

LINCS Retreat & Outreach Meeting

March 10-11, 2016

University of California, Irvine

March 10th

LINCS OUTREACH KICKOFF (2:00p – 5:00p)

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| 2:00-2:10 | Welcome from NIH (Ajay Pillai) |
| 2:10-2:40 | Walter Koroshetz (NINDS)
“Neural IPSC research: From cell in a dish to brain” |
| 2:40- 3:10 | Zak Kohane (Harvard Medical School)
“Patientonomics” |
| 3:10-3:30 | Break |
| 3:30-4:00 | LINCS Centers - Overview |
| 4:00-4:30 | Data Coordination and Integration Center
“ LINCS Data Analysis, Integration and Visualization” |
| 4:30-4:50 | Henry Rodriguez (NCI)
“Integration of Proteomics with Genomics: New Opportunities in Cancer Biology and Precision Medicine” |
| 5:00-6:30 | Poster Session |

March 11th

INSPIRATIONS AND ASPIRATIONS FOR LINCS (8:00a – 12:00p)

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| 8:00-8:30 | Jane Roskams, Allen Institute for Brain Science
“Re-envisioning vision: The Allen Institute 2.0” |
| 9:00-9:30 | Fred Gage, Salk Institute
“Modeling Human Brain Disease and Aging in vitro” |
| 9:30-10:00 | Gustavo Stolovitzky, IBM/DREAM
“The DREAM Challenges: leveraging community expertise for data analytics and biological insights” |

- 10:00-10:15 Break
- 10:15-10:45 Phil Nelson, Google
“Deep Learning applied to Biomedical Research”
- 10:45-11:15 Trey Ideker, UCSD
“Interpreting genetic variants through molecular networks”
- 11:15-12:00 Discovering and serving data in the 21st century (Panel Discussion)
Steven Finkbeiner, Moderator

Discussion of how best to provide data to the scientific community that can be used productively, how to reach target communities, training in use of data, how to use diverse data types, approaches to QC/data integration and standardization.

12:00-1:00 Break for lunch

HANDS ON WITH LINCS (1:00p – 5:00p)

Getting familiar with LINCS data

- 1:00-1:45 LINCS Transcriptional Connectivity Maps – How to use, access, query, and make sense of LINCS L1000 perturbational data
- 2:00-5 pm *Breakout Parallel Sessions: Genome molecular techniques, Proteomics track, Imaging Track, Cancer cells and iPSCs, bioinformatics*