

Getting started with Galaxy

Feb 18, 2015.



Galaxy
Baltimore


http://wiki.galaxyproject.org

Galaxy Wiki

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Titles Text

FrontPage Edit History Actions




Galaxy is an open, web-based platform for *accessible, reproducible, and transparent* computational biomedical research.

- **Accessible:** Users without programming experience can easily specify parameters and run tools and workflows.
- **Reproducible:** Galaxy captures information so that any user can repeat and understand a complete computational analysis.
- **Transparent:** Users share and publish analyses via the web and create Pages, interactive, web-based documents that describe a complete analysis.

This is the Galaxy Community Wiki. It describes all things Galaxy.

Use Galaxy


Galaxy's [public service web site](#) makes analysis tools, genomic data, tutorial demonstrations, persistent workspaces, and publication services available to any scientist. Extensive [user documentation](#) (applicable to any [public](#) or local Galaxy instance) is available on [this wiki](#) and [elsewhere](#).



Deploy Galaxy

Galaxy is open source for all organizations. Local Galaxy servers can be set up by [downloading and customizing](#) the Galaxy application.

- [Admin](#)
- [Cloud](#)
- [Galaxy Appliance](#)




Community & Project

Galaxy has a large and active user community and many ways to [Get Involved](#).

- [Community](#)
- [News](#)
- [Events](#)
- [Support](#)
- [Galaxy Project](#)


Contribute

- **Users:** [Share](#) your histories, workflows, visualizations, data libraries, and [Galaxy Pages](#), enabling others to use and learn from them.
- **Deployers and Developers:** Contribute tool definitions to the Galaxy [Tool Shed](#) (making it easy for others to use those tools on their installations), and code to the core release.
- **Everyone:** [Get Involved!](#)



BALTIMORE, MD | JUNE 30 - JULY 2, 2014

Early Registration & Abstract Submission are now open



2014


24-25 March, Melbourne

Use Galaxy

[Servers](#) • [Learn](#)

[Main](#) • [Share](#) • [Search](#)

Communicate

[Support](#) • [News](#) 

[Events](#) • [Twitter](#)


[Mailing Lists](#) ([search](#))

Deploy Galaxy

[Get Galaxy](#) • [Cloud](#)

[Admin](#) • [Tool Config](#)

[Tool Shed](#) • [Search](#)



Galaxy made easy.

Contribute

[Tool Shed](#) • [Share](#)

[Issues & Requests](#)

[Teach](#) • [Support](#)

Galaxy Resources & Community: Videos

The screenshot shows the Vimeo profile page for the Galaxy Project. At the top, the Vimeo logo is on the left, and navigation links (Join, Log In, Create, Watch, Upload) and a search bar are on the right. The profile header includes the name "Galaxy Project" with a "PLUS" badge, and "Joined 1 year ago" with a location pin icon and the text "everywhere". Below this is a statistics bar showing: 56 Videos, 0 Likes, 0 Following, 1 Group, 6 Channels, and 0 Albums. A "Recently Uploaded" section follows, with a link to "See all 56 videos". It contains four video thumbnails: 1. "Galaxy Community Conference 2013" (30 June - 2 July, OSLO, UIO University of Oslo). 2. "Datasets 1: Metadata & Basic Functions" (usegalaxy.org). 3. "Using Galaxy protocol 3: Calling Peaks For ChIP-seq Data" (CPB Using Galaxy 3). 4. "Using Galaxy protocol 2: Loading Data and Understanding Datatypes" (CPB Using Galaxy 2). On the left side of the profile, there are three large, dark, rounded rectangular buttons. Below these are "Follow" and "Message" buttons. A paragraph of text describes Galaxy as an open source, web-based platform for data intensive biomedical research, mentioning its use on usegalaxy.org and its development by the Galaxy Team at Penn State and Johns Hopkins University.

Galaxy Project PLUS
Joined 1 year ago 📍 everywhere

56 Videos 0 Likes 0 Following 1 Group 6 Channels 0 Albums

Recently Uploaded + See all 56 videos

Galaxy Community Conference 2013
30 June - 2 July
OSLO UIO University of Oslo
Galaxy Code and Storage Architecture
1 year ago

Datasets 1
Metadata & Basic Functions
usegalaxy.org
Datasets 1
1 year ago

Using Galaxy protocol 3
Calling Peaks For ChIP-seq Data
CPB Using Galaxy 3
1 year ago

Using Galaxy protocol 2
Loading Data and Understanding Datatypes
CPB Using Galaxy 2
1 year ago

✓ Follow ✉ Message

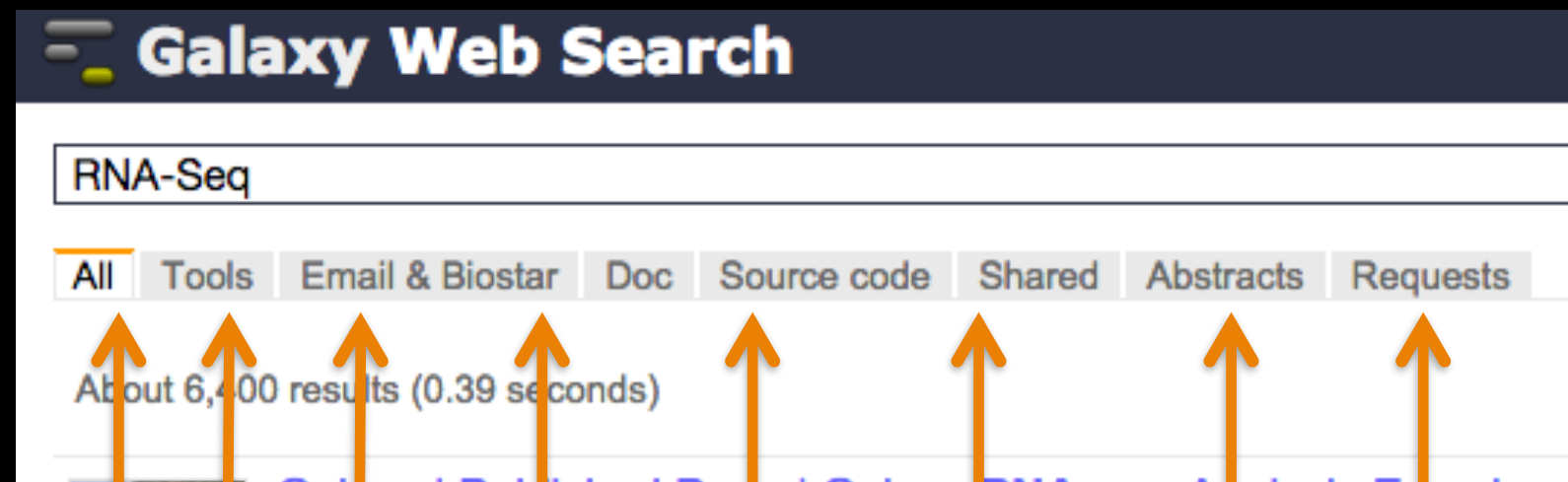
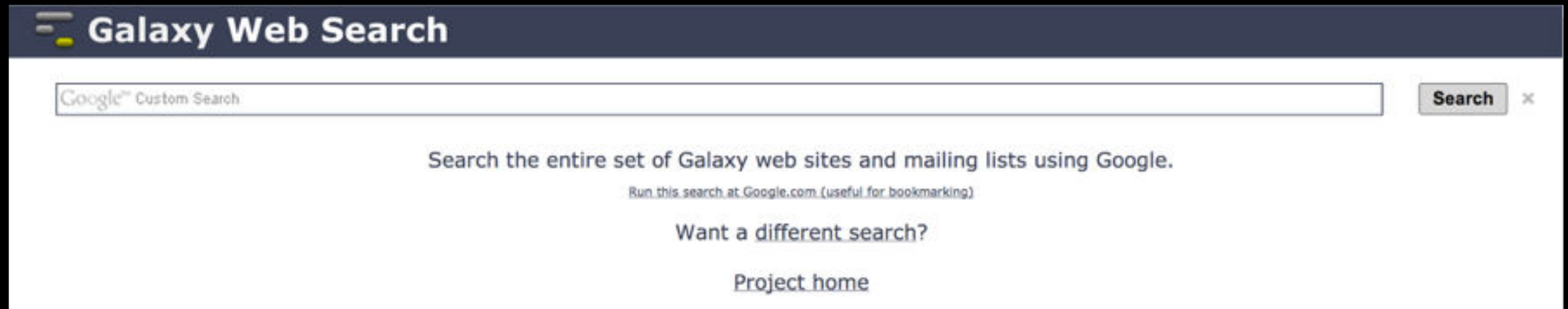
Galaxy is an open source, web-based platform for data intensive biomedical research. Whether on the free public server (usegalaxy.org) or your own instance, scientists can perform, reproduce, and share complete analyses. The Galaxy Team is a part of the Center for Comparative Genomics and Bioinformatics at Penn State, and the Department of Biology and at Johns Hopkins University. The Galaxy Project

“How to”
screencasts on
using and
deploying
Galaxy

Talks from
previous
meetings.

<http://vimeo.com/galaxyproject>

Unified Search: <http://galaxyproject.org/search>




Find

- Everything on ...
- Tools for ...
- Email about ...
- Source code for ...
- Published Histories, Pages, Workflows, about ...
- Documentation on ...
- Papers using Galaxy for ...
- Related feature requests

More interactive help?

<https://biostar.usegalaxy.org/>

LATESTOPENRNA-SEQCHIP-SEQSNPASSEMBLYFORUMPLANETALL »

Enis Afgan • 170 | Logoutabout • faq • rss

CommunityMessagesVotesMy PostsMy TagsFollowingBookmarksNew Post

Live search: start typing...or Q Classic search

Limit to: all time <prev • 3,518 results • page 1 of 101 • next >Sort by: update

0 votes

1 answer

11 views

How do I develop an application through the use of Galaxy API

newapistudentresearchproject

written 11 hours ago by jchen015 • 0 • updated 7 hours ago by Bjoern Gruening • 1.8k

0 votes

1 answer

10 views

How to ask to add a new tool from galaxy team

toolsgalaxy

written 12 hours ago by morteza-sharifinia • 0 • updated 11 hours ago by Bjoern Gruening • 1.8k

0 votes

0 answers

11 views

How to add a genome reference to Bowtie to galaxy project

galaxyrna-seq

written 1 day ago by morteza-sharifinia • 0

0 votes

0 answers

8 views

There is a link to view human hg19 but not hg38 bed files using UCSC. Why?

galaxy

written 1 day ago by nkaplin1 • 0

8 votes

8 answers

615 views

How config the admin menu (adding an administrator in galaxy / biolinux)

biolinuxconfiglocal

written 7 months ago by alfonso.cervantes • 10 • updated 2 days ago by Suzanne Gomes • 100

Recent Votes

- A: Unable to upload (.bam) data file to local Galaxy
- Baltimore Area Galaxy Meetup @ Johns Hopkins, January 22
- January 13, 2015 Galaxy Distribution
- A: Bioblend - toolClient.run_tool does not work with more than one params ?
- A: Custom toolshed tool: job memory requirements
- A: Custom toolshed tool: job memory requirements
- A: Feedback on using uWSGI

Recent Locations • All »

- Australia, 1 hour ago
- United States, 2 hours ago
- Iran, Islamic Republic Of, 3 hours ago
- United States, 5 hours ago
- United States, 5 hours ago

Events

News

Galaxy Wiki

EnisAfgan Settings Logout | Search:

Events

Galaxy Event Horizon

Events with Galaxy-related content are listed here.

Also see the [Galaxy Events Google Calendar](#) for a listing of events and d Community. This is also available as an [RSS feed](#).

If you know of any event that should be added to this page and/or to the Galaxy send it to outreach@galaxyproject.org.

For events prior to this year, see the [Events Archive](#).

Upcoming Events



Date	Topic/Event	Venue/Location
January 15-16	Accessible and Reproducible Genomics at Scale with Galaxy	Revolutionizing Next-Gen Belgium
January 19-20	NGS pipelines with Galaxy	e-Infrastructures for Massi Sweden
January 22	Baltimore Area Galaxy Meetup	Baltimore, Maryland, Unite
January 28	ChIP-Seq Analysis and Visualization using Galaxy and IGB Tutorial	Online
February 9-13	Analyse bioinformatique de séquences sous Galaxy	Montpellier, France
	Accessible and Reproducible Large-Scale	Genome and Transcriptome Analysis , part of Molecular Medicine Tri-

Galaxy Wiki

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News

News

Announcements of interest to the Galaxy Community. These can include items from the Galaxy Team or the Galaxy community and can address anything that is of wide interest to the community.

The Galaxy News is also available as an [RSS feed](#).

See [Add a News Item](#) below for how to get an item on this page, and the [RSS feed](#). Older news items are available in the Galaxy [News Archive](#).

See also

- [Galaxy News Briefs](#)
- [Galaxy Updates](#)
- [Galaxy on Twitter](#)
- [Events](#)
- [Learn](#)
- [Support](#)
- [About the Galaxy Project](#)

News Items

January 2014 CloudMan Release

We just released an update to Galaxy **CloudMan**. CloudMan offers an easy way to get a personal and completely functional instance of Galaxy in the cloud in just a few minutes, without any manual configuration.

This update brings a large number of updates and new features, the most prominent ones being:



Galaxy Resources and Community: Mailing Lists

<http://wiki.galaxyproject.org/MailingLists>

Galaxy-Announce

Project announcements, low volume, moderated

Low volume (47 posts in 2014, 4100+ members)

Galaxy-Dev

Questions about developing for and deploying Galaxy

High volume (2700 posts in 2014, 1000+ members)

Galaxy Resources & Community: CiteULike Group



CiteULike Group: Galaxy Search Register Log in

Group: Galaxy - library 2020 articles

Search Copy Export Sort Hide Details

✓ **Open pipelines for integrated tumor genome profiles reveal differences between pancreatic cancer tumors and cell lines**
Cancer Medicine (December 2014), pp. n/a-n/a, doi:10.1002/cam4.360
by [Jeremy Goecks](#), [Bassel F. El-Flayes](#), [Shishir K. Maithe](#), [H. Jean Khoury](#), [James Taylor](#), [Michael B. Rossi](#)
posted to [methods](#) [shared](#) [usemain](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-09 00:22:41 ★★★★★

✓ **RNA-Seq reveals a xenobiotic stress response in the soybean aphid, Aphis glycines, when fed aphid-resistant soybean**
BMC Genomics, Vol. 15, No. 1. (16 November 2014), 972, doi:10.1186/1471-2164-15-972
by [Raman Bansal](#), [M. A. R. Mian](#), [Omprakash Mittapalli](#), [Andy P. Michel](#)
posted to [methods](#) [uselocal](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-09 00:15:52 ★★

■ Abstract

✓ **Draft Genome Sequence of the Cellulolytic Bacterium Clavibacter sp. CF11, a Strain Producing Cold-Active Cellulase**
Genome Announcements, Vol. 3, No. 1. (26 February 2015), e01304-14, doi:10.1128/genomea.01304-14
by [Ying Du](#), [Bo Yuan](#), [Yonghui Zeng](#), et al.
posted to [methods](#) [usemain](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-09 00:03:34 ★★

■ Abstract

✓ **Identifying transcriptional cis -regulatory modules in animal genomes**
Wiley Interdisciplinary Reviews: Developmental Biology (December 2014), pp. n/a-n/a, doi:10.1002/wdev.168
by [Kushal Suryamohan](#), [Marc S. Halfon](#)
posted to [refpublic](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-09 00:01:02 ★★

✓ **Dynamic shifts in occupancy by TAL1 are guided by GATA factors and drive large-scale reprogramming of gene expression during hematopoiesis**
Genome Research, Vol. 24, No. 12. (01 December 2014), pp. 1945-1962, doi:10.1101/gr.164830.113
by [Weisheng Wu](#), [Christopher S. Morrissey](#), [Cheryl A. Keller](#), et al.
posted to [methods](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-08 23:56:32 ★★

■ Abstract

✓ **Rampant software errors undermine scientific results**
F1000Research (11 December 2014), doi:10.12688/f1000research.5930.1
by [David A. W. Soergel](#)
posted to [workbench](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-08 23:49:39 ★★ [along with 2 people and 1 group](#)

✓ **Reproducibility in Science**
Circulation Research, Vol. 116, No. 1. (02 January 2015), pp. 116-126, doi:10.1161/circresaha.114.303819
by [C. Glenn Begley](#), [John P. A. Ioannidis](#)
posted to [reproducibility](#) by [galaxyproject](#) to the group [Galaxy](#) on 2015-01-08 23:21:23 ★★ [along with 1 person](#)

■ Abstract

Group Tags
All tags in the group Galaxy
Filter:
[\[Display as Cloud\]](#)

methods	973
workbench	633
usemain	190
tools	146
isgalaxy	115
cloud	77
usepublic	76
uselocal	70
shared	70
other	54
unknown	51
reproducibility	42
howto	41
project	38
refpublic	38
visualization	12
usecloud	3

Over
2000
papers

17 tags

<http://bit.ly/gxycul>



wiki.galaxyproject.org/Events/GCC2015



Training poll @



- Interested in training workshop series?
- Topic ideas
 - Galaxy 101
 - RNA-Seq
 - ChIP-Seq
 - Metagenomics
 - Installing Galaxy
 - For your lab
 - On a (SGE) cluster for large/many datasets
 - **Your suggestion here?**