

This is a Quick Start Guide of **GeneWeaver.org** designed to highlight the use of major tools. Additional explanations, tools, features and usage can be found in our full **Tutorial**. You can download a pdf version of the document **File:GeneWeaverquickstart2014.pdf** here.

## 1 UPLOAD GENE SETS

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

**Describe your data**

GeneSet Metadata

Please enter some descriptive info about this GeneSet.

GeneSet Name\*\*:

GeneSet Figure Label\*\*:

GeneSet Description\*\*:

Access Restrictions\*\*:

**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

**Upload or paste in your gene list**

Click on **Upload GeneSet** ←

Under "Reference Info" enter a PubMed ID if available

## 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

Step One

## 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.

## 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

<input type="checkbox"/>	CEREBELLUM - 10 GeneSets	<a href="#">Show</a>	<a href="#">Rename</a>	<a href="#">Delete</a>
<input type="checkbox"/>	Cocaine_addiction - 8 GeneSets	<a href="#">Show</a>	<a href="#">Rename</a>	<a href="#">Delete</a>
<input type="checkbox"/>	Hypothalamus - 19 GeneSets	<a href="#">Show</a>	<a href="#">Rename</a>	<a href="#">Delete</a>
<input type="checkbox"/>	INIA - 4 GeneSets	<a href="#">Show</a>	<a href="#">Rename</a>	<a href="#">Delete</a>
<input type="checkbox"/>	Nicotine_addiction - 9 GeneSets	<a href="#">Show</a>	<a href="#">Rename</a>	<a href="#">Delete</a>
<input type="checkbox"/>	Stress - 9 GeneSets	<a href="#">Show</a>	<a href="#">Rename</a>	<a href="#">Delete</a>


Step Two

1

### 3 ANALYZE GENE SETS

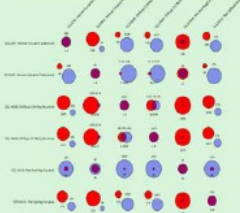
Under **Analyze GeneSets** click on one of the following tools.

#### Phenome Map



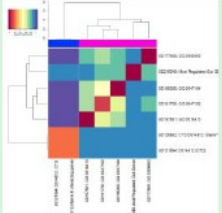
Uses intersections of multiple gene sets to create a hierarchy of gene-phenotype associations.

#### Jaccard Similarity



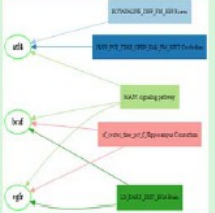
Shows matrix of pair wise gene set similarity and Venn Diagrams of set relations.

#### Clustering



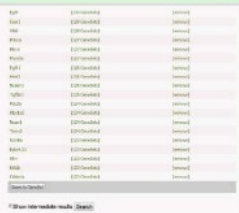
Uses Jaccard distances to cluster gene sets.

#### GeneSet Graph



Navigate a gene-phenotype network among gene sets.

#### ABBA



Find the genes most closely associated with your genes of interest.

Step Three

### 4 INTERPRETE AND ANNOTATE RESULTS

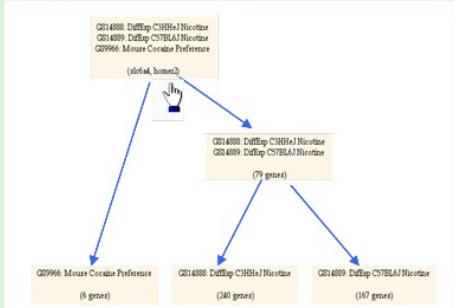
**A** Click on any gene set interaction to:

- A. See the genes it contains and link out.
- B. Modify and export your result.

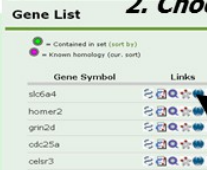
**B**

1. Click 'Show Tool Options' to alter levels or number of genes displayed.
2. Zoom in, out or pan the graph.
3. Click 'Show Display Options' to highlight genes or export as a PDF, SVG or PNG.

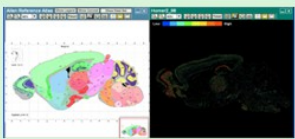
**1. Select a node**



**2. Choose external link**



**3. View result**



Step Four

## 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.

## 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: <input type="text"/>	[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.

## 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.

## Step Five

## 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>.

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