

Sunday, October 27th

- 3:00 pm Check-in
- 6:00 pm Reception (*Lobby*)
- 7:00 pm Dinner
- 8:00 pm **Session1: Poster Blitz!****
3-minute (2-slide) talks by poster presenters
- 9:30 pm Refreshments available in Bob's Pub

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

Monday, October 28th

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 2: Opening remarks and Keynote Lecture**
Chair: Lynn Riddiford
- 9:05 am **Keynote Lecture:**
David J. Anderson, HHMI/California Institute of Technology
Genetic dissection of emotion circuits in flies and mice
- 10:00 am Break
- 10:30 am Session 3: Social behavior**
Chair: Darcy Kelly
- 10:30 am **Klaus Hartfelder**, University of São Paulo
From one make two – hormones and signaling pathways in caste development of honey bees
- 11:00 am **Catherine Dulac**, HHMI/Harvard University
Molecular and neural architecture of instinctive social behavior in the mouse
- 11:30 pm **Larry J. Young**, Emory University School of Medicine
The neurobiology of social bonding: Implications for the development of novel therapies for Autism
- 12:00 pm Lunch
- 1:00 pm Tour (*optional - meet at reception*)
- 2:00 pm Session 4: Sex-specific behaviors**
Chair: John Wingfield
- 2:00 pm **Barry Dickson**, Janelia Farm Research Campus/HHMI
*Central processing of signals that determine sexual receptivity of *Drosophila* females*
- 2:30 pm **Bruce Baker**, Janelia Farm Research Campus/HHMI
*Redundant pathways specify male courtship in *Drosophila melanogaster**
- 3:00 pm **Nirao Shah**, University of California, San Francisco
Neural and hormonal control of sexually dimorphic behaviors
- 3:30 pm Break

Hormonal Control of Circuits for Complex Behaviors

- 4:00 pm **Darcy B. Kelley**, Columbia University
Generating sexually differentiated vocal behaviors: Hormone action on neural circuits
- 4:30 pm **Lora B. Sweeney**, Salk Institute for Biological Studies
Spinal circuit remodeling during developmental transitions in motor behavior
- 4:45 pm Poster Reception
- 6:45 pm Dinner
- 8:00 pm** **Session 5: Development of Complex Behaviors**
Chair: Scott Sternson
- 8:00 pm **Mark S. Blumberg**, The University of Iowa
On the origins of complex behaviors: From innateness to epigenesis
- 8:45 pm Open Discussion
- 9:00 pm Refreshments available at Bob's Pub

Tuesday, October 29th

7:30 am Breakfast (*service ends at 8:45am*)

9:00 am Session 6: Learning and memory
Chair: Ki Goosens

9:00 am **Joseph LeDoux**, New York University
Learning and life: Association mechanisms in Metazoan (and pre-Metazoan?) organisms

9:45 am **Toshihiro Kitamoto**, University of Iowa
A novel role for ecdysone in Drosophila conditioned behavior: Linking GPCR-mediated non-canonical steroid action to cAMP signaling in the adult brain

10:15 am Break

10:45 am Session 7: Feeding behavior
Chair: Scott Sternson

10:45 am **Nick Betley**, Janelia Farm Research Campus/HHMI
Motivational properties and neural circuitry regulating feeding behavior

11:15 am **Michael P. Nusbaum**, University of Pennsylvania, Perelman School of Medicine
State-dependent hormonal modulation of an unchanged motor pattern

11:45 pm **Michael J. Pankratz**, University of Bonn
The power of few: Action selection by neurohormone Hugin producing cells in the CNS of Drosophila

12:15 pm **Joshua H. Jennings**, University of North Carolina at Chapel Hill
Precise extended amygdala and hypothalamic circuit modules govern feeding processes

12:30 pm Lunch

2:00 pm Session 8: Stress behavior
Chair: David Anderson

2:00 pm **John C. Wingfield**, University of California, Davis
Neuroendocrine responses to territorial challenges in songbirds: changes with season and context

Hormonal Control of Circuits for Complex Behaviors

- 2:30 pm **David Crews**, University of Texas at Austin
Epigenetic transgenerational inheritance alters stress responses in a sexually dimorphic manner
- 3:00 pm **Ki A. Goosens**, Massachusetts Institute of Technology
Thinking outside the HPA "Box": A ghrelin-growth hormone axis for stress-related dysfunction in affective circuits
- 3:30 pm Break
- 4:00 pm Session 9: Environmentally induced behaviors**
Chair: Jim Truman
- 4:00 pm **Mario de Bono**, Medical Research Council (MRC)
Controlling behavioral state by tonically signalling neural circuits
- 4:30 pm **Frederic Libersat**, Ben Gurion University of the Negev
Neuromodulation of host behavior by a parasitoid wasp
- 5:00 pm **Lynn M. Riddiford**, Janelia Farm Research Campus/HHMI
Hormonal control of wandering behavior in Drosophila: Is there a master switch neuron?
- 5:30 pm **Akhila Rajan**, Harvard University
Dissecting neural circuits in fat sensing using fruit flies
- 5:45 pm Poster Reception
- 7:00 pm Dinner
- 8:00 pm Refreshments available in Bob's Pub

Wednesday, October 30th

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 10: Behavioral programs**
Chair: Barry Dickson
- 9:00 am **Alex Keene**, University of Nevada
Localization of insulin receptor function in metabolic regulation of sleep
- 9:15 am **Dusan Zitnan**, Institute of Zoology, Slovak Academy of Sciences
ETH controls neuroendocrine pathways required for insect ecdysis and reproduction
- 9:45 am **James W. Truman**, Janelia Farm Research Campus/HHMI
Peptidergic networks and the organization of behavioral sequences
- 10:15 am **Benjamin H. White**, National Institute of Mental Health/NIH
*A hormonally controlled positive feedback loop mediates the wing expansion decision in *Drosophila**
- 10:45 am Break
- 11:15 am General Discussion**
- 11:45 am Lunch and Departure
- 12:15 pm First shuttle to Dulles
1:15 pm Second shuttle to Dulles
2:15 pm Last shuttle to Dulles