Sunday, October 26th

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome & Opening Remarks
-	
8:05 pm	Keynote Lecture Sean Eddy, Janelia Research Campus/HHMI Computational analysis of high-throughput sequence data for neuroscience

9:05 pm Refreshments available at Bob's Pub

NOTE: Meals are in the **Dining Room** Talks are in the **Seminar Room** Posters are in the **Lobby**



Monday, October 27th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 1: Neuronal Diversity I Chair: Sacha Nelson
9:00 am	Oliver Hobert , HHMI/Columbia University Do we need deep sequencing to define and study neuronal diversity?
9:25 am	Larry Zipursky, HHMI/University of California, Los Angeles Approaching synaptic specificity through RNA seq
9:50 am	Nathaniel Heintz , Rockefeller University Molecular Phenotyping: Understanding pathophysiology and therapy at the cellular level
10:15 am	Ken Sugino , Janelia Farm Research Campus/HHMI What makes neuronal cell types different?
10:40 am	Break
11:10 am	Session 2: Neuronal Diversity II Chair: Antonella Riccio
11:10 am	Michael Rosbash, HHMI/Brandeis University mRNA and miRNA dynamics within Drosophila circadian neurons
11:35 am	Chris P. Ponting , University of Oxford <i>G&T-Seq: Combined DNA and RNA sequencing from a single cell</i>
12:00 pm	Benjamin Matthews , Rockefeller University <i>Transcriptome profiling and genome engineering in the mosquito Aedes aegypti</i>
12:15 pm	Lunch (service ends at 1pm)
2:00 pm	Session 3: Neuronal Diversity III Chair: Miriam Heiman
2:00 pm	G. Lee Henry , Janelia Farm Research Campus/HHMI Application of the INTACT system to the optic lobe of Drosophila
2:25 pm	Alexander Nord, Lawrence Berkeley National Laboratory Atlas of developmental forebrain enhancers



2:40 pm	Ivo Spiegel , Harvard Medical School Unique experience-induced gene programs in interneuron subtypes shape cortical circuits
2:55 pm	Alisa Mo, Johns Hopkins Medical School Unique patterns of epigenetic control in distinct subtypes of neocortical neurons
3:10 pm	Break
3:45 pm	Session 4: Neuronal Diversity IV Chair: Kelsey Martin
3:45 pm	Sacha B. Nelson, Brandeis University Maintaining the transcriptional identity of cortical neurons
4:10 pm	Anthony Zador , Cold Spring Harbor Laboratory Sequencing the connectome
4:35 pm	Discussion: <i>Who needs deep sequencing?</i> Moderator: Sacha Nelson
5:15 pm	Break
5:30 pm	Poster Blitz <i>(5-minutes each / 3-slide max)</i> Chair: Mike Nitabach
	Chongyuan Luo, Salk Institute Kate Abruzzi, Brandeis University Anirban Paul, Cold Spring Harbor Laboratory Fred Davis, Janelia Research Campus/HHMI Victor Luria, Harvard University Jin Billy Li, Stanford University
6:15 pm	Dinner
7:30 pm	Poster Reception
9:00 pm	Refreshments available at Bob's Pub



Tuesday, October 28th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 5: Epigenetics and Neuronal Identity I Chair: Susan Ackerman
9:00 am	Gill Bejerano , Stanford University Some basic principles of genomic data interpretation: Not quite the lean mean fighting machine
9:25 am	Hongjun Song , Johns Hopkins University School of Medicine Decoding neural transcriptomes and epigenomes via high-throughput sequencing
9:50 am	Joseph Ecker, HHMI/Salk Institute Cell type specificity and developmental dynamics of neuronal epigenomes
10:15 am	Anne E. West, Duke University Medical Center Chromatin regulation of neuronal differentiation
10:30 am	Break
11:00 am	Session 6: Epigenetics and Neuronal Identity II Chair: Nathaniel Heintz
11:00 am	Catherine Dulac , HHMI/Harvard University New insights into genomic imprinting in the adult and developing brain
11:25 am	Hynek Wichterle , Columbia University Sequencing motor neuron development
11:50 am	Kenneth S. Kosik, University of California, Santa Barbara RNAseq in iPS-derived neurons
12:15 pm	Jessica Tollkuhn, Cold Spring Harbor Laboratory Epigenetic regulation of sexual differentiation of the brain
12:30 pm	Lunch (service ends at 1pm)
1:15 pm	Tour (optional – meet at reception)



2:15 pm	Session 7: Plasticity and Activity-Dependence I Chair: Catherine Dulac
2:15 pm	Leon Reijmers , Tufts University Research Sequencing of ribosome-bound mRNA collected from the soma and dendrites of activated projection neurons
2:30 pm	Erin Schuman, Max Planck Institute for Brain The local transcriptome in neurons
2:55 pm	Wei Chen, Max Delbrück Center for Molecular Medicine Comprehensive transcriptome characterization of synaptic neuropil
3:20 pm	Kelsey Martin , University of California, Los Angeles The cytoplasmic Rbfox1 splice isoform regulates the expression of autism susceptibility genes in neurons
3:45 pm	Break
4:15 pm	Session 8: Plasticity and Activity-dependence II Chair: Ken Kosik
4:15 pm	Antonella Riccio, University College London Identification of a novel class of activity-regulated enhancers in cortical neurons
4:40 pm	Jesse M. Gray, Harvard Medical School The anatomy of mouse and human neural activity-regulated enhancers
5:05 pm	Michael N. Nitabach, Yale School of Medicine Cell-specific activity-induced transcriptomes of Drosophila brain
5:30 pm	Break
5:45 pm	Discussion: <i>Epigenetics, Stem Cells and Activity-Dependence</i> Moderator: Erin Schuman
6:30 pm	Dinner
7:45 pm	Poster Reception
9:15 pm	Refreshments available at Bob's Pub



Wednesday, October 29th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 9: Disease Models I Chair: Erin Schuman
9:00 am	Susan L. Ackerman , HHMI/The Jackson Laboratory Mutation of a CNS-specific tRNA causes ribosome stalling and neurodegeneration
9:25 am	Christopher Walsh , HHMI/Boston Children's Hospital Somatic mutation and genomic variation in the human cerebral cortex
9:50 am	Myriam Heiman , Massachusetts Institute of Technology In vivo synthetic lethal screening in the mammalian central nervous system
10:15 am	Break
10:45 am	Session 10: Disease Models Chair: G. Lee Henry
10:45 am	Joseph Buxbaum, Icahn School of Medicine at Mount Sinai Hospital Exome analyses reveal new autism genes in synaptic and chromatin networks
11:10 am	Mark Zylka, University of North Carolina School of Medicine Use of high-throughput sequencing to identify chemical risk factors for autism
11:35 am	Joshua T. Dubnau, Cold Spring Harbor Laboratory The transposon storm hypothesis of neurodegeneration
12:00 pm	Closing Discussion: <i>Where are we going?</i> Moderator: Lee Henry
12:30 pm	Lunch & Departure
1:00 pm 2:00 pm 3:00 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

