Sunday, October 23

3:00 pm	Check-in
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- 6:00 pm Reception (Lobby)
- 7:00 pm Dinner
- 8:00 pm Welcome and Opening Remarks
- **8:00 pm** Keynote: Wolfram Schultz, University of Cambridge *Basic characteristics of the dopamine reward signal*
- 9:00 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**



Talks are 20 min + 5 min for Q&A

Monday, October 24

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 1: Olfactory learning and memory-based behavioral choice Chair: Jess Kanwal
9:00 am	Bertram Gerber , Leibniz Institute for Neurobiology <i>Motivation as inverse prediction error?</i>
9:25 am	Marta Zlatic, Janelia Research Campus/HHMI Circuit principles of memory-based behavioral choice
9:50 am	Liria M. Masuda-Nakagawa , University of Cambridge Modulatory circuitry of sensory representation in mushroom body calyx of Drosophila larva
10:15 am	Break
10:45 am	Session 1 continued: Olfactory learning and memory-based behavioral choice Chair: Jess Kanwal
10:45 am	Andreas S. Thum , University of Konstanz Anesthesia resistant memory is dependent on radish and protein kinase C function in Drosophila larvae
11:10 am	Barbara Webb, University of Edinburgh Modelling larval chemotaxis and learning
11:35 am	Session 2: Innate olfactory processing and navigation Chair: Nils Otto
11:35 am	Aravinthan Samuel, Harvard University Olfactory processing in the larval antennal lobe
12:00 pm	Marc Gershow, New York University Deciphering decision making using optogenetic reverse correlation
12:25 pm	Lunch (service ends at 1:00 pm)
1:45 pm	Session 2 continued: Innate olfactory processing and navigation Chair: Nils Otto
1:45 pm	Ibrahim Tastekin , Centre for Genomic Regulation A large-scale loss-of-function screen reveals a descending neuron involved in the sensorimotor control of Drosophila larval chemotaxis



2:10 pm	Session 3: Innate navigation Chair: Anita Burgos
2:10 pm	Markus Knaden, Max Planck Institute for Chemical Ecology, Jena The impact of Drosophila odorant receptors on larval and adult behavior
2:35 pm	Simon G. Sprecher, University of Fribourg Visual information coding in the Drosophila larva
3:00 pm	David Stern , Janelia Research Campus/HHMI Evolved differences in larval social behavior mediated by novel pheromones
3:25 pm	Break
3:45 pm	Session 4: Synapses and plasticity Chair: Sebastian Hückesfeld
3:45 pm	Brian D. McCabe , Brain Mind Institute, EPFL <i>Miniature neurotransmission is essential for synapse maturation and maintenance</i>
4:10 pm	Richard A. Baines , University of Manchester Identification of a critical period for neuronal homeostasis
4:35 pm	Matthias Landgraf , University of Cambridge Reactive oxygen species regulate activity-dependent structural plasticity
5:00 pm	Break
5:30 pm	Poster reception
7:00 pm	Dinner
8:00 pm	Session 5: Whole brain Chair: Mark Dombrovski
8:00 pm	Philipp J. Keller , Janelia Research Campus/HHMI Live imaging of the Drosophila larval nervous system at high spatio-temporal resolution
8:25 pm	Albert Cardona, Janelia Research Campus/HHMI The complete wiring diagram of Drosophila larva: Halfway there
8:50 pm	Refreshments available at Bob's Pub



Tuesday, October 25

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 6: Somatosensation Chair: Pauline Fritsch
9:00 am	Yuh-Nung Jan, HHMI/University of California, San Francisco Mechano-sensation of Drosophila larva
9:25 am	Peter Soba , University of Hamburg Integration of mechanosensory modalities and neuropeptide mediated signaling facilitates nociceptive behavior
9:50 am	Dan Tracey , Indiana University Bloomington Encoding of larval body movements and position by directionally selective ON/OFF proprioceptive neurons
10:15 am	Tihana Jovanic , Janelia Research Campus/HHMI Competitive disinhibition in early sensory processing mediates behavioral choice and sequences in Drosophila larvae
10:40 am	Break
11:10 am	Session 7: Motor Chair: David Wood
11:10 am	Wesley Grueber, Columbia University Development and function of the larval proprioceptive system
11:35 am	Hiroshi Kohsaka , University of Tokyo Local feedback on axial propagation in Drosophila larval locomotor circuits
12:00 pm	Stefan Pulver , University of St. Andrews Neuromodulatory control of motor pattern selection in the larval locomotor system
12:25 pm	Lunch (service ends at 1:00 pm)
1:15 pm	Tour (optional - meet at reception)
2:15 pm	Session 7 continued: Motor Chair: David Wood
2:15 pm	Ellie Heckscher, University of Chicago Embryonic lineage 3-3 gives rise to a diversity of sensory processing interneurons



2:40 pm	Akinao Nose , University of Tokyo <i>Circuit mechanisms that regulate motor pattern in larval Drosophila</i>
3:05 pm	Volker Hartenstein , University of California, Los Angeles Lineage-based analysis of the architecture of the subesophageal zone of the Drosophila brain
3:30 pm	Break
4:00 pm	Session 8: Behavior Chair: Anna Rist
4:00 pm	Barry Condron , University of Virginia Cooperative digging behavior in Drosophila larvae
4:25 pm	Christen K. Mirth , Monash University Regulating macronutrient intake in Drosophila melanogaster larvae
4:50 pm	Claudio R. Alonso , University of Sussex The impact of microRNA regulation on Drosophila behaviour
5:15 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Keynote: Jim Truman , University of Washington The evolution and adaptations of the larval nervous system
9:00 pm	Refreshments available at Bob's Pub



Wednesday, October 26

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 9: Development Chair: Suzana Benitez
9:00 am	Steve Stowers , Montana State University Acetylcholine/Glutamate dual neurotransmitter neurons in Drosophila larva
9:25 am	Akira Chiba , University of Miami Cdc42 interacts directly with Par6 and WASp to coordinate precise positioning and timely elaboration of aCC motoneuron dendrite
9:50 am	Chris Q. Doe , HHMI/University of Oregon Development of neural circuits generating larval locomotion
10:15 am	Break
10:45 am	Session 10: Neuroendocrine Chair: Suguru Takagi
10:45 am	Yuko Shimada-Niwa , University of Tsukuba <i>Exploring a neuroendocrine link between feeding, wandering, and pupariation</i>
11:10 am	Christian Wegener , Biocenter, University of Würzburg Behavioural and physiological functions of the brain-gut allatostatin A peptides in the Drosophila maggot
11:35 am	K. VijayRaghavan, National Centre for Biological Sciences TBD
12:00 pm	Closing Discussion /Final Remarks
12:30 pm	Lunch and Departure
12:45 pm 1:45 pm 2:45 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

