**Draft: G-OnRamp Workshop Agenda 2018**

**Washington University in St. Louis, July 16-19**

# **Monday, July 16 Travel to St. Louis**

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| Noon  2 – 4 pm | 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*)  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***

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| 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***

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| 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***

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| 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