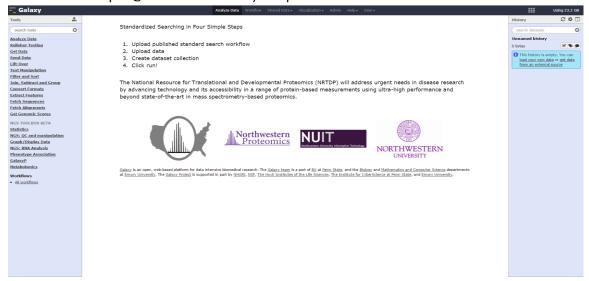
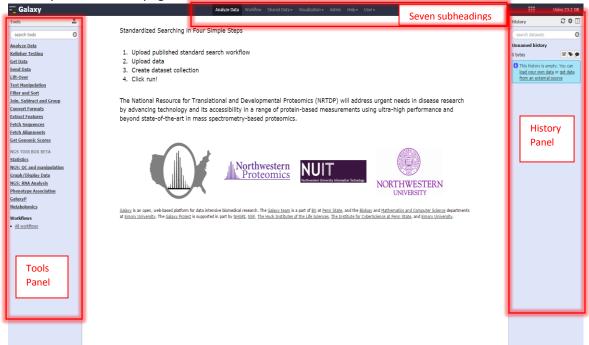
Guide for Performing High Throughput Searches on Quest with Galaxy

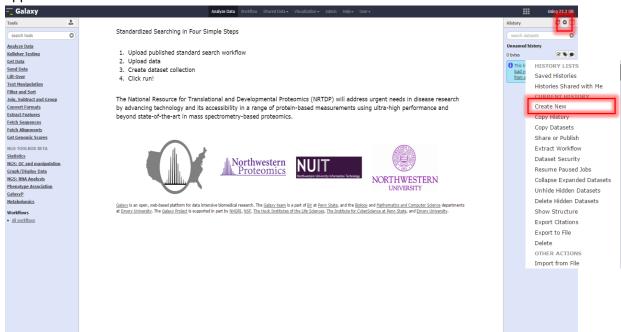
1. Log into galaxy at: http://galaxy.kelleher.northwestern.edu/ using your Northwestern email (e.g alexandra.vannispen@northwestern.edu) and password.



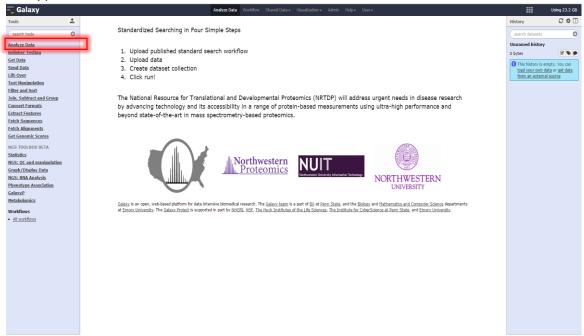
2. Orient yourself on the page.



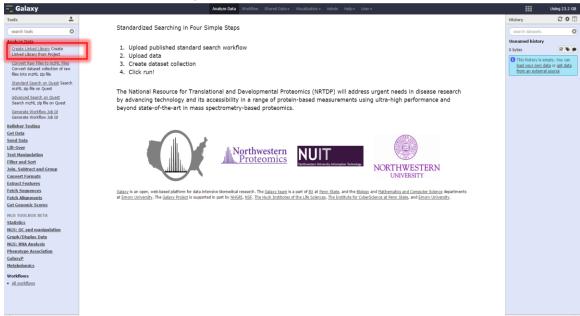
- a. There are seven subheadings that link to different pages.
- b. The History Panel is on the right. When data is uploaded/analysis is performed, each output generates a dataset. These datasets are stored by Galaxy in the History Panel.
- c. All of the available tools are located in the blue Tools Panel on the left.
- 3. Create a new history. Go to the history column and click on the . A drop down menu will appear. Click on "Create New."



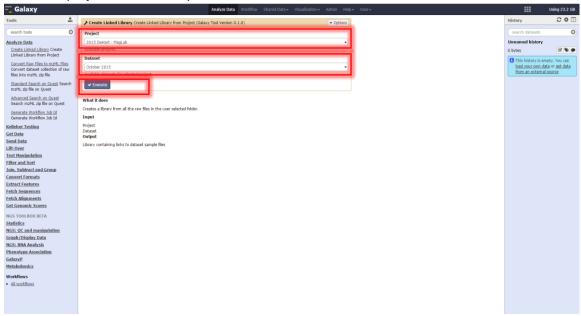
4. Go to Tools Panel and click on "Analyze Data." A menu containing all the available NRTDP tools will appear.



5. Click on "Create a Linked Library."



6. Select the project and dataset you would like to search. Click "Execute."



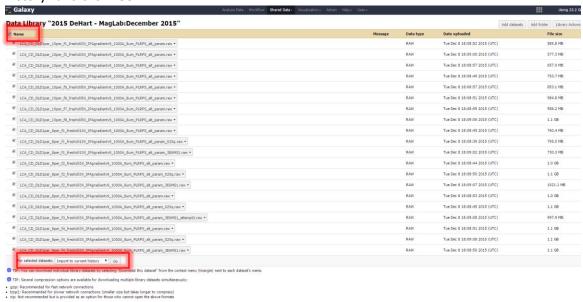
7. Click on the "Shared Data" subheading and "Data Libraries" (indicated by the red box) to view available linked library.



8. The Data Libraries screen displays available data libraries. Click on the desired data set library.



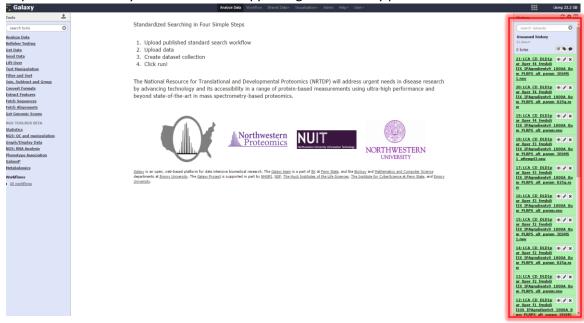
9. Once you click on the data library you will move to a screen that lists the dataset raw files. Select files to import to history by checking their checkboxes. If you would like to select all the files check the square button next to "Name" at the top of the page. At the bottom of the page there is a "For selected datasets" dropdown menu. Set the dropdown next to "Import to current history" and click "Go."



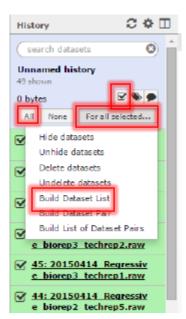
10. You will get this confirmation.



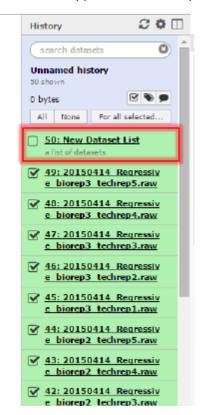
11. Return to home page so you can view your history by clicking on the Galaxy Icon at the top of the page. You will notice that your history has been populated with green boxes. A successful import is indicated by the selected files appearing in the history panel.



- 12. Next create the dataset list. To do this, move to the History Panel.
 - a. Click on the checkbox.
 - b. Check all the imported raw files
 - c. Click For All Selected
 - d. Select Build Dataset List



13. A new dataset collection will appear in the History Panel



14. Navigate to Shared Data. Click on "Published Workflows" in the drop down menu. Import Published Standard Search Workflow 1.1.0 if you do not already have it by clicking on the down arrow of the "Standard Search Workflow Version 1.1.0" tab.



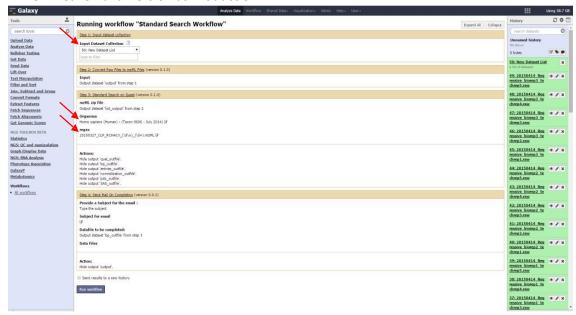
15. Click "Workflow" subheading.



16. Click "Run" in Standard Search Workflow Version 1.1.0 dropdown.



- 17. Input search parameters and click "Run Workflow."
 - a. Select Dataset list just created.
 - b. Select Organism to be searched.
 - c. Insert regex provided by an administrator.
 - d. Resolution
 - e. Leave Build Version as Production



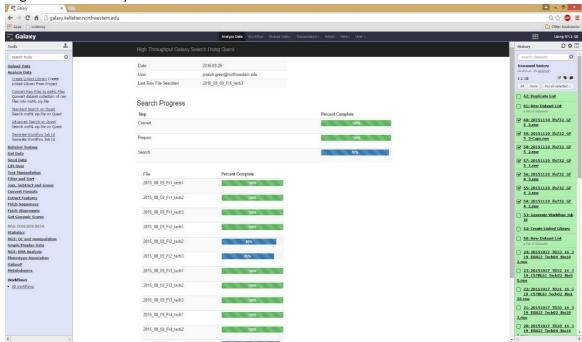
18. Search will be added to History Panel.



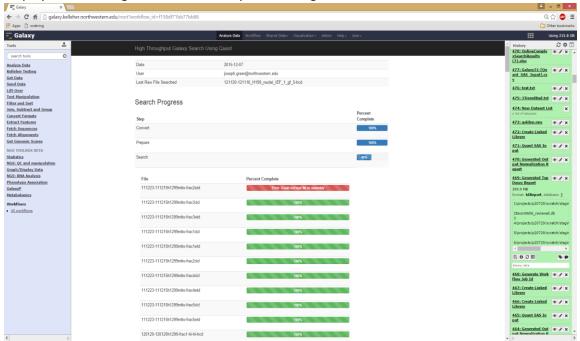
19. Monitor Search progress by clicking on check progress button in History Panel item.



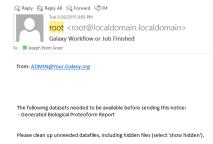
20. Page refreshes every 30 seconds.



21. Display errors during search with descriptive message.



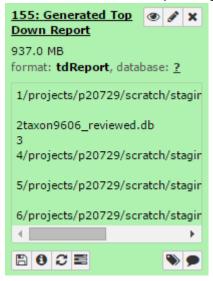
22. You will receive an email when the search completes.



23. The History Panel items will turn green when the search completes.



24. Download search results by clicking "download" button.



25. Open results in TD Viewer (http://proteinaceous-apps.azurewebsites.net/TopDownViewer)