Draft Agenda
Genomics Education Partnership Alumni Faculty Workshops
Planning the Next Stage
Washington University, July 22-25, 2017

Saturday, July 22

Noon
Opportunity to work with C Shaffer & W Leung Village Dorm, ground floor
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;
emergencies, WU Campus Police, 935-5555)

5:00 pm
Welcome Reception (Fireplace Dining area, first floor, Village Dorm)

6:00 pm
Dinner (Mexican Buffet, catered)
(Fireplace Dining area, first floor, Village Dorm)

7:00 pm
Overview: report on GEP activity for the 2016-2017; introduction to plans for
next manuscripts/projects, long-term planning.
Sarah Elgin, other project leaders; discussion – all attendees.

Sunday, July 23

7:30 am
Breakfast at the Knight Center (2nd floor buffet)

8:30 am
Insights from the GEP assessment data (student responses, faculty responses);
David Lopatto
NSLC Classroom, LS311

9:45 am
Coffee break, NSLC lounge (order box lunch for Tuesday)

10:00 am
The year just past: experiences of new members implementing genomics
curriculum: Michael Foulk, Emily Furbee, Kimberly Keller, Alexa Sawa,

11:00 am
The year just past: new experiences of long-term members trying new things in
genomics curriculum: Justin DiAngelo & Amy Hark, Shan Hays, Cathy Silver
Key; as time permits, JDA on wet lab.

12:15 pm
Lunch: informal discussions (Get sandwiches, salad, etc. at the DUC (Bergson -
smoothies/salads; Delici-OSO – Mexican, vegetarian; Trattoria Verde -
pizza) or Subway

1:30 pm
Current annotation workflow: updates to the GEP web framework; working with
genes with consensus sequence errors; TSS annotation; new features and evidence
tracks on the GEP UCSC Genome Browser.
Wilson Leung, *NSLC Computer Lab*

3:00 pm  Soda/Coffee/munchies break (*NSLC Lounge*)

3:15 pm  Practice time: identifying and documenting consensus errors, using the new features in the GEP web framework, finding TSS, motif finding.

4:15 pm  Introduction to long-term planning
          Future forms for the GEP: leadership, advisory committee
          Potential scientific projects: large scale, satellite projects
          Central functions vs dispersed? IT, workshops for new members, alumni
          workshops (community)
          Financial models? Grant/foundation support, membership;
          Genomics Education Alliance concept
          Sarah Elgin, Laura Reed, Nate Mortimer
          *NSLC classroom, LS 311; build on work done by June GEP Alumni*
          *Workshop participants (see private wiki)*

6:00 pm  Dinner (*barbecue at the Elgin’s*)
          Discussion: future directions for the GEP

**Monday, July 24**

7:30 am  Breakfast at the Knight Center (*2nd floor buffet*)

8:30 am  Options for the day:

1.  RNAseq: A Closer Look at Read Mapping and Quantitation
    Jeremy Buhler, *LS 311 or NSLC computer lab*
    Exercise on using RNA-seq data posted on FlyBase.
    Wilson Leung, *NSLC computer lab*

2.  What have we learned from our current assessment data? Planning the next science education manuscript (*SCRE, CDS*).
    David Lopatto, Sarah Elgin; *NSLC classroom LS 310*.

3.  Subgroups working on preparation of curriculum and/or associated manuscripts, led by GEP members (*potential topics include next steps on “Understanding Eukaryotic Genes” led by Meg Laakso; updating the modENCODE pages – vignettes led by Chris Jones); protein folding led by Susan Parrish; similarity searching led by E Gracheva)*
    *NSLC break-out rooms.*

10:00 am  Coffee break (*NSLC Lounge*)

10:30 am  Continue subgroups from 8:30 am
OR
Computer lab open for practice, follow-up on Wilson’s presentation ( walkthrough on RNA data). WL and TA’s available.

12 noon  Lunch: informal discussions  (DUC; Starbucks; Subway; Grounds for Change)  
NSLC Computer Lab will remain open for continuing work if desired

1:15 pm  Continue discussion groups above as needed, plus long-term planning, next year’s assessment etc; form working groups

3:30  Break (sodas and munchies available)

4:00  Working groups meet

6:00  Dinner (catered, LS 311/312)  
Informal discussion, continue dialogue from above; continue working groups.

Tuesday, July 25

7:30 am  Breakfast at the Knight Center (2nd floor buffet)  
(bring bags to NSLC; must vacate dorm rooms by 11 am)

8:30 am  Working groups meet. Coffee available.  
NSLC tutorial rooms

10:00 am  Coffee break, NSLC lounge

10:30 am  Working groups report to group as a whole.

12:00 pm  Lunch (box lunches) NSLC Classroom, LS 311  
Wrap-up, future planning, commitments

2:00 pm  Depart for airport (Metro or shared rides)  
OR Galaxy 101 practice session for those staying for G-OnRamp  
NSLC computer lab
Possible working groups:

1. Planning for the future (GEP and GEA)
   - Protocol for new member workshops
   - Distributed leadership model

2. Publications:
   - Based on this 2015-2017 assessment results (David Lopatto);
   - Faculty survey? (See also #3) Student Alumni survey?
   - “Understanding Eukaryotic Genes” (Meg Laakso);
   - Similarity Searching (Elena Gracheva);
   - Updating modENCODE site (Chris Jones);
   - Protein folding (Susan Parrish);
   - The motif finding project: where are we, where do we need to be? (WL, SCRE)

3. What have we learned about managing a successful CURE? General vs bioinformatics?
   Some of this covered in the TIGs paper; can we assess other teaching features, perhaps through a faculty survey? Topics might include grading, transmitting culture of science, project ownership, being part of a larger project, configuring that curriculum to your students (key strategies for adaptation). What features of GEP are most helpful?

3. Sharing materials developed by individual GEP faculty (several topics from last year; bring your favorite materials to be critiqued and developed with your colleagues!) Example: protein structure/threading (Srebrenka Robic, June; Susan Parrish, July)

4. Streamlining the GEP annotation submission workflow to make it less redundant and error-prone (Wilson Leung)

Revised 7/7/2017 SCRE