<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00</td>
<td>Galaxy: Introduction and Ecosystem</td>
<td>Dave Clements</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>4:20</td>
<td>G-OnRamp: Visualizing and Annotating Eukaryotic Genomes with Galaxy</td>
<td>Jeremy Goecks</td>
<td>OHSU</td>
</tr>
<tr>
<td>5:30</td>
<td>South Green, a Hitchhiker’s Guide to Galaxy</td>
<td>Marilyne Summo</td>
<td>CIRAD</td>
</tr>
<tr>
<td>5:50</td>
<td>Building a Bridge from the Tripal Community Database to Galaxy</td>
<td>Margaret Staton</td>
<td>University of Tennessee, Knoxville</td>
</tr>
</tbody>
</table>
Galaxy: Introduction and Ecosystem

Plant & Animal Genome XXVI (PAG 2018)
January 16, 2018
San Diego, California, United States
Dave Clements
Johns Hopkins University
Galaxy Team / Galaxy Community

#usegalaxy  @galaxyproject
bit.ly/gxy-pag2018-eco
What is Galaxy? The Project's definition

Galaxy is an open, web-based platform for accessible, reproducible, and transparent computational biomedical research.
What is Galaxy? **Kieth Bradnam's definition**

"A web-based platform that provides a simplified interface to many popular bioinformatics tools."

From

"13 Questions You May Have About Galaxy"

Galaxy User Interface

usegalaxy.org
Galaxy is available several ways ...
Galaxy is an open source, web-based platform for data intensive biomedical research. If you are new to Galaxy start here or consult our help resources. You can install your own Galaxy by following the tutorial and choose from thousands of tools from the Tool Shed.

Running Your Own
Understanding how Galaxy works
An in-depth tutorial
Public Galaxy servers

General Purpose / Genomics servers
19 servers as of last week

Domain Specific
36 servers

Tool publishing servers
44 servers

Total
99 servers

bit.ly/gxyServers
Galaxy Services
Can't use a service? Galaxy is available on other Clouds

http://aws.amazon.com/education
http://globus.org/
http://wiki.galaxyproject.org/Cloud
https://launch.usegalaxy.org/
Community and Ecosystem

Viva contributors!

Thank you for contributing to Galaxy IUC tools.

News

January 2018 News of the Galaxy! – New events, blog posts, publications, jobs, ...
All-new CloudLaunch release – Manages your credentials, multiple clouds, multiple apps,...
GCCBOSC2018 Training Topic Nominations – Choose your own training adventure!

Events

Plant & Animal Genome XXVI (PAG 2018) – Galaxy is for Plants and Animals too...
Packaging your bioinformatics tool with Bioconda and Galaxy – from Melbourne Bioinformatics
Developing bioinformatics training materials – from Melbourne Bioinformatics

@galaxyproject

Galaxy Project @galaxyproject
The RepeatExplorer public #usegalaxy server is impressive. Everything you ever wanted to know/learn/discover about repeats. And they have an integrated @usejbrowse as well. repeatexplorer.org #PAGXXVI

galaxyproject.org
Support: Galactic Search

Searching the Galaxy

Welcome to the comprehensive Galaxy search interface. This is a Google Custom Search Engine that will search all things Galaxy. This includes all of the codebase (Galaxy and related projects), the mailing lists, biostars, and more.

If you haven’t already, enter your query into the box in the masthead, and results will appear below.

---

**shrnaseq**

This tool performs differential representation analysis on either a fastq file of sgRNA/shRNA sequencing reads or a table of counts specifying sgRNA/shRNA counts. There are options to use exact tests or generalised linear models, the latter allowing for gene set testing. The outputs contain a MDS...

https://toolshed.g2.bx.psu.edu/view/shrians/shrnaseq

Labeled **Tools**

---

**CRISPR Screens sequence analysis**

Add New Post. Question: CRISPR Screens sequence analysis. 0. gravitar for falaksher2. 15 months ago by. falaksher2 • 0. United States. falaksher2 • 0. has support for CRISPR screens e.g. sgRNA sequence analysis pipeline Thanks, Falak. galaxy • 289 views. ADD COMMENT • link • Not following.

https://biostar.usegalaxy.org/p/19090/

Labeled **Discussion Use**

---

**Galaxy | Published Workflow | MAGeCK count table to .GCT for IGV**


https://usegalaxy.org/uk/cmab/w/mageck-count-conversion
Support: Galaxy Biostars Forum

Recent Votes
- Workflow jobs not running/queueing on a local Galaxy
- Out Of Disk Space with Picard's FastqtoSam Tools from Galaxy
- C: Out Of Disk Space with Picard's FastqtoSam Tools from Galaxy
- File loading error in local galaxy
- Problems with Trinity
- BWA-MEM Fatal error: Matched on ERROR
- A: Galaxy storage problem

Recent Locations • All »
- United States, 3 minutes ago
- United States, 24 minutes ago
- Germany, 1 hour ago

Recent Awards • All »
- Scholar to Jennifer Hillman Jackson • 23k
- Teacher to Devon Ryan • 1.9k
- Scholar to Devon Ryan • 1.9k
- Appreciated ❤️ to Jennifer Hillman Jackson • 23k
- Scholar to Jennifer Hillman Jackson • 23k
- Scholar to Jennifer Hillman Jackson • 23k

Traffic: 117 users visited in the last hour
Support: Gitter Chat

Viva contributors!

Thank you for contributing.

https://gitter.im/galaxyproject/Lobby
Thanks guys! Ping @nekrut - just copying those columns directly from the SRA data with either the Mac's Numbers or Google Charts seems to work when just pasting the data into Galaxy.

Yvan Le Bras @yanlebras
Jan 12 12:21
Groooovy!

galaxybot @galaxybot
Jan 12 13:24
[jxtx] Awesome.

Martin Cech @martenson
Jan 12 13:50
@jmc1hlon cool beans! The table is live, right?
because once we get this in, it would be awesome to extend it to csv-like dataset editing 😚

John Chilton @jmchilton
Jan 12 13:52
It is reactive - as you add rules (columns, filters, swap things, sorting rules, etc...) it redraws in real time.

Yeah - the rules backend is a little JSON language I'm building up with the widget - it is meant to be portable and executable on the backend. It would be cool to a tool that would apply the rules to datasets in addition to uploads like this (also to apply to existing collections in the middle of a workflow - this could serve as the most expressive collection operation I think).

Martin Cech @martenson
Jan 12 14:01
The library also supports direct edit it seems.
### Mailing Lists

Galaxy has several active mailing lists, each for a different purpose in the Galaxy community.

<table>
<thead>
<tr>
<th>List Link</th>
<th>Description</th>
<th>List Email Address</th>
<th>Archives</th>
</tr>
</thead>
<tbody>
<tr>
<td>galaxy-announce</td>
<td>Announcements of interest to the Galaxy community. <em>Moderated and low volume.</em></td>
<td>galaxy-announce AT lists DOT galaxyproject DOT org</td>
<td>Nabble, Mailman</td>
</tr>
<tr>
<td>galaxy-dev</td>
<td>Local installation, configuration, and tool integration help, or to propose new features. <em>High volume.</em></td>
<td>galaxy-dev AT lists DOT galaxyproject DOT org</td>
<td>Nabble, Mailman</td>
</tr>
<tr>
<td>galaxy-proteomics</td>
<td>Proteomics related questions, announcements, and anything else of interest to the Galaxy proteomics community. <em>Low volume.</em></td>
<td>galaxy-proteomics AT lists DOT galaxyproject DOT org</td>
<td>Nabble, Mailman</td>
</tr>
<tr>
<td>galaxy-training</td>
<td>If you have a question about teaching bioinformatics with Galaxy, or about teaching Galaxy itself, then this is a good place to find an answer. This is also the official mailing list of the Galaxy Training Network (GTN).</td>
<td>galaxy-training AT lists DOT galaxyproject DOT org</td>
<td>Nabble, Mailman</td>
</tr>
<tr>
<td>galaxy-france</td>
<td>Cette liste est destinée à l’information (et aux discussions) de la Communauté francoise Galaxy. (This list is for announcements to (and discussion within) the French Galaxy Community. (Email only).)</td>
<td>galaxy-france AT lists DOT galaxyproject DOT org</td>
<td>Nabble, Mailman</td>
</tr>
</tbody>
</table>
Galaxy News Feed

This page contains announcements of interest to the Galaxy Community. These include items from the Galaxy Team or the Galaxy community and address anything that is of wide interest to the community.

Also see the [Galactic Blog](https://galaxyproject.org/news/) for more.

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.

<table>
<thead>
<tr>
<th>Date</th>
<th>News Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 5th 2018</td>
<td>January 2018 News of the Galaxy!</td>
<td>New events, blog posts, publications, jobs, ...</td>
</tr>
<tr>
<td>January 5th 2018</td>
<td>All-new CloudLaunch release</td>
<td>Manages your credentials, multiple clouds, multiple apps, ...</td>
</tr>
<tr>
<td>December 14th 2017</td>
<td>GCCBOSC2018 Training Topic Nominations</td>
<td>Choose your own training adventure!</td>
</tr>
<tr>
<td>December 7th 2017</td>
<td>December 2017 Galaxy News</td>
<td>New events, blog posts, publications, jobs, ...</td>
</tr>
<tr>
<td>November 15th 2017</td>
<td>European Galaxy Administrator Workshop</td>
<td>5 days of admin training in Oslo</td>
</tr>
<tr>
<td>November 2nd 2017</td>
<td>Galaxy Release 17.09</td>
<td>Singularity, download collections, switch tool versions in workflows, ...</td>
</tr>
<tr>
<td>October 31st 2017</td>
<td>November 2017 Galaxy News</td>
<td>Galactic Blog launches, new events, pubs, tools, ...</td>
</tr>
</tbody>
</table>

https://galaxyproject.org/news/
The Galactic Blog

Welcome to the Galactic Blog, a list of Galaxy related blog posts from community members. This blog contains longer form posts or pointers to longer form posts that are elsewhere on the web.

The Galactic Blog complements the Galaxy News feed.

Add your voice!

See the hub CONTRIBUTING page in general, and the blog section in particular for directions on how to add a blog entry.

Here's what people are saying

<table>
<thead>
<tr>
<th>Date</th>
<th>Author(s)</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 2018 Jan 08 | Ming Chen  
               *from Staton Lab* | Galaxy R Markdown Tools  
                                         Using R Markdown as a framework to develop Galaxy tools             |
| 2017 Dec 12 | Tomas Klingström  
               *from the Galactic Blog* | Galaksio: a Galaxy user interface focused on running prepared workflows  
                          Make your workflows more accessible to non-bioinformaticians       |
| 2017 Dec 11 | Tomas Klingström  
               *from Freiburg Galaxy Team Blog* | Bioinformatic training with the B3Africa project  
                                         Training using the Galaksio interface                                 |
| 2017 Dec 01 | Vimaikumar Velayudhan  
               *from Vimaikumar Velayudhan's Blog* | Setup your own instance of the Galaxy Bioinformatics platform on DigitalOcean  
                                         Setup a DigitalOcean droplet with Galaxy, Apache and PostgreSQL     |
# Welcome to Galaxy Training!

Collection of tutorials developed and maintained by the worldwide Galaxy community.

## Galaxy for Scientists

<table>
<thead>
<tr>
<th>Topic</th>
<th>Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Galaxy</td>
<td>10</td>
</tr>
<tr>
<td>Assembly</td>
<td>3</td>
</tr>
<tr>
<td>ChIP-Seq data analysis</td>
<td>2</td>
</tr>
<tr>
<td>Epigenetics</td>
<td>1</td>
</tr>
<tr>
<td>Metagenomics</td>
<td>2</td>
</tr>
<tr>
<td>Proteomics</td>
<td>8</td>
</tr>
<tr>
<td>Sequence analysis</td>
<td>6</td>
</tr>
</tbody>
</table>

## Galaxy for Developers and Admins

<table>
<thead>
<tr>
<th>Topic</th>
<th>Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Galaxy Server administration</td>
<td>8</td>
</tr>
<tr>
<td>Development in Galaxy</td>
<td>13</td>
</tr>
<tr>
<td>Train the trainers</td>
<td>6</td>
</tr>
</tbody>
</table>

[http://galaxyproject.github.io/training-material/](http://galaxyproject.github.io/training-material/)
Galaxy Trainer Directory

The Galaxy Trainer Directory is a service of the Galaxy Training Network which aims to make it easy to share and find Galaxy training resources. This directory lists individuals and groups that do Galaxy training. The contacts listed here are willing to present Galaxy at meetings and workshops. The directory includes particular areas of expertise and how far the instructors are willing to travel.

Do you or your organization do Galaxy training? Then please tell the Galaxy Community! You can

https://galaxyproject.org/teach/trainers/
Galaxy Event Horizon

Upcoming (and past) events with Galaxy-related content.

The events listed here are also available in the Galaxy Events Google Calendar. The Galaxy Other Events Google Calendar lists additional events that are relevant to the Galaxy Community, but that are not known to feature significant Galaxy content.

If you know of any event that should be added to this page and/or to the Galaxy Event Calendar, please add it here or send it to outreach@galaxyproject.org. For events prior to this year, see the Events Archive.

Upcoming Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic/Event</th>
<th>Venue/Location</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 13th 2018</td>
<td>Plant &amp; Animal Genome XXVI (PAG 2018)</td>
<td>San Diego, California</td>
<td>See web page</td>
</tr>
<tr>
<td>January 18th 2018</td>
<td>Packaging your bioinformatics tool with Bioconda and Galaxy</td>
<td>Melbourne Bioinformatics, Carlton, Victoria, Australia</td>
<td>Saskia Hiltemann, Eric Rasche</td>
</tr>
<tr>
<td>January 22nd 2018</td>
<td>Developing bioinformatics training materials</td>
<td>Melbourne Bioinformatics, Carlton, Victoria, Australia</td>
<td>Saskia Hiltemann, Eric Rasche</td>
</tr>
<tr>
<td>February 1st 2018</td>
<td>Galaxy-P: an accessible resource for multi-omics analysis</td>
<td>Lorne Proteomics Symposium, Lorne, Victoria, Australia</td>
<td>Maria Doyle</td>
</tr>
<tr>
<td>February 12th 2018</td>
<td>Supporting Highly Scalable Scientific Data Analysis with Galaxy</td>
<td>Converged IT &amp; the Cloud, San Francisco, California, United States</td>
<td>James Taylor</td>
</tr>
<tr>
<td>February 21st 2018</td>
<td>RNA Sequencing and Differential Expression</td>
<td>University of Aberdeen, Scotland, United Kingdom</td>
<td>Sophie Shaw</td>
</tr>
</tbody>
</table>

https://galaxyproject.org/events/
Galaxy's Community Conference & OBF's Bioinformatics Open Source Conference are collocating in 2018

Please join us in Portland, Oregon, United States
June 25-30, 2018

https://gccbosc2018.sched.com/
Just announced today

galaxyafrica
.sanbi.ac.za
3 more events, tomorrow

[Event Schedule]

- **C25: PiRATE: A Pipeline to Retrieve and Annotate Transposable Elements of Non-Model Organisms**
  - Digital Tools and Resources
  - Session 4, California Room
  - Jérémy Berthelier

- **Galaxy Community Update**
  - Workshop: GMOD, Pacific Salon
  - 4-5
  - Dave Clements

- **G-OnRamp: Collaborative Eukaryotic Genome Annotations with Galaxy and Apollo**
  - Workshop: GMOD, Pacific Salon
  - 4-5
  - Luke Sargent

[Event Website]

https://galaxyproject.org/events/2018-pag/
The Galaxy Team

Enis Afgan  Dannon Baker  Dan Blankenberg  Dave Bouvier  Marten Cech  John Chilton

Dave Clements  Nate Coraor  Jeremy Goecks  Sam Guerler  Jen Jackson

Vahid Jalili  Delphine Lariviere  Anton Nekrutenko  Nick Stoler  James Taylor

https://galaxyproject.org/galaxy-team
Acknowledgements

You!  PAG
Jeremy Goecks  Marilyne Summo  Meg Staton
The Galaxy Community

NIH
Johns Hopkins University
Penn State University
Oregon Health & Science University
Cleveland Clinic
Thanks

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