Draft Agenda
Genomics Education Partnership Alumni Faculty Workshops
Planning the Next Stage
Washington University, June 17 – 20, 2017

Saturday, June 17

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 Village House Dining Table I, ground floor

6:00 pm Dinner (Mexican Buffet, catered)
(Dining Table 1 on 6/17)

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, June 18

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 (in absentia, June; in person in July)
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: Jenny Mierisch, Nate Mortimer, Deb Mukhopadhyay, Rivka Glaser
& Beck Burgess, Tom Giarla, Norma Velazquez-Ulloa.

11:30 am The year just past: new experiences of long-term members trying new things in
genomics curriculum: Andy Arsham (lacO flies), Nate Mortimer (parasitoid
wasp genomes).

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, *NSLC classroom, LS 311.*

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

*Monday, June 19*

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

8:30 am  Options:

1. Using RNA-seq data. Led by Wilson Leung, with contributions by Jeremy Buhler on the underlying algorithms for short read alignments
        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).
        Sarah Elgin, Chris Shaffer; *NSLC classroom LS 311.*

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; reviewing the new Fragile X site, led by Howard Granok; up-dating the modENCODE pages – vignettes- led by SCRE/Chris Jones); protein folding led by Srebrenka Robic/Susan Parrish; similarity searching led by Tony Weisstein/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 (walk-through on RNA data). WL and TA’s available.

12 noon  Lunch: informal discussions  (*DUC; Starbuck; 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, June 20**

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*)
Possible working groups:

1. Planning for the future (GEP and GEA)
   Protocol for new member workshops

2. Publications:
   Based on this 2015-2017 assessment results (CRE, June; Lopatto, July);
   “Understanding Eukaryotic Genes” (Meg Laakso);
   Similarity Searching (Tony Weisstein/Elena Gracheva).
   Fragile X site (Howard Granok)
   Updating modENCODE site (CRE, June; Chris Jones, July)
   The motif finding project: where are we, where do we need to be? (WL, CRE)

2. 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).

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. Stream-lining the GEP annotation submission workflow to make it less redundant and error-prone (Andy Arsham, WL)

Revised 6/9/2017 CRE