Sunday, October 9th

- 3:00 pm Check-in
- 6:00 pm Reception I
- 7:00 pm Dinner
- **8:00 pm** Keynote Talk: Chris Q. Doe, HHMI/University of Oregon *Neuronal diversity in Drosophila: How far have we come?*
- 8:40 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 10th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Introductory Remarks
9:05 am	Session 1: Drosophila Neuroblast Fate Chair: Jim Truman
9:05 am	Heinrich Reichert , University of Basel Early embryonic patterning genes act in lineage-specific postembryonic brain development of Drosophila
9:30 am	Stefan Thor , Linkoping University Topology-temporality interplay: Making unique cell types, and in proper numbers
9:55 am	Alex Gould, MRC National Institute for Medical Research Food for thought: Nutrients and neural stem cells in Drosophila
10:20 am	Break
11:00 am	Session 2: From Lineage to Fate Determination Chair: Heather Broihier
11:00 am	Tzumin Lee , Janelia Farm Research Campus/HHMI Molecular mechanisms of neuronal temporal identity
11:25 am	Claude Desplan , New York University Diversification and retinotopy of optic lobe neurons in Drosophila
11:50 am	Omer A. Bayraktar , University of Oregon Temporal patterning in transit-amplifying neural progenitors
12:05 am	Suewei Lin, Janelia Farm Research Campus/HHMI Dual functions for Notch in diversifying Drosophila lateral antennal lobe neurons
12:20 pm	Lunch
1:00 pm	Tour (optional – meet at reception)



2:15 pm	Session 3: Transcriptional Control of Neuron Fates I Chair: Chris Doe
2:15 pm	Siew-Lan Ang, National Institute for Medical Research Transcriptional control of midbrain dopaminergic neuron development
2:40 pm	Wolfgang Driever , University of Freiburg <i>Transcriptional and signaling networks controlling dopaminergic differentiation</i>
3:05 pm	Paul Taghert , Washington University School of Medicine The role of DIMM - a scaling factor for neuroendocrine cell properties
3:30 pm	Break
4:00 pm	Session 4: Transcriptional Control of Neuron Fates II Chair: Susan Dymecki
4:00 pm	Marius Wernig, Stanford University School of Medicine Direct conversion of fibroblasts to functional neurons by defined factors
4:25 pm	Hynek Wichterle , Columbia University Constructing and deconstructing motor neuron identity
4:50 pm	Stephen Crews , University of North Carolina at Chapel Hill Specification and differentiation of a Drosophila midline dopaminergic neuron
5:05 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Keynote Talk: Oliver Hobert , HHMI/Columbia University Gene regulatory mechanisms that build nervous systems: Lessons learned from the nematode C. elegans and beyond

8:40 pm Refreshments available at Bob's Pub



Tuesday, October 11th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 5: Neuron Fate Specification I Chair: Sally Temple
9:00 am	Stewart Anderson , Weill Cornell Medical College Notch signaling regulates apical versus basal neurogenesis and cortical interneuron fate determination in the medial ganglionic eminence
9:25 am	Constance L. Cepko , HHMI/Harvard Medical School <i>Teaching old retroviruses a new trick: Analysis of clones produced by progenitor cells</i> <i>expressing a specific gene</i>
9:50 am	Jeffrey D. Macklis, Harvard Medical School Molecular logic of neocortical projection neuron development, diversity, and identity
10:15 am	Break
10:55 am	Session 6: Neuron Fate Specification II Chair: Paul Taghert
10:55 am	Josh Huang , Cold Spring Harbor Laboratory Developmental origin of chandelier cells in the neocortex: Role of lineage and birth timing
11:20 am	Catarina Ramos , Molecular Medicine Institute The role of different Notch ligands in the control of spinal cord neurogenesis
11:35 am	Christopher D. Wood , Universidad Nacional Autónoma de México Development of multi-colour luciferase-based reporters for dynamic imaging of morphogen expression during dopaminergic neuron specification
11:50 am	General Discussion and/or additional talk(s)
12:30 pm	Lunch
2:00 pm	Session 7: Neuron Fate Specification III Chair: Richard A. Baines
2:00 pm	Michel Cayouette, Institut de recherches cliniques de Montréal Cell lineage and temporal identity in the developing mouse retina



2:25 pm	Susan M. Dymecki , Harvard Medical School <i>Redefining brain serotonergic neurons by genetic lineage and selective in vivo</i> <i>inhibition</i>
2:50 pm	Martyn Goulding, Salk Institute for Biological Studies Temporal control of inhibitory interneuron cell types in the developing spinal cord
3:15 pm	Break
3:45 pm	Session 8: Vertebrate Neuronal Stem Cell Fate Chair: Siew-Lan Ang
3:45 pm	Sally Temple, New York Neural Stem Cell Institute Regulating neuronal output from forebrain progenitor cells
4:10 pm	Hongjun Song, Johns Hopkins University School of Medicine Clonal analysis of neural stem cells in the adult hippocampus
4:35 pm	Setsuko Sahara , Salk Institute for Biological Studies Fgf10 regulates transition period of cortical stem cell differentiation to radial glia controlling generation of neurons and basal progenitors
4:50 pm	Zhiyong Liu , St. Jude Children's Research Hospital In vivo lineage reprogramming of cochlear supporting cells into hair cell-like cells by inducible overexpression of Atoh1 in postnatal mice
5:05 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Refreshments available at Bob's Pub



Wednesday, October 12th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 9: Neuron Type Identity I Chair: Jeffrey Macklis
9:00 am	Gerhard M. Technau , University of Mainz Morphological characterisation of the entire interneuron population in the embryonic VNC of Drosophila
9:25 am	James W. Truman, Janelia Farm Research Campus/HHMI Neuronal diversity within and between lineages of the ventral CNS of Drosophila
9:50 am	Sacha B. Nelson, Brandeis University Genetic and epigenetic determinants of neuronal phenotypes in the mouse forebrain
10:15 am	Giorgio A. Ascoli , George Mason University Towards an unambiguously identification of the known neuronal classes of the rodent hippocampus
10:30 am	Break
11:00 am	Session 10: Neuron Type Identity II Chair: Tzumin Lee
11:00 am	Heather T. Broihier , Case Western Reserve University Drosophila FoxO is regulated by microtubule disruption and drives microtubule destabilization at the neuromuscular junction
11:25 am	Richard A. Baines , University of Manchester Intrinsic determination of ion channel expression in Drosophila embryonic motoneurons
11:50 am	Meredith A. Clifford , Georgetown University Eph/ephrin signaling directs neuronal differentiation in the developing neocortex
12:05 pm	Closing Discussion
12:30 pm	Lunch and Departure (To-go boxes available in servery for those on first shuttle)
1:00 pm 1:45 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

