Sunday, May 15th

3:00 pm Check-in

6:00 pm Reception (Lobby)

7:00 pm Dinner

8:15 pm Opening Lecture: Randolf Menzel, Freie Universität Berlin

Mushroom bodies and insect intelligence: From Dujardin to the present

Chair: Ron Davis

9:15 pm Refreshments available at Bob's Pub

Monday, May 16th

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 1: Molecular systems underlying learning and memory Chair: Martin Giurfa
9:00 am	Efthimios (Makis) Skoulakis , Alexander Fleming Biomedical Sciences Research Center The receptor tyrosine kinase Alk signals through Nf-1 and is essential for size determination and learning
9:30 am	Ron L. Davis, The Scripps Research Institute Florida Elongator function and long-term memory
10:00 am	Dorothea Eisenhardt , Freie Universitat Berlin The ubiquitin-proteasome system (UPS) mediates the balance between long-term memories for classical conditioning and extinction in the honeybee (Apis mellifera)
10:30 am	Kausik Si , The Stowers Institute for Medical Research The role of self-sustaining amyloidogenic state of Drosophila Orb2 in persistence of memory
11:00 am	Break
11:30 am	Session 2: Student/Postdoc Session Chair: Martin Giurfa
11:30 am	Isaac Cervantes-Sandoval, The Scripps Research Institute Florida Drosophila DPM memory traces for aversive vs appetitive olfactory classical conditioning
11:45 am	Theo Mota, Centre National de la Recherche Scientifique (CNRS) Color modulates olfactory learning in honeybees by an occasion setting mechanism
12:00 pm	Tyler Ofstad , HHMI Janelia Farm/University of California, San Diego <i>Place learning in Drosophila</i>
12:15 pm	Julien Sejourne, Centre National de la Recherche Scientifique (CNRS) Gating long-term memory
12:30 pm	Lunch

1:15 pm	Tour (optional - meet at reception)
2:15 pm	Session 3: Roles for dopamine Chair: Leslie Griffith
2:15 pm	Hiromu Tanimoto , Max-Planck Institute of Neurobiology Dopamine signals for the formation of olfactory memory in Drosophila
2:45 pm	Krystyna Keleman , Research Institute of Molecular Pathology Dopamine neurons modulate pheromone responses in Drosophila courtship learning
3:15 pm	Thomas Preat , Centre National de la Recherche Scientifique (CNRS) Dopaminergic neurons antagonistically control the two forms of consolidated memory in Drosophila
3:45 pm	Break
4:15 pm	Session 4: Cognitive aging Chair: Ron Davis
4:15 pm	Paul Shaw , Washington University Increased dopamine signaling delays functional senescence in behavioral and structural plasticity
4:45 pm	Sean McBride , University of Pennsylvania Pharmacological and genetic reversal of age-dependent cognitive deficits attributable to decreased presentilin function
5:15 pm	Minoru Saitoe , Tokyo Metropolitan Institute for Neuroscience Regulation of Drosophila age-related memory impairment by glial cells
5:45 pm	Conclusion of Session 4 / Discussion
6:15 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 5: Poster Reception and Informal Discussions
9:30 pm	Refreshments available at Bob's Pub

Tuesday, May 17th

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 6: Networks underlying learning and memory Chair: Leslie Griffith
9:00 am	Andreas S. Thum , University of Fribourg Drosophila larvae establish appetitive olfactory memories via mushroom body neurons of embryonic origin
9:30 am	Andre Fiala, University of Göttingen Odour generalization and discrimination learning in Drosophila
10:00 am	Jean-Christophe Sandoz , Centre National de la Recherche Scientifique (CNRS) Neural plasticity related to long-term memory in the olfactory pathway of the honeybee
10:30 am	Break
11:00 am	Session 7: Networks underlying learning and memory (continued) Chair: Martin Giurfa
11:00 am	Randolf Menzel, Freie Universität Berlin Neural signatures of learning and memory retrieval in mushroom body extrinsic neurons
11:30 am	Yi Zhong, Cold Spring Harbor Laboratory Gating long-term memory formation
12:00 pm	Li Liu , Institute of Biophysics, Chinese Academy of Sciences Differential roles of the fan-shaped body and the ellipsoid body in visual pattern memory of Drosophila
12:30 pm	Lunch
2:00 pm	Session 8: Redundancy and parallelism Chair: Martin Giurfa
2:00 pm	Joshua T. Dubnau, Cold Spring Harbor Laboratory Parallel processing of olfactory memories
2:30 pm	Leslie C. Griffith, Brandeis University Sensory cue redundancy in courtship learning: Many ways to learn the same lesson

3:00 pm	Brian H. Smith , Arizona State University The problem with distributed plasticity, and some potential solutions
3:30 pm	Break
4:00 pm	Session 9: Cognition Chair: Ron Davis
4:00 pm	Martin Giurfa, Centre National de la Recherche Scientifique (CNRS) Learning about concepts with a miniature brain
4:30 pm	Bruno van Swinderen , Queensland Brain Institute Visual competiton and brain dynamics in the fly and the bee
5:00 pm	Aike Guo, Chinese Academy of Sciences Neural basis of behavioral flexibility in Drosophila
5:30 pm	Conclusion of Session 9 / Discussion
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 10: Poster Reception and Informal Discussions
9:30 pm	Refreshments available at Bob's Pub

Wednesday, May 18th

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 11: Behavioral variability, taste, sleep, and learning Chair: Leslie Griffith
9:00 am	Scott Waddell, University of Massachusetts Medical School Remembering nutrient quality of sugar in Drosophila
9:30 am	Jerry C.P. Yin, University of Wisconsin-Madison Sleep-associated dCREB2-responsive transcription
10:00 am	Bjoern Brembs , Freie Universität Berlin Action – outcome evaluation: FoxP in Drosophila self-learning
10:30 am	Break
11:00 am	Session 12: Learning in an ecological and evolutionary context Chair: Ron Davis
11:00 am	Walter M. Farina , University of Buenos Aires Olfactory experiences within the beehives – Long lasting implications of precocious learning
11:30 am	Frederic Mery , Centre National de la Recherche Scientifique (CNRS) The social fly: From simple interaction to social transmission in Drosophila
12:00 pm	Reuven Dukas , McMaster University Evolutionary significance of learning in the context of sexual behavior
12:30 pm	Discussion / Concluding Remarks
12:45 pm	Lunch and Departure (to-go boxes available in servery for those on the first shuttle)
1:15 pm 1:45 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles