

Full Schedule

Sunday May 3rd

3:00 pm Check-in

6:00 pm Reception

7:00 pm Dinner

8:00 pm **Keynote Address: Huda Y. Zoghbi**, Baylor College of Medicine/HHMI
Insight about complex behaviors from the study of Rett syndrome and MeCP2

9:00 pm Refreshments available at Bob's Pub

Monday May 4th

- 7:30 am Breakfast
- 9:00 am Session 1**
Chair: Tobias Bonhoeffer
- 9:00 am **Silvia Arber**, University of Basel
Assembling motor circuits for function
- 9:30 am **Susan K. McConnell**, Stanford University
Assembling a neural circuit: wiring up the brain during development
- 10:00 am **Kelsey Martin**, University of California, Los Angeles
mRNA localization and regulated translation at the synapse during long-term neuronal plasticity
- 10:30 am Break and Group Photo
- 11:00 am Session 2**
Chair: Tobias Bonhoeffer
- 11:00 am **Lawrence Shapiro**, Columbia University
Molecular basis of cell adhesion by cadherins
- 11:30 am **Thomas C. Sudhof**, HHMI/Stanford University
Neurexins and neuroligins - Towards a molecular logic of neural circuits
- 12:00 pm **Dietmar Schmucker**, Harvard Medical School
Functional studies of Dscam receptor diversity and its role in neural circuit formation
- 12:30 pm Lunch
- 1:00 pm Tour (optional)
- 2:20 pm Session 3**
Chair: Susan McConnell
- 2:20 pm **Peter Scheiffele**, University Basel, Biozentrum
Emergence of synaptic specificity in the pontocerebellar projection system
- 2:50 pm **Graeme Davis**, University of California, San Francisco
Molecular mechanisms underlying the homeostatic modulation of synaptic transmission

- 3:20 pm **Kimberley McAllister**, University of California, Davis
MHCI molecules negatively regulate the establishment of cortical connections
- 3:40 pm **Joshua A. Weiner**, The University of Iowa
Regulation of synapse development and neuronal survival by the gamma-protocadherins
- 4:00 pm Break
- 4:30 pm Session 4**
Chair: Susan McConnell
- 4:30 pm **Patrick Kanold**, University of Maryland
Early circuits that regulate cortical development and plasticity
- 4:50 pm **Z. Josh Huang**, Cold Spring Harbor Laboratory
Development and plasticity of GABA inhibitory synapses and circuits
- 5:20 pm **Takao K. Hensch**, Harvard University
GABA circuit control of critical period plasticity
- 5:50 pm Reception
- 7:00 pm Dinner
- 8:00 pm Keynote Address: Marc Tessier-Lavigne**, Genentech
Axonal self-destruction and neurodegenerative disease
- 9:00 pm Refreshments available at Bob's Pub

Tuesday May 5th

- 7:30 am Breakfast
- 9:00 am Session 5**
Chair: Marc Tessier-Lavigne
- 9:00 am **Yuh-Nung Jan**, HHMI/University of California, San Francisco
Control of size, shape and maintenance of dendritic arbors
- 9:30 am **Alvaro Sagasti**, University of California, Los Angeles
Developmental plasticity of sensory axon arbors in the zebrafish skin
- 10:00 am **Wes Grueber**, Columbia University
Dendritic patterning by interacting extrinsic cues
- 10:30 am Break
- 11:00 am Session 6**
Chair: Marc Tessier-Lavigne
- 11:00 am **Joshua Sanes**, Harvard University
Specific synapse formation in the visual system
- 11:30 am **Thomas R. Clandinin**, Stanford University
*Dissecting photoreceptor target selection in *Drosophila**
- 12:00 pm **Hitoshi Sakano**, The University of Tokyo
Neural circuit formation in the mouse olfactory system
- 12:30 pm **Robert J. Burgess**, The Jackson Laboratory
DSCAMs in recognition and self-avoidance in the developing mouse retina
- 12:50 pm Lunch**
- 2:00 pm Poster Session I**
- 3:30 pm Break
- 4:00 pm Poster Session II**
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Keynote Address: Cori Bargmann**, HHMI/Rockefeller University
A genetic approach to connectivity and specificity

Wednesday May 6th

- 7:30 am Breakfast
- 9:00 am Session 7**
Chair: Tom Südhof
- 9:00 am **Bernardo Sabatini**, Harvard University
Mechanisms of neuromodulation in the basal ganglia
- 9:30 am **Akinao Nose**, University of Tokyo
Generation of synaptic specificity by target repulsion: Roles and transcriptional regulation of local inhibitory cues
- 10:00 am **Kang Shen**, Stanford University
Forward genetic analysis of axon-dendrite targeting and synapse formation
- 10:30 am Break
- 11:00 am Session 8**
Chair: Graeme Davis
- 11:00 am **Michael P. Stryker**, University of California, San Francisco
Interaction of neural activity and ephrin signaling in the construction of central visual maps
- 11:30 am **Tobias Bonhoeffer**, Max Planck Institute of Neurobiology
How activity changes synapses in the mammalian brain
- 12:00 pm **Marla Feller**, University of California, Berkeley
The assembly of functional circuits in the retina
- 12:30 pm Lunch (take-out boxes from server for those on first shuttle)
- 1:00 pm First shuttle to Dulles
1:45 pm Second shuttle to Dulles
2:30 pm Last shuttle to Dulles