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.

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.

UCSC Genome Browser
Sat 4:00-6:10, California Room
Robert Kuhn

Poster Sessions
Mon 10:00-11:30

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 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.

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

http://galaxyproject.org/GCC2014