

1) A robust internet browser such as Chrome (Internet Explorer is not recommended). Firefox and Safari are also fine.

2) Install **Cytoscape 3.3.0**: <http://chianti.ucsd.edu/cytoscape-3.3.0/>.

Choose the version corresponding to your operating system (OS, Windows or UNIX)

(**Do not** install or do not use the latest version Cytoscape 3.4.0)

Cytoscape requires **Java8**: check your version

at <https://www.java.com/verify/> and download Java8 if you do not have it installed. Contact your system administrator if you have trouble with Java installation.

3) Within the Cytoscape program, install the following Cytoscape apps.

From the menu bar, select 'Apps' , 'Manage Apps'.

Within all apps, Search for the following and install:

EnrichmentMap

WordCloud

AutoAnnotate

clusterMaker2

GeneMania

ReactomeFIPlugin

Iregulon 1.3

4) Install the data set within GeneMANIA.

Select GeneMania from Apps Manager and Choose Another Data Set.

From the list of available data sets, select the most recent (2014-08-12/1 June 2014) and under 'Include only these networks': select 'all'. Click on 'Download'.

An 'Install Window' will pop-up. Select H.Sapiens Human (2384 MB). Click on 'Install'

This requires time and a good network connection to download completely, so be patient (around 15mins).

5) Install GSEA.

Go to the GSEA page:

<http://www.broadinstitute.org/gsea/index.jsp>

Register

Login

In menu, choose Downloads

Go to the javaGSEA Java Jar file section and download the gsea2-2.2.2.jar file and save in your Documents folder (do not leave it in the "Downloads" folder).

To run GSEA during the workshop, you must use the command line. You will need to open a terminal and execute the install commands. Since we will need to run GSEA this same way each time, it will be a good idea to save this information on how to run GSEA.

(MAC/Linux Computer)

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On a MAC, the Terminal window is located in Applications/Utilities. Tip: add the terminal window to your dock so it is easy to open when needed.

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At the prompt, type the command in your terminal window and hit enter:

```
java -Xmx2G -jar ~/Documents/gsea2-2.2.2.jar
```

(PC/Windows Computer)

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On Windows, go to the start icon and type cmd (for command prompt) in the search box.

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At the prompt, type the following commands, hitting enter in between each command and waiting for the prompt before the next command:

```
cd Documents
```

```
java -Xmx2G -jar gsea2-2.2.2.jar
```

6) A PDF viewer (Adobe Acrobat or equivalent).