | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                          |                             | Infarct               | Minimal             |
| * Skin                            | Hair Follicle               | Atrophy               | Moderate            |
|                                   | [ Atrophy TGLs = 1-9 ]      |                       |                     |
| * Urinary Bladder                 |                             | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                          | Endometrium                 | Hyperplasia           | Cystic, Moderate    |
|                                   | [ Hyperplasia TGLs = 2-16 ] |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 769

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                | * Eye                     |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mesenteric    | * Nerve Trigeminal          | * Nose                     | * Ovary                   |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Skeletal Muscle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular        | * Thyroid Gland            | * Trachea                 |

MISSING

- \* Gallbladder

OBSERVATIONS

- |                          |                                       |                        |                      |
|--------------------------|---------------------------------------|------------------------|----------------------|
| * Adrenal Cortex         | Subcapsular                           | Hyperplasia            | Mild                 |
| * Brain                  |                                       | Mineral                | Mild                 |
| * Harderian Gland        |                                       | Adenoma                |                      |
|                          |                                       | Infiltration Cellular  | Lymphocyte, Minimal  |
|                          | [ Adenoma TGLs = 2-5 ]                |                        |                      |
| * Islets, Pancreatic     |                                       | Infiltration Cellular  | Lymphocyte, Mild     |
| * Kidney                 | Interstitium                          | Infiltration Cellular  | Lymphocyte, Moderate |
| * Liver                  |                                       | Hepatocellular Adenoma |                      |
|                          |                                       | Infiltration Cellular  | Lymphocyte, Mild     |
| * Lymph Node, Mandibular |                                       | Hyperplasia            | Lymphoid, Mild       |
| * Mammary Gland          |                                       | Hyperplasia            | Diffuse, Mild        |
| * Pancreas               |                                       | Infiltration Cellular  | Lymphocyte, Mild     |
| * Parathyroid GI         |                                       |                        |                      |
|                          | Note: One parathyroid gland examined. |                        |                      |
| * Pituitary Gland        | Pars Distalis                         | Adenoma                |                      |
|                          | [ Adenoma TGLs = 3-4 ]                |                        |                      |
| * Salivary Glands        |                                       | Infiltration Cellular  | Lymphocyte, Mild     |
| * Spinal Cord            | Artery, Meninges                      | Inflammation           | Chronic Active, Mild |
| * Spleen                 |                                       | Hyperplasia            | Lymphoid, Moderate   |
| * Thymus                 |                                       | Cyst                   |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 769

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-769

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Infiltration Cellular

Lymphocyte, Moderate

\* Uterus

Dilation

Moderate

[ Dilation TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 770

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                             |
|-----------------------------|--------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                | * Eye                       |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                   | * Parathyroid Gland        | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle        | * Skin                     | * Spinal Cord               |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                |                            |                             |

OBSERVATIONS

- |                                       |                |                       |                        |
|---------------------------------------|----------------|-----------------------|------------------------|
| * Adrenal Cortex                      | Subcapsular    | Hyperplasia           | Mild                   |
| * Brain                               |                | Mineral               | Minimal                |
| * Gallbladder                         |                | Infiltration Cellular | Lymphocyte, Minimal    |
| * Harderian Gland                     |                | Infiltration Cellular | Lymphocyte, Minimal    |
| * Kidney                              | Interstitium   | Infiltration Cellular | Lymphocyte, Minimal    |
| * Lung                                | Alveolar Epith | Hyperplasia           | Focal, Mild            |
| * Ovary                               |                | Angiectasis           | Mild                   |
| [ Angiectasis TGLs = 1-16 ]           |                |                       |                        |
| * Pancreas                            | Acinus         | Atrophy               | Marked                 |
|                                       | Duct           | Cyst                  |                        |
|                                       |                | Infiltration Cellular | Lipocyte, Marked       |
|                                       | Duct           | Inflammation          | Chronic Active, Marked |
| [ Cyst TGLs = 3-6 ]                   |                |                       |                        |
| [ Inflammation TGLs = 3-6 ]           |                |                       |                        |
| * Parathyroid Gland                   |                |                       |                        |
| Note: One parathyroid gland examined. |                |                       |                        |
| * Salivary Glands                     |                | Infiltration Cellular | Lymphocyte, Mild       |
| * Urinary Bladder                     |                | Infiltration Cellular | Lymphocyte, Mild       |
| * Uterus                              | Endometrium    | Hyperplasia           | Cystic, Mild           |
| [ Hyperplasia TGLs = 2-16 ]           |                |                       |                        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

ANIMAL ID: 771

TRT#: 8

SEX: Female

DAY ON TEST: 700

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-771

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Extramedullary Hematopoiesis

Moderate

[ Extramedullary Hematopoiesis TGLs = 3-12 ]

---

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

---

Animal Note: TGLs 1 & 6 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 772

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-772

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Skeletal Muscle		Infiltration Cellular	Lymphocyte, Minimal
* Skin	Epidermis	Hyperplasia	Multifocal, Moderate
		Ulcer	Moderate
	[ Hyperplasia TGLs = 3-22 ]		
	[ Ulcer TGLs = 1-20, 2-21, 3-22, 4-23, 5-24 ]		
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 8-12 ]		
* Thymus		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 14-6 ]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Angiectasis	Moderate
		Dilation	Moderate
	[ Angiectasis TGLs = 7-16 ]		
	[ Dilation TGLs = 6-16 ]		

Animal Note: TGL 13 = NCL



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 773

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-773

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLs = 2-16 ]

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 775

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Aorta                    | * Bone                    | * Bone Marrow               |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nerve Trigeminal       | * Nose                     | * Ovary                   | * Peripheral Nerve, Sciatic |
| * Pituitary Gland        | * Skeletal Muscle          | * Spinal Cord             | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |

MISSING

- |               |                     |
|---------------|---------------------|
| * Gallbladder | * Parathyroid Gland |
|---------------|---------------------|

INSUFFICIENT TISSUE

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                   |                             |                       |                     |
|-------------------|-----------------------------|-----------------------|---------------------|
| * Adrenal Cortex  | Subcapsular                 | Hyperplasia           | Mild                |
| * Brain           |                             | Mineral               | Minimal             |
| * Harderian Gland |                             | Infiltration Cellular | Lymphocyte, Mild    |
| * Kidney          | Interstitium                | Infiltration Cellular | Lymphocyte, Minimal |
| * Pancreas        |                             | Infiltration Cellular | Lymphocyte, Minimal |
| * Salivary Glands |                             | Infiltration Cellular | Lymphocyte, Mild    |
| * Skin            | Hair Follicle               | Atrophy               | Moderate            |
|                   | [ Atrophy TGLs = 1-9 ]      |                       |                     |
| * Spleen          |                             | Hyperplasia           | Lymphoid, Mild      |
| * Urinary Bladder |                             | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus          | Endometrium                 | Hyperplasia           | Cystic, Minimal     |
|                   | [ Hyperplasia TGLs = 2-16 ] |                       |                     |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 777

TRT#: 8

SEX: Female

DAY ON TEST: 534

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Aorta	* Bone	* Bone Marrow
* Brain Trigeminal Ganglion	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Nerve Trigeminal	* Thymus
--------------------------	-----------------	--------------------	----------

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Mild
* Harderian Gland			
Note: One harderian gland examined.			
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Parathyroid Gland			
Note: One parathyroid gland examined.			
* Pituitary Gland			
Note: Pars distalis examined.			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1 & 2 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78  
Test Type: CHRONIC  
Route: Whole Body Exposure  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Cell Phone Radiation: GSM  
CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017  
Time Report Requested: 13:43:11  
First Dose M/F: 06/18/12 / 06/18/12  
Lab: IIT

ANIMAL ID: 778

TRT#: 8

SEX: Female

DAY ON TEST: 590

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Aorta	* Bone	* Esophagus	* Eye
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nerve Trigeminal	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Trachea	

MISSING

* Brain Trigeminal Ganglion	* Clitoral Gland
-----------------------------	------------------

OBSERVATIONS

* Adrenal Cortex	Lymphoma Malignant
* Adrenal Medulla	Lymphoma Malignant
* Bone Marrow	Lymphoma Malignant
* Brain	Lymphoma Malignant
* Gallbladder	Lymphoma Malignant
* Harderian Gland	Lymphoma Malignant
* Heart	Lymphoma Malignant
* Intestine Large, Cecum	Lymphoma Malignant
* Kidney	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 5-13, 6-13, 9-13 ]	
* Liver	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 4-12, 8-12 ]	
* Lung	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 16-10 ]	
Lymph Node	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 11-19, 12-20, 13-21 ]	
* Lymph Node, Mandibular	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 7-9 ]	
* Lymph Node, Mesenteric	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 14-15 ]	
* Mammary Gland	Lymphoma Malignant
* Nose	Lymphoma Malignant
* Ovary	Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 778

TRT#: 8

SEX: Female

DAY ON TEST: 590

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-778

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Lymphoma Malignant
* Parathyroid Gland	
Note: One parathyroid gland examined.	
* Salivary Glands	Lymphoma Malignant
* Skeletal Muscle	Lymphoma Malignant
* Skin	Lymphoma Malignant
* Spinal Cord	Lymphoma Malignant
* Spleen	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 1-12 ]	
* Stomach, Forestomach	Lymphoma Malignant
* Stomach, Glandular	Lymphoma Malignant
* Thymus	Lymphoma Malignant
* Thyroid Gland	Lymphoma Malignant
* Urinary Bladder	Lymphoma Malignant
* Uterus	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 10-16 ]	

PRIMARY CAUSE OF DEATH	- Liver Lymphoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Bone Marrow Lymphoma Malignant
	- Heart Lymphoma Malignant
	- Kidney Lymphoma Malignant
	- Lung Lymphoma Malignant
	- Spleen Lymphoma Malignant

Animal Note: TGLs 2 & 3 = NST; TGL 15 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 779

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Clitoral Gland
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic

INSUFFICIENT TISSUE

- \* Uterus

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Clitoral Gland  
    Note: One clitoral gland was examined.
- \* Kidney                                              Infarct                                              Mild
- \* Liver                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Ovary  
    Note: One ovary examined.
- \* Parathyroid Gland  
    Note: One parathyroid gland examined.
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 780

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skin
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Kidney
- \* Nose
- \* Spinal Cord
- \* Trachea

MISSING

- \* Gallbladder
- \* Pituitary Gland
- \* Harderian Gland
- \* Thymus
- \* Nerve Trigeminal
- \* Ovary

AUTO PRECLUDES DIAG.

- \* Intestine Small, Ileum

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Minimal
- \* Brain                                              Mineral                                              Mild
- \* Liver                                              Hepatocellular Carcinoma                      Necrosis                                              Mild
- [ Hepatocellular Carcinoma    TGLs = 2-12 ]
- \* Lymph Node, Mandibular                      Hyperplasia                                              Lymphoid, Moderate
- Mesentery                                              Fat                                              Necrosis                                              Moderate
- [ Necrosis    TGLs = 1-19 ]
- \* Pancreas                                              Infiltration Cellular                                              Lymphocyte, Mild
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Skeletal Muscle                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Spleen                                              Extramedullary Hematopoiesis                                              Moderate
- [ Extramedullary Hematopoiesis    TGLs = 6-12 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 780

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-780

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Note: One uterine horn was examined.

---

**PRIMARY CAUSE OF DEATH** - Liver Hepatocellular Carcinoma

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Animal Note: TGLs 3 & 5 = NCL; TGL 4 = NST

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 781

TRT#: 8

SEX: Female

DAY ON TEST: 745

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lung                      | * Lymph Node, Mesenteric    | * Mammary Gland            |
| * Nose                      | * Ovary                     | * Peripheral Nerve, Sciatic | * Skeletal Muscle          |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach      | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                   |                            |

MISSING

- |                          |                    |                     |
|--------------------------|--------------------|---------------------|
| * Lymph Node, Mandibular | * Nerve Trigeminal | * Parathyroid Gland |
|--------------------------|--------------------|---------------------|

OBSERVATIONS

- |                                    |                                |                                                     |                                |
|------------------------------------|--------------------------------|-----------------------------------------------------|--------------------------------|
| * Adrenal Cortex                   | Subcapsular<br>Bilateral       | Hyperplasia<br>Vacuolization Cytoplasmic<br>Mineral | Mild<br>Mild<br>Minimal        |
| * Brain                            |                                |                                                     |                                |
| * Clitoral Gland                   |                                |                                                     |                                |
| Note: One clitoral gland examined. |                                |                                                     |                                |
| * Harderian Gland                  |                                | Infiltration Cellular                               | Lymphocyte, Minimal            |
| * Kidney                           | Interstitium                   | Infiltration Cellular                               | Lymphocyte, Minimal            |
| * Liver                            |                                | Infiltration Cellular<br>Necrosis                   | Lymphocyte, Minimal<br>Minimal |
| * Ovary                            |                                |                                                     |                                |
| Note: One ovary examined.          |                                |                                                     |                                |
| * Pancreas                         |                                | Infiltration Cellular                               | Lymphocyte, Minimal            |
| * Pituitary Gland                  | Pars Distalis<br>Pars Distalis | Angiectasis<br>Hyperplasia                          | Moderate<br>Focal, Mild        |
| Note: Pars distalis examined.      |                                |                                                     |                                |
| * Salivary Glands                  |                                | Infiltration Cellular                               | Lymphocyte, Minimal            |
| * Skin                             | Hair Follicle                  | Atrophy                                             | Moderate                       |
| [ Atrophy TGLs = 1-19 ]            |                                |                                                     |                                |
| * Thyroid Gland                    |                                |                                                     |                                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 781

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-781

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: One thyroid gland examined

\* Urinary Bladder

\* Uterus

Infiltration Cellular

Dilation

Hyperplasia

Lymphocyte, Minimal

Moderate

Cystic, Mild

Endometrium

[ Dilation TGLs = 2-16 ]

---



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 785

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Spleen
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Thyroid Gland

OBSERVATIONS

- |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                  |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Brain</li> <li>* Harderian Gland</li> <li>* Kidney</li> <li>  Lymph Node</li> <li>    [ Hyperplasia TGLs = 3-19 ]</li> <li>* Ovary</li> <li>  [ Cyst TGLs = 1-16 ]</li> <li>* Salivary Glands</li> <li>* Urinary Bladder</li> <li>* Uterus</li> <li>  [ Dilation TGLs = 2-16 ]</li> </ul> | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>  Interstitialium</li> <li>  Iliac</li> <li>  Endometrium</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> <li>Cyst</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Dilation</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Mild</li> <li>Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphoid, Mild</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Mild</li> <li>Moderate</li> <li>Cystic, Mild</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 787

TRT#: 8

SEX: Female

DAY ON TEST: 746

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                             |
|-----------------------------|-----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow               |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                       |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  |
| * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland             |
| * Nose                      | * Ovary                     | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Skeletal Muscle           | * Spinal Cord            | * Spleen                    |
| * Stomach, Forestomach      | * Thymus                    | * Trachea                | * Urinary Bladder           |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |               |                       |                     |
|---------------------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                               |               | Mineral               | Minimal             |
| * Clitoral GI                         |               |                       |                     |
| Note: One clitoral gland examined.    |               |                       |                     |
| * Harderian Gland                     |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Islets, Pancreatic                  |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              |               | Infarct               | Minimal             |
|                                       | Interstitial  | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Pancreas                            |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid GI                      |               |                       |                     |
| Note: One parathyroid gland examined. |               |                       |                     |
| * Salivary Glands                     |               | Infiltration Cellular | Lymphocyte, Mild    |
| * Skin                                | Hair Follicle | Atrophy               | Marked              |
| [ Atrophy TGLs = 1-19 ]               |               |                       |                     |
| * Stomach, Glandular                  |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Thyroid Gland                       |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              | Endometrium   | Hyperplasia           | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 788

TRT#: 8

SEX: Female

DAY ON TEST: 750

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Adren Medulla  
    Note: One adrenal medulla examined.
- \* Brain                                      Mineral                                      Mild
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Mild  
    Note: One Harderian gland examined.
- \* Islets, Pancreatic                      Adenoma  
    [ Adenoma    TGLs = 4-6 ]
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Liver                                      Infiltration Cellular                      Lymphocyte, Minimal
- Mesentery                                      Fat                                      Necrosis                                      Mild  
    [ Necrosis    TGLs = 2-19, 3-20 ]
- \* Pancreas                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Parathyroid Gland  
    Note: One parathyroid gland examined.
- \* Pituitary Gland  
    Note: Pars distalis examined.
- \* Salivary Glands                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                                      Hyperplasia                                      Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 788

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-788

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 1-16 ]

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 789

TRT#: 8

SEX: Female

DAY ON TEST: 745

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                           |

MISSING

- |               |                          |                    |
|---------------|--------------------------|--------------------|
| * Gallbladder | * Lymph Node, Mesenteric | * Nerve Trigeminal |
|---------------|--------------------------|--------------------|

OBSERVATIONS

- |                                    |             |                       |                     |
|------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular | Hyperplasia           | Mild                |
| * Brain                            |             | Mineral               | Mild                |
| * Clitoral GI                      |             |                       |                     |
| Note: One clitoral gland examined. |             |                       |                     |
| * Harderian Gland                  |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                            |             | Basophilic Focus      |                     |
| * Salivary Glands                  |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                  |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                           | Endometrium | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]        |             |                       |                     |



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 791

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Lung
- \* Nerve Trigeminal
- \* Pituitary Gland
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Nose
- \* Salivary Glands
- \* Spleen
- \* Thyroid Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Jejunum
- \* Intestine Large, Cecum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum

OBSERVATIONS

- \* Adrenal Cortex Subcapsular Hyperplasia Mild
- \* Adren Medulla
  - Note: One adrenal medulla examined.
- \* Harderian Gland Infiltration Cellular Lymphocyte, Minimal
- \* Kidney Infarct Minimal
  - [ Infarct TGLs = 4-13 ]
- Mesentery Fat Necrosis Mild
  - [ Necrosis TGLs = 3-6 ]
- \* Ovary Cyst
  - Note: One ovary examined.
  - [ Cyst TGLs = 1-16 ]
- \* Parathyroid GI
- Note: One parathyroid gland examined.
- \* Peripheral Nerve, Sciatic Axon Degeneration Moderate
- \* Urinary Bladder Infiltration Cellular Lymphocyte, Minimal
- \* Uterus Dilation Mild
  - [ Dilation TGLs = 2-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 791

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 726

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-791

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- UNCERTAIN

---

Animal Note: TGLs 5 & 6 = NCL

---





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 792

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 720

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-792

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Peripheral Nerve, Sciatic	Axon	Degeneration	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
	[ Extramedullary Hematopoiesis TGLs = 1-12 ]		
Tissue NOS		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 5-14 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

---

PRIMARY CAUSE OF DEATH - Intestine Small, Ileum Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 795

TRT#: 8

SEX: Female

DAY ON TEST: 111

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Aorta
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Brain Trigeminal Ganglion
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nerve Trigeminal
- \* Nose
- \* Parathyroid Gland
- \* Peripheral Nerve, Sciatic
- \* Salivary Glands
- \* Skeletal Muscle
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus

MISSING

- \* Intestine Small, Ileum
- \* Pituitary Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Ovary
- \* Pancreas
- \* Spleen
- \* Stomach, Glandular

OBSERVATIONS

- \* Heart
    - Note: NCL
  - \* Int Lg Cecum
    - Note: NCL
  - \* Int Lg Colon
    - Note: NCL
  - \* Int Lg Rectum
    - Note: NCL
  - \* Int Sm Duoden
    - Note: NCL
  - \* Int Sm Jejunum
    - Note: NCL
  - \* Kidney
    - Hemorrhage
    - Minimal
- [ Hemorrhage TGLs = 7-13 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 795

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 111

**DOSE:** 10 W/kg

**DISP:** Natural Death

**HISTO:** 12-5117-795

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Ovary

Note: NCL

\* Spleen

Note: NCL

\* Uterus

Note: NCL

---

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

---

Animal Note: TGL 1 = NST; TGLs 2, 3, 4, 5, 6, & 8 = NCL

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 796

TRT#: 8

SEX: Female

DAY ON TEST: 745

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                            |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>* Brain</li> <li>* Harderian Gland</li> <li>* Kidney</li> <li>* Lung</li> <li>* Ovary</li> <li style="padding-left: 20px;">[ Cyst TGLs = 1-16, 2-16 ]</li> <li>* Salivary Glands</li> <li>* Urinary Bladder</li> <li>* Uterus</li> <li style="padding-left: 20px;">[ Hyperplasia TGLs = 3-16 ]</li> </ul> | <ul style="list-style-type: none"> <li>Subcapsular</li> <li>Interstitialium</li> <li>Pelvis</li> <li>Bursa</li> <li>Endometrium</li> </ul> | <ul style="list-style-type: none"> <li>Hyperplasia</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Mineral</li> <li>Infiltration Cellular</li> <li>Cyst</li> <li>Infiltration Cellular</li> <li>Infiltration Cellular</li> <li>Hyperplasia</li> </ul> | <ul style="list-style-type: none"> <li>Mild</li> <li>Minimal</li> <li>Lymphocyte, Minimal</li> <li>Lymphocyte, Minimal</li> <li>Minimal</li> <li>Lymphocyte, Mild</li> <li>Lymphocyte, Mild</li> <li>Cystic, Moderate</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 797

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Uterus
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                      Minimal
- \* Harderian Gland                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                                              Interstitium                                      Infiltration Cellular                      Lymphocyte, Mild
- Nephropathy                                      Chronicprogr, Minimal
- \* Liver                                              Basophilic Focus
- [ Basophilic Focus    TGLs = 1-19 ]
- \* Mammary Gland                                      Duct                                      Dilatation                                      Moderate
- Mesentery                                      Fat                                      Necrosis                                      Moderate
- [ Necrosis    TGLs = 2-6 ]
- \* Pancreas                                              Infiltration Cellular                      Lymphocyte, Mild
- \* Pituitary Gland                                      Pars Distalis                                      Adenoma
- [ Adenoma    TGLs = 4-4 ]
- \* Skeletal Muscle                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                                      Infiltration Cellular                      Lymphocyte, Mild

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 799

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Clitoral Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                              Mineral                                              Minimal
- \* Harderian Gland                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Kidney                                              Interstitium                                              Infiltration Cellular                                              Lymphocyte, Mild
- Mesentery                                              Fat                                              Metaplasia                                              Osseous
- [ Necrosis    TGLs = 3-19 ]                                              Necrosis                                              Moderate
- \* Ovary                                              Cystadenoma
- [ Cystadenoma    TGLs = 1-16 ]
- \* Parathyroid GI                                              Note: One parathyroid gland examined.
- \* Salivary Glands                                              Infiltration Cellular                                              Lymphocyte, Minimal
- \* Thyroid GI                                              Note: One thyroid gland examined.
- \* Urinary Bladder                                              Infiltration Cellular                                              Lymphocyte, Mild
- \* Uterus                                              Endometrium                                              Hyperplasia                                              Cystic, Mild
- [ Hyperplasia    TGLs = 2-16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 800

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Brain Trigeminal Ganglion | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                           |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |              |                       |                       |
|---------------------------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                  |
| * Brain                               |              | Mineral               | Minimal               |
| * Gallbladder                         |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal   |
|                                       |              | Nephropathy           | Chronicprogr, Minimal |
| * Liver                               |              | Infiltration Cellular | Lymphocyte, Minimal   |
| Lymph Node                            | Bronchial    | Hyperplasia           | Lymphoid, Mild        |
|                                       |              |                       |                       |
| [ Hyperplasia TGLs = 2-19 ]           |              |                       |                       |
| * Parathyroid GI                      |              |                       |                       |
| Note: One parathyroid gland examined. |              |                       |                       |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Mild          |
|                                       |              |                       |                       |
| [ Hyperplasia TGLs = 1-16 ]           |              |                       |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 801

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                             |                            |
|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus                 | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric    | * Mammary Gland            |
| * Nose                      | * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Skin                      | * Spinal Cord               | * Spleen                    | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland             | * Trachea                  |

MISSING

- |                    |                     |
|--------------------|---------------------|
| * Nerve Trigeminal | * Parathyroid Gland |
|--------------------|---------------------|

OBSERVATIONS

- |                                   |              |                       |                       |
|-----------------------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex                  | Subcapsular  | Hyperplasia           | Mild                  |
| * Brain                           |              | Mineral               | Mild                  |
| * Harderian Gland                 |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Kidney                          | Interstitium | Infiltration Cellular | Lymphocyte, Minimal   |
|                                   |              | Nephropathy           | Chronicprogr, Minimal |
| * Liver                           |              | Infiltration Cellular | Lymphocyte, Mild      |
|                                   |              | Mixed Cell Focus      |                       |
| * Lung                            |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Ovary                           | Follicle     | Cyst                  |                       |
| * Pituitary Gland                 |              |                       |                       |
| Note: Pars distalis examined.     |              |                       |                       |
| * Salivary Glands                 |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Skeletal Muscle                 |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Thyroid Gland                   |              |                       |                       |
| Note: One thyroid gland examined. |              |                       |                       |
| * Urinary Bladder                 |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Uterus                          |              | Dilation              | Moderate              |
|                                   | Endometrium  | Hyperplasia           | Cystic, Minimal       |

[ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 802

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                           |
|-----------------------------|-----------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus                 | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                      | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nerve Trigeminal          | * Nose                      | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland          | * Skeletal Muscle         |
| * Skin                      | * Spinal Cord               | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            | * Trachea                 |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                                       |             |                       |                     |
|---------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular | Hyperplasia           | Mild                |
| * Brain                               |             | Mineral               | Minimal             |
| * Harderian Gland                     |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric              |             | Hemorrhage            | Minimal             |
| * Parathyroid Gland                   |             |                       |                     |
| Note: One parathyroid gland examined. |             |                       |                     |
| * Salivary Glands                     |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Urinary Bladder                     |             | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                              | Endometrium | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]           |             |                       |                     |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 803

TRT#: 8

SEX: Female

DAY ON TEST: 745

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric    | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          |
| * Skin                      | * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular        | * Thymus                    | * Thyroid Gland          | * Trachea                  |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |              |                       |                       |
|---------------------------------------|--------------|-----------------------|-----------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                  |
| * Brain                               |              | Mineral               | Minimal               |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                              | Interstitium | Infiltration Cellular | Lymphocyte, Minimal   |
| Mesentery                             | Fat          | Necrosis              | Mild                  |
| [ Necrosis TGLs = 1-6 ]               |              |                       |                       |
| * Ovary                               |              |                       |                       |
| Note: One ovary examined.             |              |                       |                       |
| * Pancreas                            |              | Degeneration          | Mild                  |
|                                       |              | Inflammation          | Suppurative, Moderate |
| * Parathyroid GI                      |              |                       |                       |
| Note: One parathyroid gland examined. |              |                       |                       |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal   |
| * Urinary Bladder                     |              | Infiltration Cellular | Lymphocyte, Mild      |
| * Uterus                              | Endometrium  | Hyperplasia           | Cystic, Mild          |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 804

TRT#: 8

SEX: Female

DAY ON TEST: 750

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Mammary Gland             | * Nerve Trigeminal       | * Nose                     | * Parathyroid Gland       |
| * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  |                           |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                                              |             |                        |                     |
|----------------------------------------------|-------------|------------------------|---------------------|
| * Adrenal Cortex                             | Subcapsular | Hyperplasia            | Mild                |
| Note: One adrenal cortex examined.           |             |                        |                     |
| * Adren Medulla                              |             |                        |                     |
| Note: One adrenal medulla examined.          |             |                        |                     |
| * Brain                                      |             | Mineral                | Mild                |
| * Harderian Gland                            |             | Infiltration Cellular  | Lymphocyte, Minimal |
| * Islets, Pancreatic                         |             | Infiltration Cellular  | Lymphocyte, Mild    |
| * Kidney                                     |             | Histiocytic Sarcoma    |                     |
| * Liver                                      |             | Hepatocellular Adenoma | Multiple            |
| [ Hepatocellular Adenoma TGLs = 5-12, 6-12 ] |             |                        |                     |
| Lymph Node                                   |             | Histiocytic Sarcoma    |                     |
| [ Histiocytic Sarcoma TGLs = 4-19 ]          |             |                        |                     |
| * Lymph Node, Mandibular                     |             | Histiocytic Sarcoma    |                     |
| [ Histiocytic Sarcoma TGLs = 1-9 ]           |             |                        |                     |
| * Lymph Node, Mesenteric                     |             | Histiocytic Sarcoma    |                     |
| * Ovary                                      |             | Cyst                   |                     |
| [ Cyst TGLs = 2-20 ]                         |             |                        |                     |
| * Pancreas                                   |             | Infiltration Cellular  | Lymphocyte, Mild    |
| * Parathyroid GI                             |             |                        |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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**ANIMAL ID:** 804

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 750

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-804

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: One parathyroid gland examined.

\* Salivary Glands

\* Urinary Bladder

\* Uterus

Endometrium

[ Hyperplasia TGLs = 3-16 ]

Infiltration Cellular

Infiltration Cellular

Hyperplasia

Lymphocyte, Minimal

Lymphocyte, Mild

Cystic, Moderate

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Animal Note: TGL 7 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 806

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                             |                            |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla         | * Aorta                     | * Bone                      | * Bone Marrow              |
| * Clitoral Gland          | * Esophagus                 | * Eye                       | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                      | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nerve Trigeminal          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Peripheral Nerve, Sciatic | * Pituitary Gland          |
| * Skeletal Muscle         | * Skin                      | * Spinal Cord               | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                    | * Thyroid Gland            |
| * Trachea                 |                             |                             |                            |

MISSING

- |                             |                     |
|-----------------------------|---------------------|
| * Brain Trigeminal Ganglion | * Parathyroid Gland |
|-----------------------------|---------------------|

OBSERVATIONS

- |                             |              |                       |                     |
|-----------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                     |              | Mineral               | Minimal             |
| * Kidney                    | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                     |              |                       |                     |
| Note: One ovary examined.   |              |                       |                     |
| * Salivary Glands           |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Urinary Bladder           |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                    | Endometrium  | Hyperplasia           | Cystic, Mild        |
| [ Hyperplasia TGLs = 1-16 ] |              |                       |                     |

Animal Note: TGL 2 = NCL



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 808

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                             |                           |
|-----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Medulla           | * Aorta                  | * Bone                      | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                       | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon    | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum  | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Mammary Gland          | * Nerve Trigeminal          | * Nose                    |
| * Ovary                     | * Parathyroid Gland      | * Peripheral Nerve, Sciatic | * Skin                    |
| * Spinal Cord               | * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                   |                           |

MISSING

- \* Brain Trigeminal Ganglion

OBSERVATIONS

- |                          |                                       |                       |                       |
|--------------------------|---------------------------------------|-----------------------|-----------------------|
| * Adrenal Cortex         | Subcapsular                           | Hyperplasia           | Mild                  |
| * Brain                  |                                       | Mineral               | Minimal               |
| * Harderian Gland        |                                       | Infiltration Cellular | Lymphocyte, Minimal   |
| * Kidney                 | Interstitium                          | Infarct               | Mild                  |
|                          |                                       | Infiltration Cellular | Lymphocyte, Mild      |
|                          |                                       | Nephropathy           | Chronicprogr, Minimal |
| * Liver                  |                                       | Basophilic Focus      |                       |
|                          |                                       | Infiltration Cellular | Lymphocyte, Mild      |
|                          | [ Basophilic Focus TGLs = 2-19 ]      |                       |                       |
| * Lung                   | Alveolar Epith                        | Hyperplasia           | Focal, Mild           |
| * Lymph Node, Mesenteric |                                       | Infiltration Cellular | Histiocyte, Mild      |
| * Pancreas               |                                       | Infiltration Cellular | Lymphocyte, Minimal   |
| * Parathyroid GI         |                                       |                       |                       |
|                          | Note: One parathyroid gland examined. |                       |                       |
| * Pituitary Gland        | Pars Distalis                         | Adenoma               |                       |
|                          | [ Adenoma TGLs = 3-4 ]                |                       |                       |
| * Salivary Glands        |                                       | Infiltration Cellular | Lymphocyte, Mild      |
| * Skeletal Muscle        |                                       | Infiltration Cellular | Lymphocyte, Mild      |
| * Urinary Bladder        |                                       | Infiltration Cellular | Lymphocyte, Mild      |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

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**ANIMAL ID:** 808

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 751

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-808

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Dilation

Moderate

[ Dilation TGLs = 1-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 811

TRT#: 8

SEX: Female

DAY ON TEST: 743

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Spinal Cord
- \* Thymus

MISSING

- \* Nerve Trigeminal

INSUFFICIENT TISSUE

- \* Peripheral Nerve, Sciatic

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineral	Minimal
* Clitoral Gland			
Note: One clitoral gland examined.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitial	Infiltration Cellular	Lymphocyte, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Parathyroid Gland		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
		Polyp Stromal	

[ Hyperplasia TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 812

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-812

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 813

TRT#: 8

SEX: Female

DAY ON TEST: 680

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Nose
- \* Skeletal Muscle
- \* Aorta
- \* Eye
- \* Intestine Large, Rectum
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Bone
- \* Heart
- \* Intestine Small, Duodenum
- \* Peripheral Nerve, Sciatic
- \* Thyroid Gland
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pituitary Gland
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular Histiocytic Sarcoma Hyperplasia Mild
- \* Bone Marrow Histiocytic Sarcoma
- \* Brain Histiocytic Sarcoma
- \* Clitoral Gland Histiocytic Sarcoma
- \* Gallbladder Histiocytic Sarcoma
- \* Harderian Gland Histiocytic Sarcoma
- \* Intestine Small, Ileum Histiocytic Sarcoma
- \* Islets, Pancreatic Histiocytic Sarcoma
- \* Kidney Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 11-13, 12-13 ]
- \* Liver Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 1-12, 2-12, 3-19, 4-12, 5-12 ]
- \* Lung Histiocytic Sarcoma
  - Lymph Node Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 8-21, 9-22, 10-20 ]
- \* Lymph Node, Mandibular Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 6-9 ]
- \* Lymph Node, Mesenteric Histiocytic Sarcoma
- \* Mammary Gland Histiocytic Sarcoma
  - Mesentery Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 7-23 ]
- \* Nerve Trigeminal Histiocytic Sarcoma
- \* Ovary Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 813

TRT#: 8

SEX: Female

DAY ON TEST: 680

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-813

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Histiocytic Sarcoma	
* Salivary Glands		Histiocytic Sarcoma	
* Skin		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 15-9 ]		
* Spinal Cord		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 13-12, 14-12 ]		
* Stomach, Glandular		Histiocytic Sarcoma	
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

Animal Note: TGL 16 = NCL; TGL 17 = NST





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 815

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Thymus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spinal Cord
- \* Thyroid Gland

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                                       |                                 |                              |                     |
|---------------------------------------|---------------------------------|------------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular                     | Hyperplasia                  | Mild                |
| * Brain                               |                                 | Mineral                      | Mild                |
| * Harderian Gland                     |                                 | Infiltration Cellular        | Lymphocyte, Mild    |
| * Kidney                              | Interstitium                    | Infiltration Cellular        | Lymphocyte, Minimal |
| * Liver                               |                                 | Hemangiosarcoma              |                     |
|                                       |                                 | Hepatocellular Adenoma       |                     |
|                                       | [ Hemangiosarcoma TGLs = 3-20 ] |                              |                     |
| * Ovary                               |                                 | Cystadenoma                  |                     |
|                                       | [ Cystadenoma TGLs = 2-16 ]     |                              |                     |
| * Parathyroid Gland                   |                                 |                              |                     |
| Note: One parathyroid gland examined. |                                 |                              |                     |
| * Pituitary Gland                     | Pars Distalis                   | Angiectasis                  | Moderate            |
|                                       | [ Angiectasis TGLs = 1-4 ]      |                              |                     |
| * Skeletal Muscle                     |                                 | Infiltration Cellular        | Lymphocyte, Minimal |
| * Spleen                              |                                 | Extramedullary Hematopoiesis | Mild                |
| * Urinary Bladder                     |                                 | Infiltration Cellular        | Lymphocyte, Mild    |
| * Uterus                              | Endometrium                     | Hyperplasia                  | Cystic, Minimal     |

Animal Note: TGL 4 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 817

TRT#: 8

SEX: Female

DAY ON TEST: 746

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Aorta                  | * Bone                     | * Bone Marrow             | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic |
| * Pituitary Gland        | * Skeletal Muscle          | * Skin                    | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- |                             |                    |
|-----------------------------|--------------------|
| * Brain Trigeminal Ganglion | * Nerve Trigeminal |
|-----------------------------|--------------------|

INSUFFICIENT TISSUE

- \* Adrenal Medulla

OBSERVATIONS

- |                                       |              |                       |                     |
|---------------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                               |              | Mineral               | Minimal             |
| * Harderian Gland                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                              | Interstitial | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                               |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Parathyroid Gland                   |              |                       |                     |
| Note: One parathyroid gland examined. |              |                       |                     |
| * Salivary Glands                     |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                              |              | Dilation              | Mild                |
|                                       | Endometrium  | Hyperplasia           | Cystic, Minimal     |

[ Dilation TGLs = 1-16 ]

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 818

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Spleen
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- |                             |               |                       |                     |
|-----------------------------|---------------|-----------------------|---------------------|
| * Adrenal Cortex            | Subcapsular   | Hyperplasia           | Mild                |
| * Brain                     |               | Mineral               | Mild                |
| * Harderian Gland           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney                    | Interstitium  | Infiltration Cellular | Lymphocyte, Minimal |
| * Ovary                     | Follicle      | Cyst                  |                     |
| [ Cyst TGLs = 1-16 ]        |               |                       |                     |
| * Pancreas                  | Duct          | Cyst                  |                     |
| [ Cyst TGLs = 4-19 ]        |               |                       |                     |
| * Pituitary Gland           | Pars Distalis | Hyperplasia           | Focal, Mild         |
| * Urinary Bladder           |               | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                    | Endometrium   | Hyperplasia           | Cystic, Mild        |
| [ Hyperplasia TGLs = 2-16 ] |               |                       |                     |

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 819

TRT#: 8

SEX: Female

DAY ON TEST: 745

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular Accessory Adrenal Cortical Nodule
  - Hyperplasia Mild
- \* Brain
  - Artery, Meninges Inflammation Chronic Active, Mild
  - Mineral Mild
- \* Harderian Gland
  - Infiltration Cellular Lymphocyte, Minimal
- \* Kidney
  - Interstitial Infiltration Cellular Lymphocyte, Mild
- \* Liver
  - Infiltration Cellular Lymphocyte, Minimal
- Lymph Node
  - Iliac Hyperplasia Lymphoid, Mild
- [ Hyperplasia TGLs = 2-19 ]
- \* Parathyroid GI
  - Note: One parathyroid gland examined.
- \* Salivary Glands
  - Infiltration Cellular Lymphocyte, Minimal
- \* Skeletal Muscle
  - Infiltration Cellular Lymphocyte, Minimal
- \* Spinal Cord
  - Artery, Meninges Inflammation Chronic Active, Minimal
- \* Urinary Bladder
  - Infiltration Cellular Lymphocyte, Mild
- \* Uterus
  - Dilation Marked
  - Endometrium Hyperplasia Cystic, Mild
- [ Dilation TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 819

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 745

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-819

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: TGL 3 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 820

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Aorta
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Stomach, Glandular

MISSING

- \* Gallbladder
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
  - \* Brain                                      Mineral                                      Mild
  - \* Clitoral Gland  
    Note: One clitoral gland examined.
  - \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Mild
  - \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Ovary  
    Note: One ovary examined.
  - \* Skeletal Muscle                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Minimal
  - \* Uterus                                      Dilatation                                      Marked
- [ Dilatation    TGLs = 2-16 ]

Animal Note: TGL 1 = NCL

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 821

TRT#: 8

SEX: Female

DAY ON TEST: 746

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nerve Trigeminal
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Nose
- \* Skin
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Spinal Cord
- \* Thymus
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Spleen
- \* Thyroid Gland

MISSING

- \* Brain Trigeminal Ganglion
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Brain                                      Mineral                                      Minimal
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Mild
- \* Kidney                                      Interstitium                                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                                      Hepatocellular Adenoma
- Mesentery                                      Fat                                      Necrosis                                      Moderate
- [ Necrosis    TGLs = 2-6 ]
- \* Pituitary Gland                      Pars Distalis                                      Adenoma
- [ Adenoma    TGLs = 4-4 ]
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Mild
- \* Skeletal Muscle                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Urinary Bladder                      Infiltration Cellular                      Lymphocyte, Mild
- \* Uterus                                      Endometrium                                      Hyperplasia                                      Cystic, Mild
- [ Hyperplasia    TGLs = 1-16 ]

Animal Note: TGL 3 = NCL

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 822

TRT#: 8

SEX: Female

DAY ON TEST: 681

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-822

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ORGAN AND ACCOUNTABLE SITE STATUS

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\* Ovary Lymphoma Malignant  
[ Lymphoma Malignant TGLs = 10-16 ]

\* Parathyroid GI  
Note: One parathyroid gland examined.

\* Spleen Lymphoma Malignant

\* Thyroid GI  
Note: One thyroid gland examined.

\* Uterus Lymphoma Malignant  
[ Lymphoma Malignant TGLs = 4-16 ]

---

PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

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Animal Note: TGLs 6, 7, & 8 = NCL

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 823

TRT#: 8

SEX: Female

DAY ON TEST: 390

DOSE: 10 W/kg

DISP: Natural Death

HISTO: 12-5117-823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                      |                          |                             |
|-----------------------------|----------------------|--------------------------|-----------------------------|
| * Adrenal Cortex            | * Adrenal Medulla    | * Aorta                  | * Bone                      |
| * Bone Marrow               | * Brain              | * Clitoral Gland         | * Esophagus                 |
| * Eye                       | * Harderian Gland    | * Heart                  | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Nose                      | * Pancreas           | * Parathyroid Gland      | * Peripheral Nerve, Sciatic |
| * Pituitary Gland           | * Salivary Glands    | * Skeletal Muscle        | * Skin                      |
| * Spinal Cord               | * Thyroid Gland      | * Trachea                | * Urinary Bladder           |

MISSING

- |                             |               |                 |                    |
|-----------------------------|---------------|-----------------|--------------------|
| * Brain Trigeminal Ganglion | * Gallbladder | * Mammary Gland | * Nerve Trigeminal |
| * Ovary                     | * Thymus      |                 |                    |

AUTO PRECLUDES DIAG.

- |                          |                          |                          |                            |
|--------------------------|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney                 | * Spleen                 | * Stomach, Forestomach   | * Stomach, Glandular       |

OBSERVATIONS

- |                                      |                            |                           |          |
|--------------------------------------|----------------------------|---------------------------|----------|
| * Adren Cortex                       |                            |                           |          |
| Note: One adrenal cortex available.  |                            |                           |          |
| * Adren Medulla                      |                            |                           |          |
| Note: One adrenal medulla available. |                            |                           |          |
| * Liver                              | Hepatocyte                 | Vacuolization Cytoplasmic | Mild     |
| * Lung                               |                            | Congestion                | Moderate |
|                                      |                            | Hemorrhage                | Mild     |
|                                      | [ Congestion TGLs = 1-10 ] |                           |          |
|                                      | [ Hemorrhage TGLs = 1-10 ] |                           |          |
| * Uterus                             |                            | Polyp Stromal             |          |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 825

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Nerve Trigeminal
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Skin
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Trachea

MISSING

- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Ovary

OBSERVATIONS

- |                                    |             |                       |                     |
|------------------------------------|-------------|-----------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular | Hyperplasia           | Mild                |
| * Brain                            |             | Mineral               | Mild                |
| * Clitoral Gland                   |             |                       |                     |
| Note: One clitoral gland examined. |             |                       |                     |
| * Harderian Gland                  |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                            |             | Infiltration Cellular | Lymphocyte, Mild    |
| * Lymph Node, Mesenteric           |             | Hyperplasia           | Lymphoid, Marked    |
| * Pancreas                         |             | Infiltration Cellular | Lymphocyte, Mild    |
| * Salivary Glands                  |             | Infiltration Cellular | Lymphocyte, Minimal |
| * Spleen                           |             | Hyperplasia           | Lymphoid, Moderate  |
| [ Hyperplasia TGLs = 2-12 ]        |             |                       |                     |
| * Thymus                           |             | Cyst                  |                     |
| * Uterus                           |             | Dilation              | Moderate            |
| [ Dilation TGLs = 1-16 ]           |             |                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 827

TRT#: 8

SEX: Female

DAY ON TEST: 745

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Ovary
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Skin
- \* Thymus

MISSING

- \* Lymph Node, Mandibular
- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Bone Marrow
- \* Brain                                      Mineral                              Mild
- \* Harderian Gland
- \* Kidney                                    Interstitium                      Infiltration Cellular              Lymphocyte, Minimal
- \* Liver
- Mesentery                              Fat                                    Necrosis                              Moderate
- [ Necrosis    TGLs = 3-19 ]
- \* Pancreas
- \* Pituitary Gland                      Pars Distalis                      Angiectasis                      Mild
- \* Salivary Glands
- \* Spleen
- \* Thyroid GI
- Note: One thyroid gland examined.
- Tissue NOS                              Hemangiosarcoma
- [ Hemangiosarcoma    TGLs = 1-20 ]
- \* Urinary Bladder
- \* Uterus                                    Endometrium                      Infiltration Cellular              Lymphocyte, Mild
- [ Hyperplasia    TGLs = 2-16 ]                      Hyperplasia                      Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 828

TRT#: 8

SEX: Female

DAY ON TEST: 743

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                          |                            |
|-----------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla           | * Aorta                     | * Bone                   | * Bone Marrow              |
| * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic        | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland             | * Nerve Trigeminal          | * Nose                   | * Pancreas                 |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Pituitary Gland        | * Skeletal Muscle          |
| * Spinal Cord               | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                    | * Thyroid Gland             | * Trachea                |                            |

OBSERVATIONS

- |                                    |               |                       |                      |
|------------------------------------|---------------|-----------------------|----------------------|
| * Adrenal Cortex                   | Subcapsular   | Hyperplasia           | Mild                 |
| * Brain                            |               | Mineral               | Minimal              |
| * Clitoral GI                      |               |                       |                      |
| Note: One clitoral gland examined. |               |                       |                      |
| * Harderian Gland                  |               | Infiltration Cellular | Lymphocyte, Minimal  |
| * Kidney                           | Interstitial  | Infiltration Cellular | Lymphocyte, Minimal  |
| * Lung                             |               | Inflammation          | Chronic Active, Mild |
| * Ovary                            | Follicle      | Cyst                  |                      |
| * Pituitary GI                     |               |                       |                      |
| Note: Pars distalis examined.      |               |                       |                      |
| * Salivary Glands                  |               | Infiltration Cellular | Lymphocyte, Minimal  |
| * Skin                             | Hair Follicle | Atrophy               | Moderate             |
| [ Atrophy TGLs = 1-20 ]            |               |                       |                      |
| * Urinary Bladder                  |               | Infiltration Cellular | Lymphocyte, Minimal  |
| * Uterus                           | Endometrium   | Hyperplasia           | Cystic, Moderate     |

Animal Note: TGL 2 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 829

TRT#: 8

SEX: Female

DAY ON TEST: 746

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                             |                            |                             |
|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| * Adrenal Medulla           | * Bone                      | * Bone Marrow              | * Brain Trigeminal Ganglion |
| * Clitoral Gland            | * Esophagus                 | * Eye                      | * Gallbladder               |
| * Heart                     | * Intestine Large, Cecum    | * Intestine Large, Colon   | * Intestine Large, Rectum   |
| * Intestine Small, Duodenum | * Intestine Small, Ileum    | * Intestine Small, Jejunum | * Islets, Pancreatic        |
| * Lung                      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland             |
| * Nerve Trigeminal          | * Nose                      | * Ovary                    | * Pancreas                  |
| * Parathyroid Gland         | * Peripheral Nerve, Sciatic | * Skeletal Muscle          | * Skin                      |
| * Spinal Cord               | * Stomach, Forestomach      | * Stomach, Glandular       | * Thymus                    |
| * Thyroid Gland             | * Trachea                   |                            |                             |

MISSING

- \* Aorta

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                                       |              |                              |                     |
|---------------------------------------|--------------|------------------------------|---------------------|
| * Adrenal Cortex                      | Subcapsular  | Hyperplasia                  | Mild                |
| * Brain                               |              | Mineral                      | Minimal             |
| * Harderian Gland                     |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Kidney                              |              | Infarct                      | Mild                |
|                                       | Interstitium | Infiltration Cellular        | Lymphocyte, Mild    |
| * Liver                               |              | Infiltration Cellular        | Lymphocyte, Minimal |
| * Ovary                               |              |                              |                     |
| Note: One ovary examined.             |              |                              |                     |
| * Parathyroid Gland                   |              |                              |                     |
| Note: One parathyroid gland examined. |              |                              |                     |
| * Salivary Glands                     |              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Spleen                              |              | Extramedullary Hematopoiesis | Minimal             |
| * Urinary Bladder                     |              | Infiltration Cellular        | Lymphocyte, Mild    |
| * Uterus                              |              | Dilation                     | Moderate            |
|                                       | Endometrium  | Hyperplasia                  | Cystic, Minimal     |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20105 - 78

**Test Type:** CHRONIC

**Route:** Whole Body Exposure

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

**CAS Number:** CELLPRADGSM

**Date Report Requested:** 10/20/2017

**Time Report Requested:** 13:43:11

**First Dose M/F:** 06/18/12 / 06/18/12

**Lab:** IIT

---

**ANIMAL ID:** 829

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 746

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-829

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilation TGLs = 1-16 ]

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

---

**ANIMAL ID:** 830

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 752

**DOSE:** 10 W/kg

**DISP:** Terminal Sacrifice

**HISTO:** 12-5117-830

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Hair Follicle	Atrophy	Mild
[ Atrophy TGLs = 1-19 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 3-12, 4-12 ]			
* Urinary Bladder		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 2-16 ]			

---

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 831

TRT#: 8

SEX: Female

DAY ON TEST: 744

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                             |                             |                          |
|----------------------------|-----------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Aorta                     | * Bone                      | * Bone Marrow            |
| * Brain                    | * Brain Trigeminal Ganglion | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Gallbladder               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum   | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic        | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric    | * Mammary Gland             | * Nose                   |
| * Ovary                    | * Pancreas                  | * Peripheral Nerve, Sciatic | * Salivary Glands        |
| * Skeletal Muscle          | * Skin                      | * Spinal Cord               | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                    | * Thyroid Gland             | * Trachea                |

MISSING

- |                    |                     |                   |
|--------------------|---------------------|-------------------|
| * Nerve Trigeminal | * Parathyroid Gland | * Pituitary Gland |
|--------------------|---------------------|-------------------|

OBSERVATIONS

- |                                    |                             |                       |                     |
|------------------------------------|-----------------------------|-----------------------|---------------------|
| * Adrenal Cortex                   | Subcapsular                 | Hyperplasia           | Mild                |
| * Clitoral GI                      |                             |                       |                     |
| Note: One clitoral gland examined. |                             |                       |                     |
| * Harderian Gland                  |                             | Infiltration Cellular | Lymphocyte, Mild    |
| * Kidney                           | Interstitial                | Infiltration Cellular | Lymphocyte, Minimal |
| * Spleen                           |                             | Hyperplasia           | Lymphoid, Mild      |
| * Urinary Bladder                  |                             | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus                           |                             | Dilation              | Marked              |
|                                    | Endometrium                 | Hyperplasia           | Cystic, Moderate    |
|                                    | [ Dilation TGLs = 1-16 ]    |                       |                     |
|                                    | [ Hyperplasia TGLs = 1-16 ] |                       |                     |

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 832

TRT#: 8

SEX: Female

DAY ON TEST: 751

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla           | * Aorta                   | * Bone                      | * Bone Marrow            |
| * Brain Trigeminal Ganglion | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder               | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric    | * Mammary Gland           | * Nose                      | * Ovary                  |
| * Pancreas                  | * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Salivary Glands           | * Skeletal Muscle         | * Skin                      | * Spinal Cord            |
| * Spleen                    | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland             | * Trachea                 |                             |                          |

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- |                              |              |                       |                     |
|------------------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex             | Subcapsular  | Hyperplasia           | Mild                |
| * Brain                      |              | Mineral               | Mild                |
| * Kidney                     | Interstitium | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver                      |              | Fatty Change          | Mild                |
|                              |              | Infiltration Cellular | Lymphocyte, Minimal |
| [ Fatty Change TGLs = 2-19 ] |              |                       |                     |
| * Urinary Bladder            |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Uterus                     | Endometrium  | Hyperplasia           | Cystic, Moderate    |
| [ Hyperplasia TGLs = 1-16 ]  |              |                       |                     |



Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 833

TRT#: 8

SEX: Female

DAY ON TEST: 752

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-833

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant TGLs = 4-12 ]

\* Thymus

Lymphoma Malignant

\* Urinary Bladder

Lymphoma Malignant

\* Uterus

Dilation

Marked

Endometrium

Hyperplasia

Cystic, Moderate

[ Dilation TGLs = 2-16 ]

[ Hyperplasia TGLs = 2-16 ]

Animal Note: TGL 3 = NCL

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 834

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Aorta
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thymus
- \* Bone
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Bone Marrow
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex                      Subcapsular                      Hyperplasia                      Mild
- \* Clitoral GI  
    Note: One clitoral gland examined.
- \* Harderian Gland                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Kidney                      Interstitium                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Liver                      Infiltration Cellular                      Lymphocyte, Minimal
- Mesentery                      Fat                      Necrosis                      Moderate
- [ Necrosis    TGLs = 2-19 ]
- \* Ovary                      Follicle                      Cyst
- Note: One ovary examined.
- \* Parathyroid GI  
    Note: One parathyroid gland examined.
- \* Salivary Glands                      Infiltration Cellular                      Lymphocyte, Minimal
- \* Uterus                      Endometrium                      Hyperplasia                      Cystic, Mild
- [ Hyperplasia    TGLs = 1-16 ]

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 838

TRT#: 8

SEX: Female

DAY ON TEST: 660

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Trachea
- \* Aorta
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Brain Trigeminal Ganglion
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Skin
- \* Thyroid Gland

MISSING

- \* Nerve Trigeminal

OBSERVATIONS

- \* Adrenal Cortex
  - Subcapsular
  - Histiocytic Sarcoma
  - Hyperplasia
  - Mild
- \* Adren Medulla
  - Note: One adrenal medulla examined.
- \* Bone Marrow
  - Histiocytic Sarcoma
- \* Brain
  - Mineral
  - Mild
- \* Gallbladder
  - Histiocytic Sarcoma
- \* Harderian Gland
  - Histiocytic Sarcoma
- \* Heart
  - Histiocytic Sarcoma
- \* Kidney
  - Histiocytic Sarcoma
- \* Liver
  - Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 5-12, 6-12, 7-12, 6-19 ]
- \* Lung
  - Histiocytic Sarcoma
- Lymph Node
  - Hemorrhage
  - Histiocytic Sarcoma
  - Moderate
  - [ Hemorrhage TGLs = 4-20 ]
  - [ Histiocytic Sarcoma TGLs = 3-20, 8-21 ]
- \* Lymph Node, Mandibular
  - Histiocytic Sarcoma
- \* Lymph Node, Mesenteric
  - Histiocytic Sarcoma
- \* Mammary Gland
  - Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

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ANIMAL ID: 838

TRT#: 8

SEX: Female

DAY ON TEST: 660

DOSE: 10 W/kg

DISP: Moribund Sacrifice

HISTO: 12-5117-838

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ORGAN AND ACCOUNTABLE SITE STATUS

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* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Skeletal Muscle		Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 2-12 ]		
* Thymus		Histiocytic Sarcoma	
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

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Experiment Number: 20105 - 78

Test Type: CHRONIC

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 10/20/2017

Time Report Requested: 13:43:11

First Dose M/F: 06/18/12 / 06/18/12

Lab: IIT

ANIMAL ID: 839

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 10 W/kg

DISP: Terminal Sacrifice

HISTO: 12-5117-839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain Trigeminal Ganglion
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Peripheral Nerve, Sciatic
- \* Spinal Cord
- \* Thyroid Gland
- \* Aorta
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Skeletal Muscle
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skin
- \* Thymus

MISSING

- \* Nerve Trigeminal
- \* Parathyroid Gland

OBSERVATIONS

- |                   |              |                       |                     |
|-------------------|--------------|-----------------------|---------------------|
| * Adrenal Cortex  | Subcapsular  | Hyperplasia           | Mild                |
| * Brain           |              | Mineral               | Minimal             |
| * Harderian Gland |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Kidney          | Interstitium | Infiltration Cellular | Lymphocyte, Mild    |
| * Pancreas        |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Salivary Glands |              | Infiltration Cellular | Lymphocyte, Mild    |
| * Spleen          |              | Hyperplasia           | Lymphoid, Mild      |
| * Urinary Bladder |              | Infiltration Cellular | Lymphocyte, Minimal |
| * Uterus          |              | Dilation              | Moderate            |
|                   | Endometrium  | Hyperplasia           | Cystic, Moderate    |
- [ Dilation TGLs = 1-16 ]  
 [ Hyperplasia TGLs = 1-16 ]

\*\*\* END OF REPORT \*\*\*