

Schedule at a Glance

NOTE:
All meals are in the **Dining Room**
All talks are in the **Seminar Room**
Posters are located in the **Synapse Room**

Sunday November 9th

3:00 pm Check-in
6:00 pm Reception
7:00 pm Dinner
8:00 pm Refreshments available at Bob's

Monday November 10th

7:30 am Breakfast
9:00 am Session 1: Early Sensory Processing in Plasticity
10:30 am Break and Group Photo
11:00 am Session 2: Antennal Lobe to Mushroom Bodies
12:30 pm Lunch
1:00 pm Tour (optional)
2:00 pm Session 3: Mushroom Bodies
3:30 pm Break
4:00 pm Session 4: Reward and Aversive Learning, Bioamines I
5:30 pm Reception
6:30 pm Dinner
7:30 pm Poster Reception

Tuesday November 11th

7:30 am Breakfast
9:00 am Session 5: Reward and Aversive Learning, Bioamines II
10:30 am Break
11:00 am Session 6: STM and LTM Transition
12:30 pm Lunch
2:00 pm Session 7: Social Learning
3:30 pm Break
4:00 pm Session 8: Physiological States
6:00 pm Reception
7:00 pm Dinner
8:00 pm Poster Reception

Wednesday November 12th

7:30 am Breakfast
9:00 am Session 9: Computational Models and Signaling
10:00 am Break
10:30 am Session 10: Molecular Mechanisms
11:30 am Closing Remarks
11:45 am Lunch (take out boxes from servery) and Departure
12:00 pm First shuttle to Dulles
12:45 pm Second shuttle to Dulles
1:30 pm Last shuttle to Dulles

Full Schedule

Sunday, November 9th

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|---------|---------------------------------|
| 3:00 pm | Check-in |
| 6:00 pm | Reception |
| 7:00 pm | Dinner |
| 8:00 pm | Refreshments available at Bob's |

Monday, November 10th

- 7:30 am Breakfast
- 9:00 am Session 1: Early Sensory Processing in Plasticity**
Chair: Ron Davis
- 9:00 am **Leslie C. Griffith**, Brandeis University
Learning and presynaptic modulation
- 9:30 am **Kathleen K. Siwicki**, Swarthmore College
Assessing the role of gustatory sensory inputs in Drosophila courtship conditioning
- 10:00 am **C. Giovanni Galizia**, Universität Konstanz
Bees, brains and behavior: The role of neural networks in insect olfaction
- 10:30 am Break and Group Photo
- 11:00 am Session 2: Antennal Lobe to Mushroom Bodies**
Chair: Ron Davis
- 11:00 am **Brian Smith**, Arizona State University
Distributed components of plasticity in early sensory processing: The antennal lobe
- 11:30 am **Randolf Menzel**, Freie Universität Berlin
Learning and memory in the honeybee: Behavior, neural mechanisms and cellular correlates
- 12:00 pm **Martin Heisenberg**, University of Wuerzburg
Can memory traces be localized by circuit genetics?
- 12:30 pm Lunch
- 1:00 pm Tour (optional)
- 2:00 pm Session 3: Mushroom Bodies**
Chair: Brian Smith
- 2:00 pm **Ronald Davis**, Baylor College of Medicine
Olfactory memory traces as detected by function optical imaging
- 2:30 pm **Krystyna Keleman**, Research Institute of Molecular Pathology
Function of the Drosophila CPEB protein Orb2 in long-term courtship conditioning

Learning and Memory: A Synthesis of Flies and Honeybees

- 3:00 pm **Aike Guo**, Chinese Academy of Sciences
Mushroom body functions as “noise” inhibitor in visual cognition-like behaviors of Drosophila
- 3:30 pm Break
- 4:00 pm** **Session 4: Reward and Aversive Learning, Bioamines I**
Chair: Brian Smith
- 4:00 pm **Scott Waddell**, University of Massachusetts Medical School
Motivational control of memory retrieval in Drosophila
- 4:30 pm **Andreas S. Thum**, University of Fribourg
The role of dopaminergic neurons in Drosophila Larval olfactory learning
- 5:30 pm Reception
- 6:30 pm Dinner
- 7:30 pm** **Poster Reception**

Tuesday, November 11th

- 7:30 am Breakfast
- 9:00 am Session 5: Reward and Aversive Learning, Bioamines II**
Chair: Randolph Menzel
- 9:00 am **Kyung-An Han**, Pennsylvania State University
Neuromodulatory mechanisms underlying olfactory conditioning in Drosophila
- 9:30 am **Katsuo Furukubo-Tokunaga**, University of Tsukuba
Distinctive neuronal networks and biochemical pathways for appetitive and aversive memory in Drosophila larvae
- 10:00 am **Martin Giurfa**, Centre National de la Recherche Scientifique (CNRS)
Aversive learning in honeybees revealed by the olfactory conditioning of the sting extension reflex
- 10:30 am Break
- 11:00 am Session 6: STM and LTM Transition**
Chair: Randolph Menzel
- 11:00 am **Thomas Preat**, Centre National de la Recherche Scientifique (CNRS)
Dopamine and the DAMB receptor gate the transition between short-term and long-term memory in Drosophila
- 11:30 am **Yi Zhong**, Cold Spring Harbor Laboratory
Gating memory consolidation in Drosophila
- 12:00 pm **Jean-Maurice Dura**, Institute of Human Genetics
Uncoupling long-term from short-term memory of courtship conditioning in Drosophila
- 12:30 pm Lunch
- 2:00 pm Session 7: Social Learning**
Chair: C. Giovanni Galizia
- 2:00 pm **Alison R. Mercer**, University of Otago
Royal manipulation of aversive learning in young worker bees
- 2:30 pm **Geraldine A. Wright**, Newcastle University
The roles of pre- and post-ingestive information in aversive appetitive olfactory learning by honeybees

Learning and Memory: A Synthesis of Flies and Honeybees

- 3:00 pm **Marc A. Seid**, Smithsonian Tropical Research Institute
Repertoire size, behavioral flexibility and the ant brain
- 3:30 pm Break
- 4:00 pm** **Session 8: Physiological States**
Chair: C. Giovanni Galizia
- 4:00 pm **Jerry C. P. Yin**, University of Wisconsin-Madison
Sleep and memory formation
- 4:30 pm **Toshi Kitamoto**, University of Iowa
The molting hormone ecdysone regulates courtship memory in Drosophila
- 5:00 pm **Tadeusz J. Kawecki**, University of Lausanne
Genetic, nutritional and evolutionary relationships between demographic and cognitive aging in Drosophila
- 6:00 pm Poster Reception
- 7:00 pm Dinner
- 8:00 pm Poster Reception

Wednesday, November 12th

- 7:30 am Breakfast
- 9:00 am Session 9: Computational Models, Signaling and Molecular Mechanisms**
Chair: Leslie Griffith
- 9:00 am **Jan Wessnitzer**, University of Edinburgh
Computational models of the olfactory learning circuit
- 9:30 am **Minoru Saitoe**, Tokyo Metropolitan Institute for Neuroscience
Functional significance of Mg²⁺ block in associative learning and memory
- 10:00 am **Makis Skoulakis**, Alexander Fleming Research Center
Interdependence of associative and non-associative learning? Premature habituation blocks associative learning
- 10:30 am Closing Remarks
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