

J & J Codelink Data Help

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Function

The J & J Codelink Data workflow stores microarray data from Johnson & Johnson (J&J) test articles. The results of this dataset are the gene expression values for the specified Unigene(s) for each test article / organ. This tutorial details how to use the J & J Codelink Data guided search to:

- Filter options for comparisons based on compound, organ, and a Unigene ID List
- Filter options for all available compounds and organs based on a Unigene ID List

From the CEBS Homepage (<http://tools.niehs.nih.gov/cebs3/ui/>), select the 'J & J Codelink Data' icon under Workflows

1) Filter Options for Comparisons

- a) Select the desired compound from the dropdown (only 1 test article can be selected at a time)
- b) Select the desired organ from the organ dropdown

Note: Selecting a compound and/or organ is not required to proceed to results.

To clear values select the blank value in the drop down or select 'Reset Values' next to Filter.

2) Filter Options for Genes

- a) Input the desired Unigene ID's separated by a comma.

Note: If you do not know your Unigene IDs, select 'Example Unigene Ids' for a list of 20 example Unigenes or visit NCBI to search for your Unigene IDs,

<http://www.ncbi.nlm.nih.gov/unigene>.

Unigene IDs are required to proceed to results.

- b) Select Filter when finished.

3) Results

- a) The next screen will show a table with the results of your search. Details about the columns of the results are in the table below.
- b) At this point, data can be downloaded by selecting the download icon (see [Additional Instructions](#) for download instructions).
- c) You may return to the filter screen by selection 'Filter' button.

J&J Codelink Data Results Column Descriptions:

Field	Description
Probe ID	The ID number of the probe corresponding with the entered search criteria and Unigene ID(s)
Probe Type	The type of probe used. The following probe types are possible: <ul style="list-style-type: none"> • DISCOVERY – Gene expression testing probe • POSITIVE – Positive control probe • NEGATIVE – Negative control probe • FIDUCIAL – Grid alignment probe • OTHER – Other controls and housekeeping gene probes
Target	Target type of the probe. The following targets are possible: <ul style="list-style-type: none"> • SINGLE – The probe maps to a single target sequence • DUPLICATE – More than one probe targets this sequence • MULTIPLE – The probe maps to multiple target sequences • CONTROL – The probe targets a control
Unigene ID	The Unigene ID entered by the user on the Filter page relating to the Probe ID
Expression Results	Column header provides information about the sample test article (test article name and dose) and organ specified on the Filter page as well as the study ID number (G#####). This column contains the level of expression for that Probe/Unigene ID.

4) Example Section

In this section, we will detail examples of how to use the J&J Codelink Data. These examples should give you an idea of the types of questions that can be answered with the J&J Codelink Data Workflow.

a) Example 1: Acetophenetidin with Unknown Unigene IDs

For this example, we will use Acetophenetidin to search for genetics data for liver. We will assume that the Unigene IDs are unknown. We will also download the data for future access.

- 1) From the compound dropdown, find and select Acetophenetidin
- 2) From the organ dropdown, find and select Liver
- 3) Select 'Example Unigene IDs' and click Filter
- 4) The next screen should be a table containing the results.
- 5) At the top of the page, click the download icon (see [Additional Instructions](#) for full download instructions).

b) Example 2: Acetophenetidin with Known Unigene IDs

For this example, we will use the same test article but we will assume that Unigene IDs are known. We will use Unigene IDs Rn.2148 and Rn.95274

- 1) From the compound dropdown, find and select Acetophenetidin
- 2) From the organ dropdown, find and select Liver
- 3) In the Unigene ID List, enter Rn.2148, Rn.95274. (Individual Unigene IDs must be separated by a comma)
- 4) The next screen should be a table containing the results.
- 5) To download data, click the download icon (see [Additional Instructions](#) for full download instructions)

5) Additional Instructions and Information

- 1) 'CEBS Home' icon returns the user back to the CEBS Home page
- 2) Downloading and displaying data
 - o Select the Download Data Icon
 - o The next screen displays available locations to save data
 - o Once a location has been determined, select Save
 - o To access the data, go to the location where the data was saved
 - o You will notice that the data is saved in text format
 - o Open in Notepad or your favorite text editor
 - o Select all by choosing Ctrl + A or Command + A on a Mac. This function will highlight the entire document.
 - o Right click your mouse and select copy
 - o Open Excel
 - o Right click your mouse and select paste
 - o Save as an Excel document
 - o To add filtering options, navigate to the Data Tab and select Filter

- 3) Flash movie running flex code for CEBS indicates a software platform is being used to create graphics or texts for CEBS
- 4) Data may be cited by clicking on the [Citing CEBS](#) icon at the bottom of the CEBS homepage. Here, instructions can be found on citing NTP Data as well as non-NTP data in CEBS.