

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM
CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017
Time Report Requested: 11:05:01
First Dose M/F: 09/06/10 / 09/06/10
Lab: IIT

Revised Final_Mice (GSM)

NTP Study Number: C20105
Lock Date: 11/06/2014
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 07/27/2016

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF CELL PHONE RADIATION: GSM

FEMALE MICE

Organ

Ovary

Morphology

Necrosis

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Adrenal Cortex				
Accessory Adrenal Cortical Nodule				
<hr/>				
LESION RATES				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	P=0.227N
COCH-ARM / FISHERS	P=0.107N	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.066N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Adrenal Cortex: Fat				
Accessory Adrenal Cortical Nodule				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.247N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz

Epididymis: Duct
Exfoliated Germ Cell

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.247N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Harderian Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Kidney				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	29 (T)
STATISTICAL TESTS				
POLY 3	P=0.186	(e)	(e)	P=0.500
POLY 1.5	P=0.186	(e)	(e)	P=0.500
POLY 6	P=0.186	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.183	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.078	(e)	(e)	P=0.158

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Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Kidney				
Nephropathy Chronic Progressive				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	29 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.500	(e)	P=0.500	(e)
POLY 1.5	P=0.500	(e)	P=0.500	(e)
POLY 6	P=0.500	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.500	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.239	(e)	P=0.158	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
<hr/>				
Liver Inflammation Focal				
<hr/>				
LESION RATES				
OVERALL (a)	9/10 (90%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
POLY-3 RATE (b)	9/10.00	0/0.00	0/0.00	10/10.00
POLY-3 PERCENT (g)	90%	0%	0%	100%
TERMINAL (d)	9/10 (90%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.247	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
<hr/>				
Liver Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.247N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Parathyroid Gland Cyst				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	29 (T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.247	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
<hr/>				
Parathyroid Gland				
Ectopic Thymus				
<hr/>				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.247N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Preputial Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	20%	0%	0%	30%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.365	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.310

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Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Salivary Glands				
Infiltration Cellular Mixed Cell				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	29 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.247	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz

Stomach, Glandular: Glands
Cyst

LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz

Testes: Bilateral, Germ Cell Degeneration

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.598	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=1.000

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz

Testes: Germ Cell
Degeneration

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.598	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=1.000

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Urinary Bladder				
Infiltration Cellular Lymphocyte				
<hr/>				
LESION RATES				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.338N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.274N

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Males			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Urinary Bladder				
Infiltration Cellular Mixed Cell				
<hr/>				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.247N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Adrenal Cortex				
Accessory Adrenal Cortical Nodule				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz

Adrenal Cortex: Fat
Accessory Adrenal Cortical Nodule

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	29 (T)

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.247	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Harderian Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	29 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.247N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Kidney				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Kidney				
Nephropathy Chronic Progressive				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
<hr/>				
Liver Inflammation Focal				
<hr/>				
LESION RATES				
OVERALL (a)	10/10 (100%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	0/0.00	0/0.00	10/10.00
POLY-3 PERCENT (g)	100%	0%	0%	100%
TERMINAL (d)	10/10 (100%)	0/0 (0%)	0/0 (0%)	10/10 (100%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Cell Phone Radiation: GSM
CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017
Time Report Requested: 11:05:01
First Dose M/F: 09/06/10 / 09/06/10
Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
<hr/>				
Liver Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Ovary				
Necrosis				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	29 (T)	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	P=0.091	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)
COCH-ARM / FISHERS	P=0.507N	P=0.091	(e)	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Parathyroid Gland Cyst				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
<hr/>				
Parathyroid Gland				
Ectopic Thymus				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	29 (T)
<hr/>				
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.247	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Salivary Glands				
Infiltration Cellular Mixed Cell				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11
 Test Type: 28-DAY
 Route: Whole Body Exposure
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Stomach, Glandular: Glands Cyst				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.598	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=1.000

Experiment Number: 20105 - 11
 Test Type: 28-DAY
 Route: Whole Body Exposure
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Urinary Bladder				
Infiltration Cellular Lymphocyte				
LESION RATES				
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	30%	0%	0%	40%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	29 (T)	---	---	29 (T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.377	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.325

Experiment Number: 20105 - 11
Test Type: 28-DAY
Route: Whole Body Exposure
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Cell Phone Radiation: GSM

CAS Number: CELLPRADGSM

Date Report Requested: 08/17/2017

Time Report Requested: 11:05:01

First Dose M/F: 09/06/10 / 09/06/10

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 5 WEEKS**

DOSE	Females			
	0 W/kg	5 W/kg 1900MHz	10 W/kg 1900MHz	15 W/kg 1900MHz
Urinary Bladder				
Infiltration Cellular Mixed Cell				
<hr/>				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20105 - 11

Test Type: 28-DAY

Route: Whole Body Exposure

Species/Strain: MICE/B6C3F1

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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***