Team Brovine - Application Documentation

Our application is web based and does not require installation on client machines.

Our application is broken up into a series of pages accessible via the navigation bar at the top of the page. The pages are as follows:

1) Upload: The “SELECT FILES” button allows you to upload one or multiple files into the database. Uploaded files are shown in the “Uploaded Files” table, and remaining files are shown on the left-hand side of the page. The “Clear All Data” button clears all the data in the database.

2) Experiment Hierarchy: This page allows the user to drill down from Species to a Regulatory Sequence. Once a Regulatory Sequence is selected, its sequence info is displayed as well as any similar sequences and matching factors. There are also buttons to edit the data and hide any unwanted data. Unwanted data can be shown if the “Show Hidden Entries” check box has been checked.

3) Gene Summary: This page displays a table of all the genes in the database. When a gene is selected, its information is displayed as well as all experiments containing this gene are displayed.

4) Transcription Factor Summary: This page displays a list of all the transcription factors in the database. When a transcription factor is selected a list of all occurrences of that factor are displayed.

5) Gene Search: This page allows users to drill down from species to experiments, populating the transcription factor table based on the selected criteria. Once a transcription factor is selected the genes related to it are displayed. A gene can be selected to display all of the comparisons that gene is part of.

6) TF Popularity: This page allows users to select one or more species, comparisons and experiments. A list of all transcription factors matching that criteria are displayed. When a transcription factor is selected, all occurrences of that transcription factor are displayed.