Panorama: Clustergrammer Heat Maps

Clustergrammer is a free visualization service and open source project provided by the Ma'ayan Lab at the Icahn School of Medicine at Mount Sinai. LabKey has leveraged their APIs to generate heat maps for TargetedMS expression matrices using the free web service version of Clustergrammer. The basics for the desired usage is to look for up-regulated or down-regulated proteins, via their constituent peptides, in targeted mass spec data.

To use the tool, the user navigates to a LabKey folder which has TargetedMS runs upload, selects the runs of interest, and initiates the Clustergrammer heat map generation tool from the 'Clustergrammer Heatmap' button on the data grid button bar. One thing to note is that this tool is third-party and any data/heat-maps are publicly accessible.

Technologies Used

- Data source: runs uploaded to TargetedMS assay
- Code location: TargetedMS module in the LabKey subversion repository
- Tools/packages: Clustergrammer web service version (built using JavaScript D3.js library)
- Features: selection of subsets of runs to be included; heat map allows zoom, pan, reorder, search, and filter
- Accessibility: link report viewable from Data Views webpart
- **Developer(s):** Ian Sigmon, LabKey



