Galaxy @

Plant and Animal Genome XXII (PAG 2014)

Galaxy for NGS Analysis

A Hands-on Workshop

Tues 4:00-6:10, California Room

Dave Clements, Anushka Brownley

This workshop will introduce the Galaxy platform and walk participants through a multi-step next generation sequencing data analysis, starting with quality control. We will review common choices in NGS data analysis, and demonstrate them within the context of Galaxy, taking advantage of Galaxy's tool set and visualization capabilities.

We will also provide a brief overview of what is needed to set up your own local Galaxy instance.

This complements the *Galaxy CloudMan* talk on Wednesday during the GMOD Workshop, which will focus on creating your own Galaxy instance on the cloud.

UCSC Genome Browser

Sat 4:00-6:10, California Room

Robert Kuhn

URGI Plant and Fungi Platform

Distributed Resources Through GMOD Tools

Wed 11:10-11:50, GMOD Workshop Golden West

Joelle Amselem, *et al.*

Galaxy CloudMan

A Gentle Introduction to Data Analysis on the Cloud

Wed 11:50-12:30, GMOD Workshop, Golden West

Dave Clements

Galaxy is open-source and web-based, with over 50 publicly accessible Galaxy servers and hundreds of private installations around the world. Galaxy can also be run on compute clouds using *Galaxy CloudMan*.

This talk will briefly introduce Galaxy, Galaxy CloudMan, and some basic cloud concepts. We'll then show a live demonstration of how to setup a Galaxy server on Amazon Web Services (one of several supported cloud infrastructures) using CloudMan, add a dynamically scalable compute cluster to perform analysis, customize the server by adding new tools, and then shut the server down. All steps can be done through a web browser, without ever using a command line interface.

Poster Sessions

Mon 10:00-11:30

P988: The South Green Bioinformatics Platform, Mathieu Rouard, *et al.*

P1050: Integrative System for Gene Family Gathering and Analysis in a Context of Crops' Stress Response Study, Delphine Lavivière, *et al.*

Mon 3:00-4:30

P135: SNP Genotyping to Accelerate Rice Breeding, Michael Thomson, *et al.*

P1041: RepeatExplorer: Collection of Tools for Mining of Repetitive Elements from NGS Data, Petr Novak, *et al.*

The Galaxy Project

Galaxy is an open source web-based platform for data integration and analysis in life sciences research.

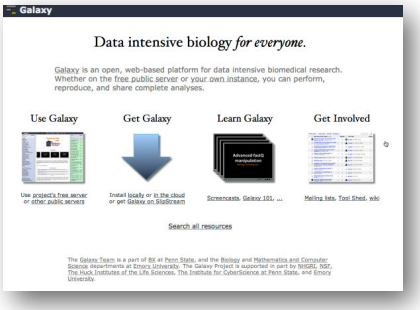
The Galaxy Project is supported by a large and active community.

http://galaxyproject.org

GALAXY COMMUNITY CONFERENCE

BALTIMORE, MD | JUNE 30 - JULY 2, 2014

Galaxy is an open, web-based platform for data intensive biomedical research that enables bioinformaticians and bench scientists alike to create, run, refine, and share analyses. This annual event engages a community of biologists, developers, data producers, core facilities staff, and tool creators, all working towards addressing the challenges of big data in biological research. GCC2014 will start with a training day, followed by two full days of presentations, lightning talks, posters , birds-of-a-feather gatherings, and exhibitors.



Galaxy : Data intensive biology for *everyone*

JOHNS HOPKINS UNIVERSITY

NIH National Institutes of Health
Turning Discovery Into Health

Key Dates

Feb 10	Talk, poster submission opens
Feb 10	Early registration opens
April 4	Talk abstract deadline
April 25	Poster abstract deadline
May 23	Early registration closes
June 13	Regular registration closes
June 30	Training Day: 12 sessions
July 1	Meeting Day 1
July 2	Meeting Day 2