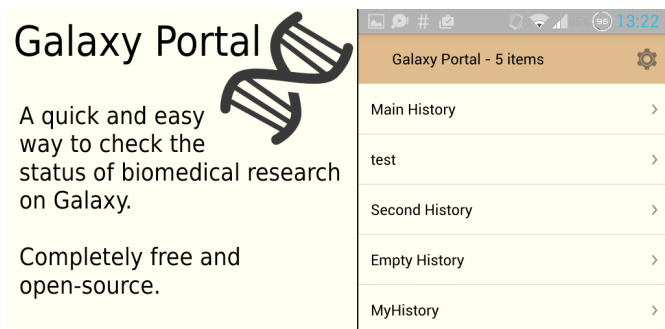


Galaxy Portal User Guide

This document was last updated: 30th October 2014.

Contact author: clausbo@ifi.uio.no



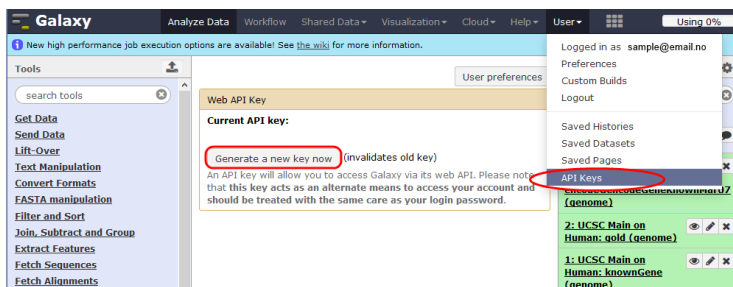
About Galaxy Portal

The Galaxy Portal app aims to be a convenient way to check the status and review histories from Galaxy biomedical research instances.

The Galaxy Portal app was designed to be intuitive to use, but this guide explains the main features and how to get the most out of it. If something is not intuitive please provide feedback even if it was explained in this guide.

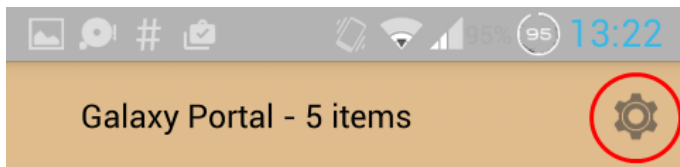
Galaxy Instance

To use the app you will need to have an account on a Galaxy instance, such as <https://usegalaxy.org>. If you do not already have an account you can get one by visiting the Galaxy instance using a web browser. You will also need to have a Galaxy API which you can create by selecting **User** from the menu and choosing **API Keys**. This key is your authentication for interacting with your histories through the Galaxy Portal app.



Initial Setup

Open the configuration page clicking on the cog on the far right in the top action bar.

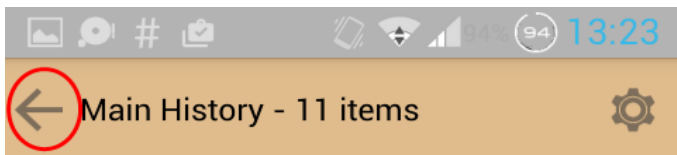


In the first url field type the path to your galaxy instance, e.g. <https://usegalaxy.org>. In the Galaxy API field type or paste the API code you created in your Galaxy user account.

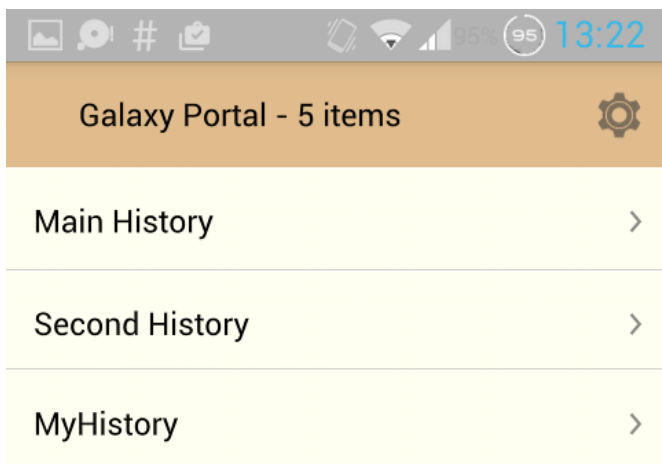
A screenshot of the Galaxy Portal configuration screen. At the top is a tan header bar with a back arrow and the text "Galaxy Portal". Below this is a yellow section titled "Galaxy URL" containing a text input field with the value "https://usegalaxy.org". Below that is another yellow section titled "API Key" with the subtitle "(Generate 'API Keys' in the Galaxy User menu)". This section contains a text input field filled with 20 black dots, representing a masked API key. The top status bar shows icons for camera, speech bubble, hash, envelope, smartphone, Wi-Fi, cellular signal, 94% battery, and the time 13:24.

Galaxy Portal User Guide

This is all you need and you can now click the back arrow on the left in the top action bar to go to the main history list.



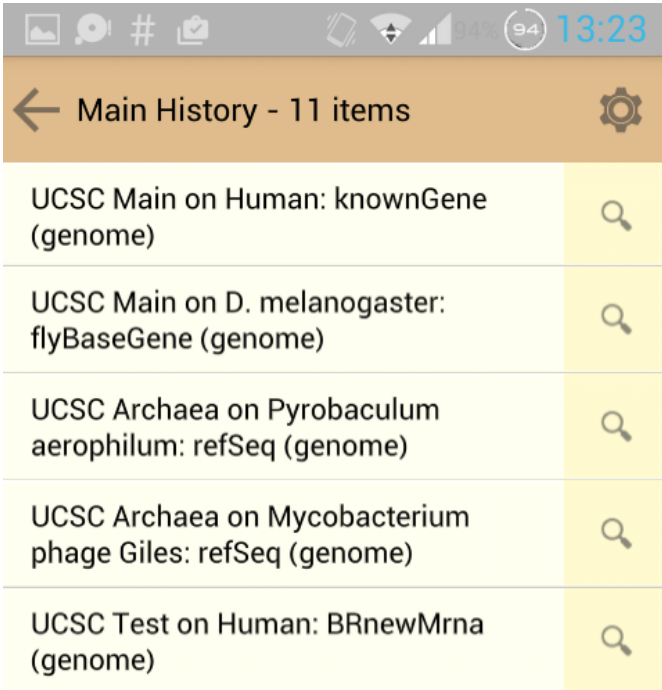
This will bring you to the history list which will be automatically populated with your history items using the names you created in the Galaxy web interface.








If the list is empty then either you do not have any histories or the app was unable to connect. Check the network status of your device, any firewalls and confirm that the url and API is correct. You can confirm that you can reach the url by typing it into a web browser.

History Items

Click on one of your histories to open it and show all the job data for that history. The title in the top action bar will change to show the name of the history and number of items. Each item will be displayed with its name and a magnifying glass on the right.






Main History - 11 items	
UCSC Main on Human: knownGene (genome)	
UCSC Main on D. melanogaster: flyBaseGene (genome)	
UCSC Archaea on Pyrobaculum aerophilum: refSeq (genome)	
UCSC Archaea on Mycobacterium phage Giles: refSeq (genome)	
UCSC Test on Human: BRnewMrna (genome)	

Items are colour coded to show the status of that item.

Job Status Colour Coding




Ok		ivory
Running		aquamarine
Paused		yellow
Queued		sky blue
Error		red
Discarded		gray
Empty		lemon
New		snow white
Resubmitted		cyan

Example of three items with one queued job:










UCSC Main on Lancelet: blastHg18KG (genome)	
UCSC Main on C. elegans: pubsBingBlat (genome)	
UCSC Main on Squirrel monkey: genscan (genome)	

Galaxy Portal User Guide

Example of two items flipped, one with a running job:

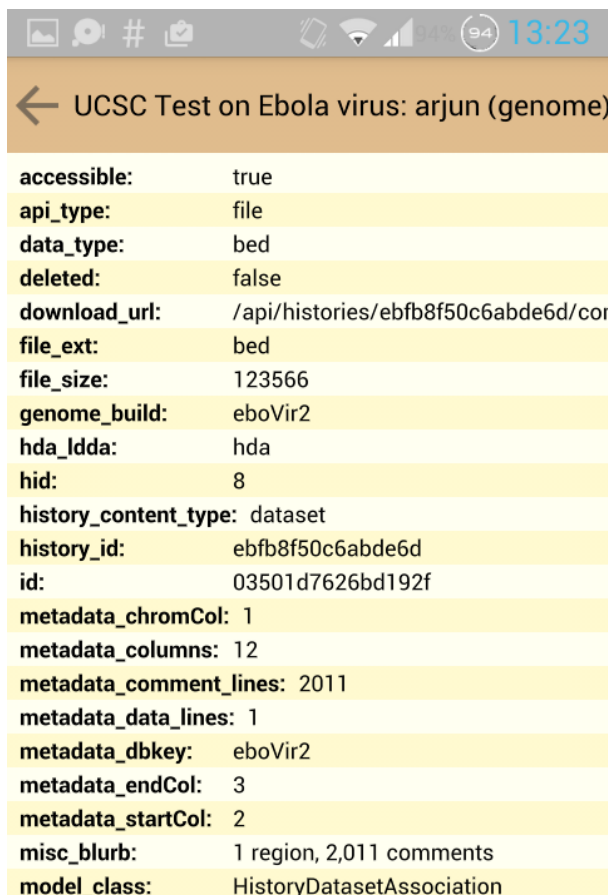
UCSC Main on Gorilla: xenoRefGene (genome)	
Status: ok Content: dataset Type: file	
Status: running Content: dataset Type: file	

Clicking on a history item will flip it to show additional data, including the status. You can click the item again to flip it back to its name. See the *Settings* section on *Field Configuration* for how to configure which fields are shown.

#     89%  89 11:54	
← HistoryOne - 3 items	
Status: ok hda_idda: hda genome_build: hg17 update_time: 2014-09-22T16:19:09.508441 file_size: 354019 file_size: 354019	
UCSC Main on Lancelet: blastHg18KG (genome)	
Status: ok hda_idda: hda genome_build: ce10 update_time: 2014-09-22T16:19:57.551381 file_size: 719821 file_size: 719821	

Galaxy Portal User Guide

Click the magnifying glass to zoom in on all the details of the item. This will retrieve all available fields - usually including a peek at your data.

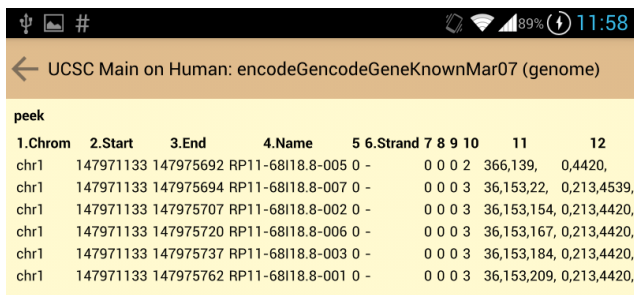


The screenshot shows a mobile application interface. At the top is an Android-style status bar with icons for camera, gallery, home, and recent apps, along with signal strength, Wi-Fi, and battery indicators. Below the status bar is a navigation bar with a back arrow and the title 'UCSC Test on Ebola virus: arjun (genome)'. The main content area displays a list of key-value pairs for a dataset, with each pair on a separate row. The values are truncated on the right side of the screen.

accessible:	true
api_type:	file
data_type:	bed
deleted:	false
download_url:	/api/histories/ebfb8f50c6abde6d/cor
file_ext:	bed
file_size:	123566
genome_build:	eboVir2
hda_ldda:	hda
hid:	8
history_content_type:	dataset
history_id:	ebfb8f50c6abde6d
id:	03501d7626bd192f
metadata_chromCol:	1
metadata_columns:	12
metadata_comment_lines:	2011
metadata_data_lines:	1
metadata_dbkey:	eboVir2
metadata_endCol:	3
metadata_startCol:	2
misc_blurb:	1 region, 2,011 comments
model_class:	HistoryDatasetAssociation

Galaxy Portal User Guide

You can open any of these fields by clicking on the field and if the opened data is larger than your screen you can drag it around to see everything. You can always go back by hitting the back arrow in the top action bar.



The screenshot shows the Galaxy Portal app interface. At the top is a black status bar with icons for signal, camera, and home, and a battery level of 89% at 11:58. Below this is a white header bar with a back arrow and the text "UCSC Main on Human: encodeGencodeGeneKnownMar07 (genome)". The main content area has a yellow background and contains a table with the following data:

peek											
1.Chrom	2.Start	3.End	4.Name	5	6.Strand	7	8	9	10	11	12
chr1	147971133	147975692	RP11-68I18.8-005	0	-		0	0	2	366,139,	0,4420,
chr1	147971133	147975694	RP11-68I18.8-007	0	-		0	0	3	36,153,22,	0,213,4539,
chr1	147971133	147975707	RP11-68I18.8-002	0	-		0	0	3	36,153,154,	0,213,4420,
chr1	147971133	147975720	RP11-68I18.8-006	0	-		0	0	3	36,153,167,	0,213,4420,
chr1	147971133	147975737	RP11-68I18.8-003	0	-		0	0	3	36,153,184,	0,213,4420,
chr1	147971133	147975762	RP11-68I18.8-001	0	-		0	0	3	36,153,209,	0,213,4420,

If your device supports it rotate it to get a landscape view. Any part of the Galaxy Portal app can be viewed in both portrait and landscape mode, and you can rotate between the two at any time.

Settings

The settings can be reached from the main history lists by clicking the cog on the far right of the top action bar (same as shown for initial setup).

Field Configuration

You can configure the fields shown when a history item is flipped.

☒ Enable Advanced Fields

hda_ldda

genome_build

update_time

none

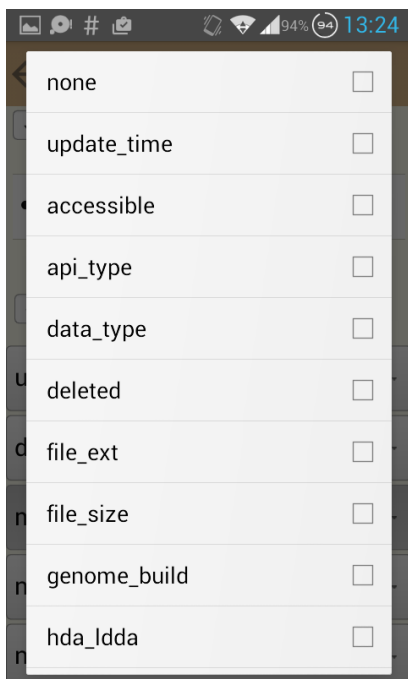
none

Advanced field data is enabled by default and allows you to select up to five fields retrieved from the list of fields provided by your

Galaxy Portal User Guide

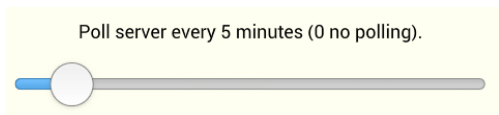
Galaxy instance. If you prefer to only see the basic fields uncheck the advanced fields button. This also eliminates an extra call to the Galaxy instance for the advanced field data and so can improve performance and will use less bandwidth (see *polling* below for how to control how often the app retrieves data).

Choose the field in the list by clicking the drop down box. You can see less data by selecting “none” for some of the fields.



Polling

You can change how frequently the Galaxy instance is polled to update the data in your Galaxy Portal app. By pulling the slider you can change the frequency from zero (never) to every 60 minutes.

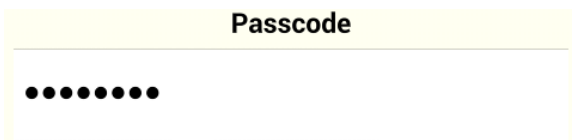


The Galaxy instance is always polled when you open the app, you select a new item in your histories or you open the detail view of an item. However, if you set the polling interval to zero then this is the only time the Galaxy instance is polled.

If you set it to 'X' minutes then the data will be automatically updated every 'X' minutes.

Passcode

As extra security you can enable a passcode to start the app with your API key. If enabled then the passcode must be entered to login to your Galaxy histories with the app. If the wrong passcode is typed an option to bypass the passcode is offered, but doing so will delete the API key and passcode and must be entered again.



Feedback

Thank you for taking an interest in the Galaxy Portal app. Please send any constructive feedback to the contact on the first page. Your feedback is essential to improve the app and learn what works and what doesn't and so is much appreciated. Even just a quick email that you have tried the app and found it useful is helpful.