GeneWeaver.org
A system for the integration of functional genomics experiments.

Quick-Start Reference

1 UPLOAD GENE SETS

Go to **Manage GeneSets ▼** and select "Upload GeneSet."

Describe your data

Upload or paste in your gene list

GeneSet Metadata
Please enter some descriptive info about this GeneSet.

GeneSet Name*:

GeneSet Figure Label*:

GeneSet Description*:

Access Restrictions*: Private Public

Gene List
Provide a list of genes to associate with the descriptive info from above.

Species: -- please select --

Gene Identifiers: -- Auto-detect --

Input Gene List*: Have a text file already handy? Switch to file upload

Click on ← **Under "Reference Info" enter a PubMed ID if available**

Upload GeneSet

SEARCH FOR GENE SETS

Locate the search tool on the home page or via the Search ▼ **tab.**

Search Gene Weaver for any gene symbols, microarray probesets, terms in phenotype description, publication abstracts or authors, etc.
We've updated our search tools. Please be sure to clear your browser (shift-Reload) to enable these features.

Search in: ☑ GeneSets ☑ Genes ☑ Abstracts ☑ Ontologies — ➕ 🔍 Search

- **Limit search fields by GeneSet, Genes, Abstract or Ontologies.**

- **After results are retrieved you can further refine by curation tier, species or attribution**

OR

2 CREATE PROJECTS

- **Check box beside gene sets of interest.**

- **Create a new project or add gene sets to an existing project using the menu:**

  Add Selected to Project ▼

- **Search for more gene sets and add them to your projects. Locate projects on the** Analyze GeneSets ▼ **page, or** Analyze ▼ **directly from the results page.**

OR

PROJECTS AND TOOLS

View your gene sets on the "Analyze Genesets" page, rename or delete them. Select projects or sets and analyze.

My Projects & Tools

☐ **CEREBELLUM - 10 GeneSets** ✚Show Rename   🗑Delete
☐ **Cocaine_addiction - 8 GeneSets** ✚Show Rename   🗑Delete
☐ **Hypothalamus - 19 GeneSets** ✚Show Rename   🗑Delete
☐ **INIA - 4 GeneSets** ✚Show Rename   🗑Delete
☐ **Nicotine_addiction - 9 GeneSets** ✚Show Rename   🗑Delete
☐ **Stress - 9 GeneSets** ✚Show Rename   🗑Delete

3 ANALYZE GENE SETS

Under Analyze GeneSets ▼ **click on one of the following tools.**
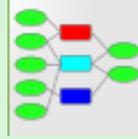
HiSim Graph
Biclique-based analysis is used to generate hierarchical maps of gene set interactions

Jaccard Overlap
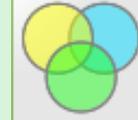This tool computes the Jaccard Coefficient (a measure of similarity) for multiple genesets.

GeneSet Clustering
Jaccard Distance (a measure of dissimilarity) is used to cluster GeneSets

GeneSet Graph
Visualize the Gene-GeneSet graph.

ABBA Gene-Centered Search
Find the genes most closely associated with your gene(s) of interest.

Boolean Algebra
Use advanced set logic to integrate multiple GeneSets

Combine GeneSets
Advanced tool to combine multiple GeneSets into a single association matrix
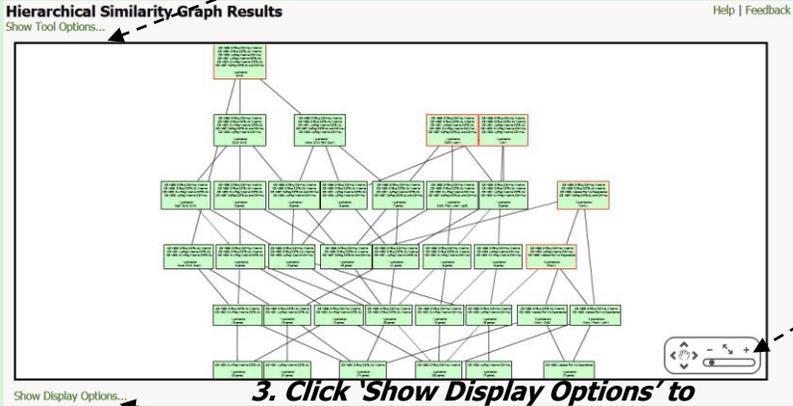
4 INTERPRETE AND ANNOTATE RESULTS

Click on any gene set interaction to:
- A. See the genes it contains and link out.
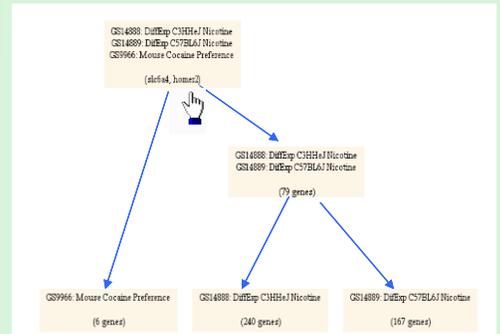- B. Modify and export your result.

A

1. Select a node

2. Choose external link

3. View result

B

1. Click 'Show Tool Options' to alter levels or number of genes displayed.

Hierarchical Similarity Graph Results
Show Tool Options...
Help | Feedback

Show Display Options...

2. Zoom in, out or pan the graph.

3. Click 'Show Display Options' to highlight genes or export as a PDF, SVG or PNG.
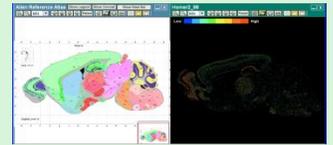
5 USER GROUPS AND SHARING DATA

USER GROUPS

Welcome, Guest
Register | Login

To store projects in GeneWeaver , users must first create an account by providing a user name and password.

AVAILABILITY

Availability*: ● Public: ○ Private: ● Group: ○

When uploading gene sets onto GeneWeaver (Step 1), users have the option of making gene sets public, private or available to only members of a specific group.

SET UP A GROUP

Welcome, Sonia
Account & Groups | Logout
Profile

Manage Groups

Group Name	Actions
StephensLab	[admin] [leave]
Stress	[admin] [leave]
Addiction	[admin] [leave]
Autism	[admin] [leave]
Group:	Join Create

If you are a registered user on GeneWeaver, you can create groups on the Accounts & Groups page. A list of your groups is shown. Enter the new group name and hit "Create." Click on [admin] to modify groups that you administer. You may use this tool to add members or assign additional administrator privileges. Click [leave] to exit a group. Click on [list] to see the other members of groups that you belong to.

MORE INFORMATION

See "Introduction to GeneWeaver" at **http://www.geneweaver.org/**.
See GeneWeaver "Interactive Help" at **http://www.geneweaver.org/**.
See GeneWeaver "Wiki" at **http://www.geneweaver.org/wiki.**

Scan the QR code to take a tour of the site or submit your data with 'Manage Gene Sets'.

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