

Full Schedule

Sunday April 26th

3:00 pm Check-in

6:00 pm Reception

7:00 pm Dinner

8:00 pm **Plenary Talk**
Michael P. Nusbaum, University of Pennsylvania School of Medicine
Neuropeptide modulation in a small motor system

Monday April 27th

- 7:30 am Breakfast
- 9:00 am Session 1: Biogenic Amines and Behavioral Adaptations**
Chair: Jay Hirsh
- 9:00 am **David J. Anderson**, California Institute of Technology
The dopamine receptor DopR1 oppositely regulates two different types of arousal in Drosophila via distinct neural circuits
- 9:30 am **Aike Guo**, Chinese Academy of Sciences
Dopamine modulation in the complex behavior of Drosophila
- 10:00 am **Kyung-An Han**, Pennsylvania State University
Dopamine in Drosophila behavior
- 10:30 am Break and Group Photo
- 11:00 am Session 1 (continued)**
- 11:00 am **Edward Kravitz**, Harvard Medical School
Amines and social behavior in Drosophila melanogaster
- 11:30 am **Hans-Joachim Pflueger**, Free University Berlin (Freie Universität)
Tyramine and octopamine, a transmitter pair of specific action in insects
- 12:00 pm **Serge Birman**, Centre National de la Recherche Scientifique (CNRS)
Drosophila lacking neural dopamine show defects in light-induced behaviors
- 12:15 pm **Jay Hirsh**, University of Virginia
Dopamine is required in drosophila for extreme light sensitivity of circadian entrainment, but not for positive masking
- 12:30 pm Lunch
- 1:15 pm Tour (optional)
- 2:15 pm Session 2: Circadian Rhythms and Sleep**
Chair: Lynn Riddiford
- 2:15 pm **Charlotte Helfrich-Forster**, University of Regensburg
The neuropeptide Pigment-Dispersing Factor adjusts period and phase of Drosophila's circadian clock

- 2:45 pm **Paul Taghert**, Washington University School of Medicine
Neuropeptide signaling underlying modulation of the circadian neural circuit
- 3:15 pm **Justin Blau**, New York University
*Neurobiology of the *Drosophila* circadian system*
- 3:30 pm Break
- 4:00 pm Session 2 (continued)**
- 4:00 pm **Monika Stengl**, University of Kassel
*Circadian pacemaker coupling by multi-peptidergic neurons in the circadian system of the cockroach *Leucophaea maderae**
- 4:30 pm **Leslie C. Griffith**, Brandeis University
PDF is a wake-promoting peptide
- 5:00 pm **Ralph J. Greenspan**, The Neurosciences Institute
*Development meets neuromodulation: The EGFR/ERK signaling system and sleep in *Drosophila**
- 5:30 pm **Paul Shaw**, Washington University
Use-dependent plasticity in clock neurons regulates sleep need
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Poster Session 1**

Tuesday April 28th

- 7:30 am Breakfast
- 9:00 am Session 3: Peptidergic Systems**
Chair: Mike Adams
- 9:00 am **Dick R. Nassel**, Stockholm University
Peptidergic neuromodulation in the Drosophila brain
- 9:30 am **Christian Wegener**, Philipps-Universität Marburg
Neuroendocrinology in Drosophila: A peptidomic approach
- 10:00 am **Ping Yin**, University of Illinois at Urbana - Champaign
From genome to peptidome to function: Characterization of insect neuropeptides
- 10:15 am Break
- 11:00 am Session 4: Strategies for Studies of Peptidergic Systems**
Chair: Mike Adams
- 11:00 am **Joachim Schachtner**, Phillips-University of Marburg
Neuropeptides in insect antennal lobes: Identification, localization, regulation and putative functions
- 11:30 am **James W. Truman**, Janelia Farm Research Campus/HHMI
The search for modulatory circuits
- 12:00 pm **General Discussion**
- 12:15 pm Lunch
- 2:00 pm Session 5: Modulators, Learning and Memory**
Chair: Dick Nassel
- 2:00 pm **Michael O'Shea**, University of Sussex
Diffusive NO volume signaling in the mushroom body
- 2:30 pm **Troy Zars**, University of Missouri
Mechanisms of place learning in Drosophila
- 3:00 pm **Scott Waddell**, University of Massachusetts Medical School
Motivational control of appetitive memory retrieval
- 3:30 pm Break

- 4:00 pm** **Poster Session 2**
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm** **Session 6: Modulators and Behavioral Sequences**
Chair: Charlotte Helfrich-Forster
- 8:00 pm **Mike Adams**, University of California, Riverside
Chemical coding of innate behavioral sequences
- 8:30 pm **Benjamin H. White**, National Institutes of Health
*Characterization of a neuromodulator-mediated command system for wing expansion in *Drosophila**
- 9:00 pm **Barry Dickson**, Research Institute of Molecular Pathology, Vienna
*Sex peptide and the modulation of female mating behaviour in *Drosophila**
- 9:30 pm **Young-Joon Kim**, Gwangju Institute of Science and Technology (GIST)
Sex peptide receptor mediates actions of multiple ligands
- 9:45 pm Refreshments available at Bob's Pub

Wednesday April 29th

- 7:30 am Breakfast
- 9:00 am Session 7: Cellular Analysis of Modulator Actions**
Chair: Monika Stengl
- 9:00 am **Michael N. Nitabach**, Yale School of Medicine
Cellular dissection of neuropeptide signals using membrane-tethered peptide ligands
- 9:30 am **Diane K. O'Dowd**, HHMI/University of California, Irvine
*Modulation of burst firing in adult *Drosophila* antennal lobe neurons*
- 10:00 am **Edwin Levitan**, University of Pittsburgh
Presynaptic signaling and neuropeptide vesicle dynamics
- 10:30 am **Åsa M. E. Winther**, Stockholm University
*Presynaptic peptidergic modulation of olfactory receptor neurons in *Drosophila**
- 10:45 am Break
- 11:15 am Session 8: Open Discussion**
- 12:15 pm Lunch (take out boxes from serverly for those on first shuttle) and Departure
- 12:30 pm First shuttle to Dulles
- 1:15 pm Second shuttle to Dulles
- 2:00 pm Last shuttle to Dulles