

Krona Visualisation in Galaxy Australia

Quick Start Guide

for

Bioplatforms Data Portal Users



If you're already an existing user of Galaxy Australia start at step
#7
otherwise start at step #1

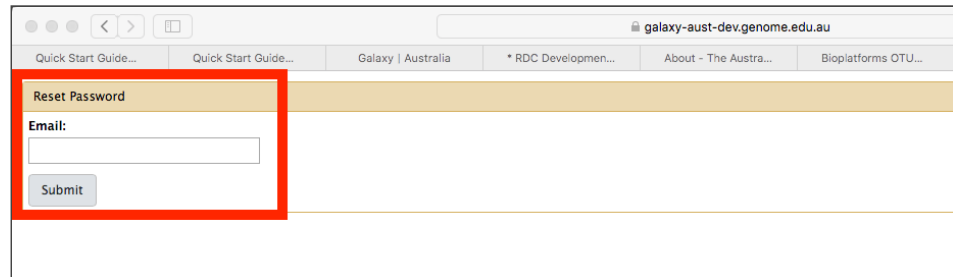
1. The first time you request a Krona visualisation, an account will be made for you on Galaxy Australia

Click on the link shown in the red box to set your own Galaxy password.

A screenshot of the Galaxy Australia web interface. The browser address bar shows "bpa-staging.ccgapps.com.au". The page has a navigation bar with links like "Quick Start Guide", "Galaxy | Australia", and "About - The Australian...". Below the navigation bar, there are search filters for "Genus" and "Species", both set to "is". A "Search" button is present. Below the search bar, there are links for "Show results on Map", "Export Data to Galaxy Australia for further analysis", "Export Search Results (CSV)", and "Export Search Results (BIOM)". A blue banner at the top of the main content area says "Submission to Galaxy in Progress ...". Below that, a green banner says "If you are new to Galaxy Australia, please see this [Getting started guide](#)". A red box highlights a message: "An account has been created for you on Galaxy Australia. Please [reset your password](#), using the same email address you have registered with the Bioplatforms Data Portal." Below this, there is a table with two columns: "BPA Sample ID" and "BPA Project". The table contains 8 rows of data, all with "Soil" as the BPA Project.

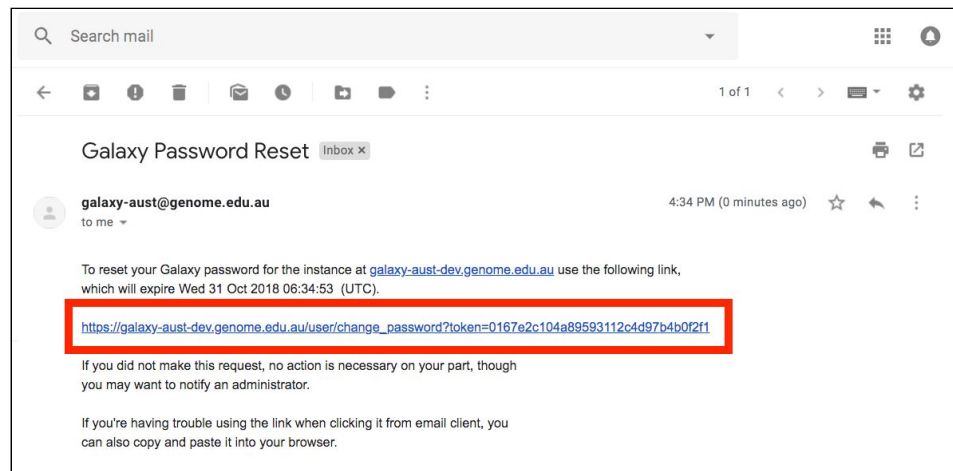
BPA Sample ID	BPA Project
7827	Soil
7828	Soil
7831	Soil
7832	Soil
7837	Soil
7838	Soil
7839	Soil
7840	Soil

2. You are taken to Galaxy Australia. Enter your email address and press 'Submit'



The screenshot shows a web browser window with the address bar displaying 'galaxy-aust-dev.genome.edu.au'. The browser's tab bar shows several tabs, including 'Quick Start Guide...', 'Galaxy | Australia', and '* RDC Developmen...'. The main content area features a 'Reset Password' form. The form has a title 'Reset Password' in a yellow header bar. Below the title, there is a label 'Email:' followed by a text input field. A 'Submit' button is located below the input field. The entire form area is highlighted with a red rectangular border.

3. In the email you receive, click on the link to set your password



4. Choose your own password and click on save

Change Password

New password:

.....

Strength

Confirm:

.....

Save

5. Go back to the Bioplatforms Data Portal.

When your data transfer to Galaxy is finished, click on the 'Galaxy History' link

Genus is ---

Species is ---

Clear

Search

Show results on Map Export Data to Galaxy Australia for further analysis Export Search Results (CSV) Export Search Results (BIOM)

Successfully submitted to Galaxy. File uploaded to you. **Galaxy history.**

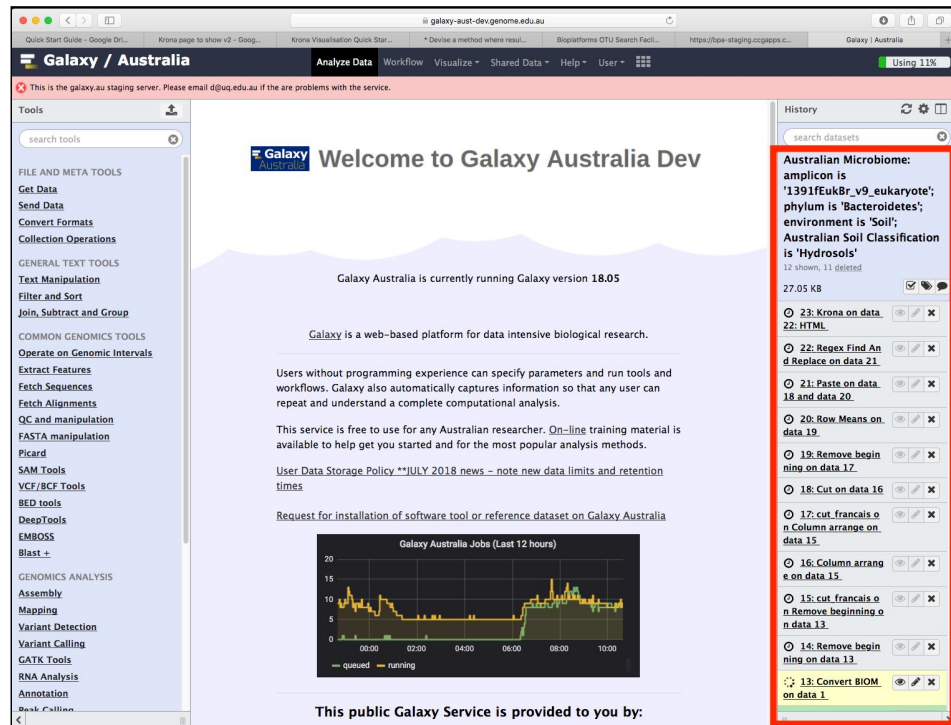
If you are new to Galaxy Australia, please see this [Getting started guide](#)

An account has been created for you on Galaxy Australia. Please [reset your password](#), using the same email address you have registered with the Bioplatforms Data Portal.

BPA Sample ID	BPA Project
7827	Soil
7828	Soil
7831	Soil

6. Your BIOM file from Bioplatforms Data Portal and a list of steps required to generate the Krona graph will be loaded into the **‘History’** pane on the right

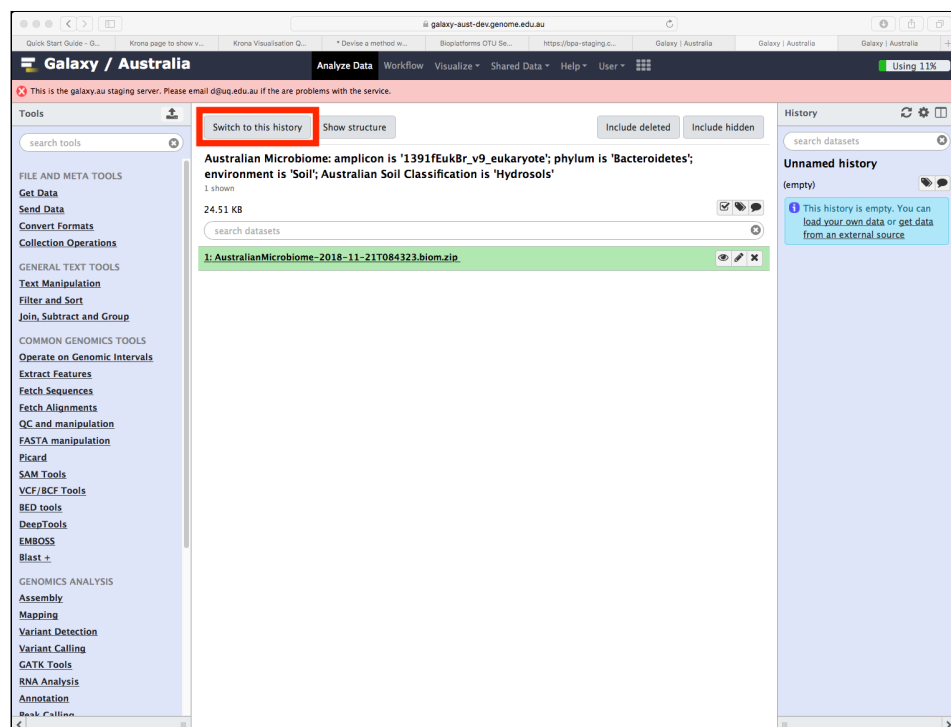
Go to Step 9.



The screenshot shows the Galaxy Australia Dev interface. The left sidebar contains a list of tools categorized into FILE AND META TOOLS, GENERAL TEXT TOOLS, COMMON GENOMICS TOOLS, and GENOMICS ANALYSIS. The main panel displays a welcome message and a graph titled 'Galaxy Australia Jobs (Last 12 hours)'. The right sidebar, titled 'History', shows a list of datasets and tools. A red box highlights the 'History' pane, which contains the following information:

- Australian Microbiome:** amplicon is '1391fEukBr_v9_eukaryote'; phylum is 'Bacteroidetes'; environment is 'Soil'; Australian Soil Classification is 'Hydrosols'
- 27.05 KB
- 23: Krona on data 22: HTML
- 22: Regex Find And Replace on data 21
- 21: Paste on data 18 and data 20
- 20: Row Means on data 19
- 19: Remove beginning on data 17
- 18: Cut on data 16
- 17: cut francals on Column arrange on data 15
- 16: Column arrange on data 15
- 15: cut francals on Remove beginning on data 13
- 14: Remove beginning on data 13
- 13: Convert BIOM on data 1

7. If you are an existing user of Galaxy Australia, and logged in, click on **‘Switch to this history’** to load your data from the BPA Data Portal



The screenshot shows the Galaxy Australia Dev interface with the 'Switch to this history' button highlighted in a red box. The main panel displays the same welcome message and graph. The right sidebar, titled 'History', shows a list of datasets and tools. A red box highlights the 'Switch to this history' button, which is located above the 'Show structure' button. The 'History' pane contains the following information:

- Australian Microbiome:** amplicon is '1391fEukBr_v9_eukaryote'; phylum is 'Bacteroidetes'; environment is 'Soil'; Australian Soil Classification is 'Hydrosols'
- 24.51 KB
- 1 shown
- search datasets
- 1: AustralianMicrobiome-2018-11-21T084323.biom.zip

8. Your BIOM file from the Bioplatforms Data Portal and a list of tools/steps required to generate the Krona graph will be loaded into the **'History'** pane on the right

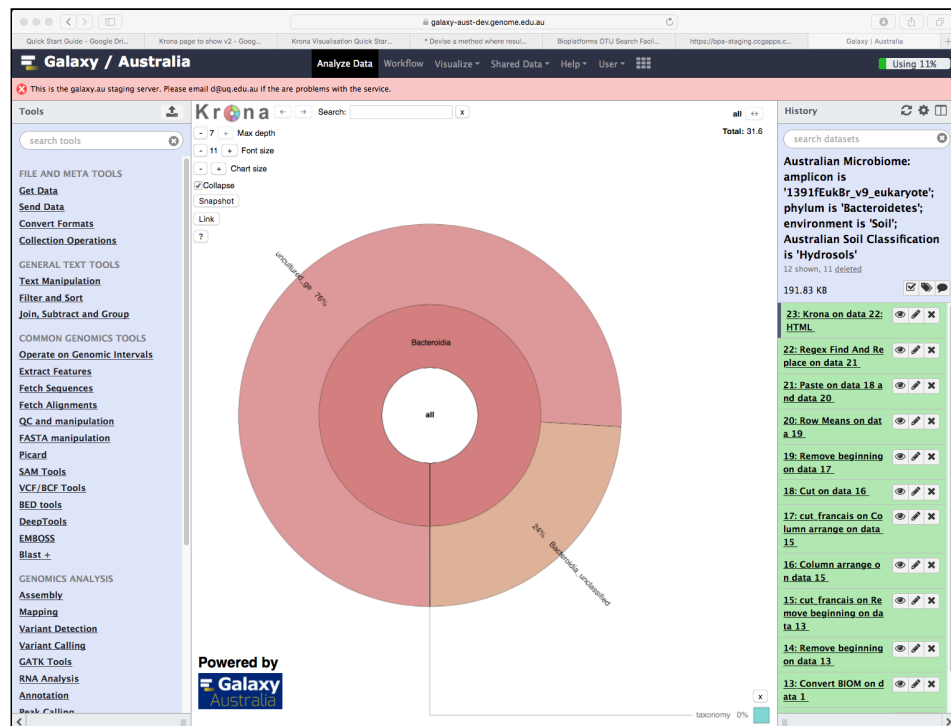
The screenshot shows the Galaxy Australia Dev web interface. The left sidebar contains a 'Tools' menu with categories like 'FILE AND META TOOLS', 'GENERAL TEXT TOOLS', 'COMMON GENOMICS TOOLS', and 'GENOMICS ANALYSIS'. The main content area displays a 'Welcome to Galaxy Australia Dev' message and a 'Galaxy Australia Jobs (Last 12 hours)' graph. The right sidebar shows the 'History' pane with a search bar and a list of jobs. A red box highlights the first job in the history: '23: Krona on data 22: HTML'.

9. When tools in the workflow are finished, they will go **green**. When the last tool in the workflow. i.e. "12. Krona on Data:11" is green*, view the output by clicking on the **eye icon**.

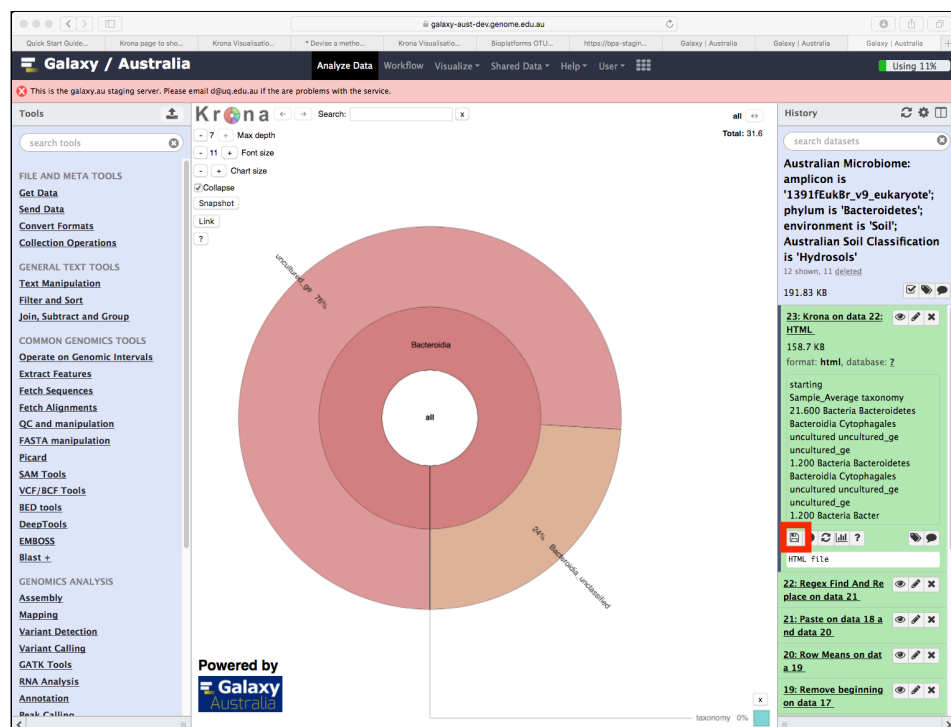
This screenshot shows the same Galaxy Australia Dev interface as the previous one, but the job '23: Krona on data 22: HTML' in the History pane is now green, indicating it has completed. A red box highlights this job. The 'eye icon' next to the job name is visible, which is used to view the output.

* - Note that this may take minutes to hours, depending on the number of samples contributing to, and the taxonomic diversity of, the samples you have selected. **You'll get an email from Galaxy Australia when the Krona graph is ready**, at which time you can come back to Galaxy Australia to view the history and the Krona graph. You don't have to keep your browser open. The jobs are running on the Galaxy server.

10. The interactive Krona graph is loaded into the central panel.



11. You can save the Krona graph as a html file to load into any web-browser later. Click on the **name** of the “Krona on Data:12” step and some more options are shown. Then click on the **floppy disk icon** to download the html file.



Note that Galaxy Australia is not intended for long term data storage, and according to the [Galaxy Australia Data Storage Policy](#), data and histories will be automatically deleted after a period of 3 months.

Krona histories for large BIOM files can also be particularly large due to multiple large intermediate data files, and these intermediate data files may be deleted at the discretion of the operator of Galaxy Australia within the standard 3-month data retention timeframe.

To maintain a copy of your data outputs and/or histories, ensure that you [copy output data off the service](#), and always save your Krona html file as outlined in Step 11 of this guide.