

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

Saturday, June 17

Travel to St. Louis

- 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 (SCRE, June; Lopatto, July);

“Understanding Eukaryotic Genes” (Meg Laakso);

Similarity Searching (Tony Weisstein/Elena Gracheva).

Fragile X site (Howard Granok)

Updating modENCODE site (SCRE, June; Chris Jones, July)

The motif finding project: where are we, where do we need to be? (WL, SCRE)

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 SCRE