

## How Do I Navigate the Pop Ups and New Tabs in CEBS?

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**Answer:** This document will provide instructions on how to navigate and search within CEBS (<https://cebs.niehs.nih.gov/cebs/>).

### 1) **Navigating within CEBS**

From the CEBS homepage, the following options are available:

- Select data source, i.e., All data (default), Division of Translational Toxicology (DTT) data only, or Non-DTT data only, using the drop-down list to the left of the Search CEBS bar
- Search for studies and data using the CEBS Search bar
- Select a DTT Guided Search to find and download data in specific DTT datasets
- Select an External Data Set: filter and download data sets from sources outside of the DTT
- Select from Additional Resources for information about CEBS data, including documentation, help guides, FAQs, bulk data downloads, and access to secured private unpublished data and resources (CEBS Hub)

**a) Returning to the Homepage**

After selecting any of the above options, return to the homepage by clicking 'Chemical Effects in Biological Systems (CEBS)' in the breadcrumb links at the top of the page or by using the browser's 'Back' button

**b) Navigating Pop-Up Windows**

If a pop-up window opens (e.g. when viewing genetic toxicology study details) the screen containing the study data may have multiple tabs. Click to select the tab of interest. Navigate back to the search window or tab to return to the search results.

**c) Navigating DTT Guided Searches**

Guided searches within CEBS may allow multiple selections of search criteria. When present, use the 'Clear Selections' or 'Clear' button to remove selections. Other guided searches (e.g. Treatment-Related Findings) will preserve selections when using the browser back button. More detailed user guides for individual guided searches can be found on the CEBS Support page.

**2) Searching CEBS**

The CEBS homepage allows users to search for desired data, test articles, studies, etc. from a single search bar. Users can follow the steps below to navigate the search results, and data pages.

**a) Using the Search Bar**

The CEBS search bar appears on the CEBS homepage and remains on the search results pages with the same functionality. Type term(s) of interest in the search box and press Enter to display results for all related test articles in CEBS. The categories of search terms currently supported are listed in the Search Options table below.

**Table of Search Options**

Field	Description	Example Searches
<b>CAS Number</b>	Chemical Abstract Service Registry Number	700-06-1
<b>Test Article Name</b>	Name of test article administered to test subjects	Salicylic Acid
<b>Publication</b>	DTT publication number	TR-580, TOX-48
<b>Project</b>	DTT project or program of work	Radiofrequency radiation emissions from cellular phones
<b>Study Number</b>	Unique study identification number: CEBS accession, TDMSE or DTT study numbers	002-02223-0003-0000-4, 20203-01, C20203

**Note: Click "Example Searches" below the CEBS Search bar for more information**

### **Search Limitations**

Currently, the following searches are not fully supported using the CEBS search bar. They typically produce either zero results or a list of publications that use the term(s) in the title or abstract:

- **Assays/endpoints** – Test article searches using specific endpoints or assays, e.g., basophil count, hematology, comet, etc. Users can request help from CEBS Support at [CEBS-Support@mail.nih.gov](mailto:CEBS-Support@mail.nih.gov). to obtain results for these and other types of searches
- **Strains and Species** – Test article searches based on species or strain (e.g. hamster, B6C3F1, F344). The following guided searches however allow searching based on strain or species:
  - DTT Pathology Data
  - Organ Sites with Neoplasia
  - Treatment-Related Findings
- **Levels of Evidence** – Searches for studies or test articles based on the level of evidence or conclusion (e.g., equivocal, clear evidence). Searches for these terms are available in the guided searches on the CEBS homepage:
  - Organ Sites with Neoplasia
  - Treatment Related Findings

### **b) Searches with Multiple Results**

Searches that produce multiple results are displayed on a new page that has the following components:

- An option in the left-hand column to filter the results
- A display located above the filter options of the number of results found and the search criteria used
- An option to sort the results by: Best Match (default), Study Date, Study Count, or Publication (when included in results)
- A list of test articles with each one displaying the following information:
  - [CASRN]and DTT Test article name
  - Number of studies that tested the article (to the right of the name)
  - Year or range of years the studies were started
- Related Link(s) section showing:
  - Matched Test Article Name
  - Matched Synonyms (for test article)
  - Related Pages (e.g., report, program of work)

- DTT Data Collections that include the test article

**Note: clicking a button for Related Pages or DTT Data Collections opens the corresponding CEBS page.**

- When multiple pages of results are generated, pagination buttons to navigate the pages are displayed above and below the results pages

### **Filtering results**

The following types of filters are available to use with any search result display:

- **DTT Start Date** – Selection of one or more start date range(s) limits the results to those test articles with studies that started in the selected date range(s). The filter does not eliminate test articles with studies both within and outside of the selected start date ranges
- **DTT Study Types** – Selection of one or more study type(s) limits the results to test articles with those study types. The filter does not eliminate test articles with additional study types other than the type(s) selected. Study types are displayed in General Toxicology, Genetic Toxicology, and Other groups
- **Data** – Selection of one or more data type(s) limits the results to test articles with those data types. The filter does not eliminate test articles with additional data types other than the type(s) selected

When filters are applied, they appear beside the number of results at the top of the results list. Multiple filters selected from the same group, e.g., General Toxicology, are grouped together in parentheses and use “OR” logic. All results that have studies matching any of the selected filter options are displayed. Filters of different types (e.g., Start Date and Data) use “AND” logic and return test articles that match all selected filter types. Filters are cleared using the ‘Reset filters’ button to the right of the “Filter Results” heading.

### **c) Searches with a Single Result**

When only one result matches a search term, the corresponding CEBS test article, publication, or project page is automatically opened. The page displays all or some of the following sections depending on availability.

#### **Study Results**

DTT level of evidence, e.g., Clear Evidence, or study result, e.g., Negative, are displayed here when available. The level of evidence data are grouped by species, and the study results are group by assay type. Selecting the ‘View’ button next to a

level of evidence or result highlights the corresponding study title in the 'Study' section of the current page and automatically scrolls down the page to display the title.

### **Publications**

Citations for publications in CEBS that are related to the test article are displayed in this section. They include DTT publications, e.g., technical reports and journal articles. Select the publication number for a DTT report, e.g., TR-584, to open the CEBS publication page that contains information and data for the studies included in the publication. Links to the Abstract and Data are also included when applicable.

### **Study Data**

This section contains the list of studies that have data in CEBS and provides links to download the data files. Data are accessed by any of three options:

- Clicking a study title that has a chevron (>) preceding the title activates a dropdown list of available files
- Clicking the [DATA] button to the right of the title opens a new page with a list of available data files
- Clicking a study title that links directly to a Study page containing lists of all the available data

The data typically includes individual animal data and summary data tables in Excel or PDF files. Studies in this section are grouped by study type as indicated below:

#### **Toxicity and Carcinogenicity**

Short-term toxicity and chronic carcinogenicity studies are listed in this section. Studies are ordered with short-term studies listed before chronic studies.

#### **Genetic Toxicology**

All genetic toxicology studies, for example, Micronucleus, Ames, and Mammalian Cell Cytogenetics, are listed in this section.

#### **Other DTT**

Other DTT studies with data in CEBS are listed in this section which includes: Tox21, Immunotoxicology, Toxicogenomics, Toxicokinetics, Nematode, Zebrafish, and more.

#### **Other (Non-DTT)**

Studies in CEBS performed by institutions, laboratories or organizations other than DTT are listed in this section.

### **DTT Data Collections**

A list of different datasets that include the test article is displayed. Each dataset is accessible from the Guided Search, DTT Data Collection. Click any dataset to open it.

### **Citation Information**

Located directly below the Study Results section, this section contains the CEBS citation text that should be used when referencing data from the test article, publication, or project page.

### **Related Links**

This section contains links to other CEBS pages relating to the current page which could include one or more of the following types of links:

- Publication pages, e.g., TR-584
- Project pages, e.g., Radiofrequency radiation emissions from cellular phones
- Test article pages, e.g., Indole-3-carbinol)

## **3) Additional Instructions/Information**

- Downloading and displaying text files in Excel: Most downloads from CEBS are Excel or PDF files. On some pages, the Download Data button appears with the file type .txt or text documents. It is recommended to use Excel's data import capability (Data>Text/CSV) or the following steps to view data from text documents in Excel:
  - Open the saved text document in Notepad or your favorite text editor
  - Select all by choosing Ctrl + A (PC) or Command + A (Mac); this function will highlight the entire document
  - Right click your mouse and select copy
  - Open a new Excel document
  - Format the entire sheet as "Text". **This prevents Excel from erroneously converting some numbers to dates.**
  - Right click your mouse and select paste
  - Save as an Excel document
  - To add filtering options, navigate to the Data Tab in Excel and select Filter
- Complete instructions for citing DTT or non-DTT data in CEBS is given in the [How do I cite CEBS](#) document under FAQs on the CEBS Support page available from the 'Help' option on the CEBS Homepage

## **4) Example Searches**

The following examples demonstrate how to search for studies and related data of interest using the CEBS search bar

**a) Search for DTT Publications for Benzene**

- Type “benzene” (use quotes) in the Search CEBS box and press enter
  - All test articles with names or synonyms containing “benzene” will display with ‘[71-43-2] Benzene’ at the top
  - Click the TR-289 button in the ‘Related Pages’ section of ‘[71-43-2] Benzene’ to open the Technical Report on benzene
- Click test article ‘[71-43-2] Benzene’ to open the Benzene test article page with a list of related publications at the top of the page
- Two Publications in the list, Technical Report TR-289 and GMM-08, have links to their corresponding CEBS publication page and to the [Abstract]
- Click the TR-289 or GMM-08 report number to open the publication page. The studies with data associated with the publication are displayed
- Click the “[Abstract]” link to open the abstract for the report in a new tab that has links to the full report and to the data

**b) Searching Data for a Test Article by Study Number**

- Type C20203 (no quotes; it’s a unique number) in the Search CEBS box and press enter
- The test article page for Green Tea Extract, which is associated with this study number, will display
- Review the list of individual studies in the ‘Study Data’ section and select the study of interest, e.g., “Evaluation of the Chronic Toxicity and Carcinogenicity (C20203) of Green Tea Extract (GREENTEAEXTR) in Wistar Han Rats Exposed via Gavage” in the ‘Toxicity and Carcinogenicity’ sub-section
- Click the study title to display a drop-down list of all available study data
- Click the file name(s) below ‘Study Tables’ or ‘Individual Animal Data’ for the desired data type to download the file(s)