Monday, July 16  Travel to St. Louis

Noon  Check-in noon – 4 pm Village Dorm, ground floor
(if after 4 pm call W Leung 314-651-7239; if 8 pm - midnight, contact WU
Summer Housing 314-935-5015; arriving after midnight or emergencies, call
WU Campus Police, 314-935-5555)

2 – 4 pm  NSLC computer lab open for review of Galaxy 101 OR for building familiarity
with genome browsers (UCSC or JBrowse)
Life Sciences, first floor; staff available

5:00 pm  Welcome Reception
Village Dorm Fireplace Room, ground floor
(sign up for Thursday box lunches)

6:00 pm  Dinner (Catered; Village Dorm Fireplace Room, ground floor)

7:00 pm  Welcome to the G-OnRamp Workshop:
Introduction to the GEP, Galaxy and G-OnRamp; Goals for the Workshop
Jeremy Goecks and Sarah Elgin
Overview: Goals of participants
All attendees

Tuesday, July 17

7:30 am  Breakfast at the Knight Center (second floor buffet)

8:30 am  Overview of Galaxy: Using Galaxy to analyze RNA-Seq data
Yating Liu and Luke Sargent
NSLC Computer Lab, Washington University Danforth Campus

10:15 am  Coffee break
NSLC Lounge

10:30 am  Introduction to G-OnRamp (lecture)
Luke Sargent and Jeremy Goecks

Introduction to G-OnRamp (walkthrough):
Use G-OnRamp to create a genome browser for the D. biarmipes F element
Yating Liu
NSLC Computer Lab
12:00 noon  Lunch: informal discussions
(Get sandwiches, salads etc. at the DUC, Starbucks, Subway, Grounds for Change)
NSLC Computer Lab will remain open for continuing work if desired

1:00 pm  Customize the Genome Browsers produced by G-OnRamp, including adding and editing evidence tracks
Yating Liu
NSLC Computer Lab

2:30 pm  Break: sodas and munchies
NSLC Lounge

2:45 pm  Use G-OnRamp to create Genome Browsers for whole genome assemblies. Practice time: Explore the Genome Browsers created by G-OnRamp
NSLC Computer Lab

4:15 pm  Transfer large genomic datasets to G-OnRamp
Wilson Leung

5:15 pm  Recap: what worked well, what did not — user feedback

6:00 pm  Dinner (catered, Village Fireplace Room)
Discussion: Bringing genomics research into the undergraduate curriculum: GEP, G-OnRamp and Galaxy in undergraduate classes / research
Sarah Elgin

Wednesday, July 18

7:30 am  Breakfast at the Knight Center (second floor buffet)

8:30 am  Use G-OnRamp to set up a collaborative annotation environment on Apollo (add assembly hubs, add annotators, reviewers, etc.)
Set up a collaborative annotation environment on Apollo for Drosophila biarmipes (walkthrough)
Yating Liu
NSLC Computer Lab

10:15 am  Coffee break
NSLC Lounge

10:30 am  Use Apollo to do collaborative genome annotation
Wilson Leung
NSLC Computer Lab
12:00 noon Lunch: informal discussions  
(Get sandwiches, salads etc. at the DUC, Starbucks, Subway, Grounds for Change)  
NSLC Computer Lab will remain open for continuing work if desired

1:00 pm Use Galaxy / G-OnRamp to analyze epigenomics / ChIP-seq data  
Jeremy Goecks  
NSLC Computer Lab

2:30 pm Break: sodas and munchies  
NSLC Lounge

2:45 pm Comparative gene annotation with Galaxy / G-OnRamp  
Wilson Leung  
NSLC Computer Lab

4:15 pm Moving data to/from CyVerse Data Store  
Luke Sargent

5:15 pm Recap: what worked well, what did not — user feedback

6:00 pm Dinner (barbecue; Life Sciences 311)  
Computer lab open for additional practice, work on own projects

**Thursday, July 19**

7:30 am Breakfast at the Knight Center (second floor buffet)  
(bring bags to NSLC; must vacate dorm rooms by 11 am)

8:30 am Deployment options for G-OnRamp (e.g., centralized server, Docker, Virtual Machines) on local servers or on a public cloud (e.g., Amazon EC2, Microsoft Azure, Jetstream).  
Luke Sargent  
NSLC Computer Lab

10:00 am Coffee break, NSLC Lounge

10:30 am Working groups or optional session on differential expression analysis with RNA-Seq (Wilson Leung)

12:00 noon Lunch (box lunches)  
NSLC Classroom, LS 311

1:00 pm Computer lab open; take shuttle to airport as needed.
Possible working groups:

- Use GEP web framework tools (e.g., Gene Record Finder, Gene Model Checker) to facilitate student work and citizen-scientist annotation (W Leung)
- Other as requested / designed by participants

Last update: 07/08/2018