Sunday, March 5

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome & Opening Remarks (Organizers)
8:05 pm	Plenary Talks Chair: Glenn Turner
8:05 pm	Richard Axel , HHMI/Columbia University <i>Representations of novelty and familiarity in a mushroom body compartment</i>
8:50 pm	Larry F. Abbott, Columbia University Modeling the mushroom body
9:35 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**



Monday, March 6

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Plenary Talk Chair: Gerry Rubin
9:00 am	Nate Sawtell , Columbia University Generation and subtraction of expectations in cerebellum-like structures
9:45 am	Break
10:15 am	Session 1 Chair: Thomas Preat
10:15 am	Yoshinori Aso , Janelia Research Campus/HHMI Beyond EM reconstruction of the mushroom body
10:40 am	Tzumin Lee , Janelia Research Campus/HHMI Development of Drosophila mushroom bodies
11:05 am	Gabriella Wolff, University of Washington An ancient origin of the mushroom body
11:30 am	Lunch (service ends at 1pm)
1:00 pm	Session 2 Chair: Ron Davis
1:00 pm	Marta Zlatic, Janelia Research Campus/HHMI Circuits principles of memory-based behavioral choice
1:25 pm	Gregory S. Jefferis , MRC Laboratory of Molecular Biology Circuit logic of the lateral horn and its relationship to the mushroom body
1:50 pm	James M. Jeanne, Harvard Medical School Olfactory processing channels organize into functional clusters in the lateral horn
2:15 pm	Break



2:45 pm	Session 3 Chair: Nate Sawtell
2:45 pm	Mark Stopfer, National Institutes of Health Oscillatory integration windows in Kenyon cells
3:10 pm	Davi Bock , Janelia Research Campus/HHMI <i>Tracing memory circuits in adult Drosophila using a whole-brain</i> <i>electron microscopy data set</i>
3:35 pm	Gaia Tavosanis , DZNE The adult mushroom body calyx microglomerular synaptic complex
4:00 pm	Pengyu Hong , Brandeis University Learning to automatically trace 3D neurons using deep-transfer-learning
4:25 pm	Break
4:45 pm	FAFB Session <i>(optional)</i> Introduction of the full adult fly brain (FAFB) EM data set, ground rules for visitor collaborations and the Wellcome Trust grant focusing on tracing in the MB.
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Plenary Talks Chair: Vanessa Ruta
8:00 pm	Daniel Dombeck , Northwestern University Exploring the mouse navigation system with high-resolution imaging and virtual reality
8:45 pm	Jesse Goldberg, Cornell University Dopaminergic error signals in birdsong support a general model of basal ganglia dependent learning
9:30 pm	Refreshments available at Bob's Pub



Tuesday, March 7

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 4 Chair: Krystyna Keleman
9:00 am	Andreas S. Thum , University of Konstanz Genetic dissection of aversive associative olfactory learning and memory in Drosophila larvae
9:25 am	Bertram Gerber , Leibniz Institute for Neurobiology The mnemonic architecture of the larval Drosophila mushroom body
9:50 pm	Chan Lin , University of Maryland Baltimore County From no calyx to visual calyx: Development of the whirligig beetle's mushroom body supports the calyx as an add-on neuropil to the MB ground pattern circuitry
10:15 am	Break
10:45 am	Session 5 Chair: Daniel Dombeck
10:45 am	Ron L. Davis , Scripps Research Institute, Florida Molecular neurobiology of memory suppression and active forgetting
11:10 am	Yi Zhong , Cold Spring Harbor Laboratory <i>Exploring the molecular mechanism in protecting labile memory in Drosophila</i>
11:35 am	Gero Miesenböck, University of Oxford <i>Time to decide</i>
12:00 pm	Ilona C. Grunwald Kadow , Max-Planck Institute of Neurobiology/Technical University of Munich <i>Internal state-dependent role of dopamine in valence</i>
12:25 pm	Lunch (service ends at 1pm)
1:15 pm	Tour (optional – meet at reception)



2:15 pm	Session 6 Chair: Scott Waddell
2:15 pm	Krystyna Keleman , Janelia Research Campus/HHMI Persistent activity in recurrent circuit underlies courtship memory
2:40 pm	Glenn Turner , Janelia Research Campus/HHMI <i>The mushroom body and learning - flexibly assigning valence to odors</i>
3:05 pm	Thomas Preat , Centre National de la Recherche Scientifique (CNRS) <i>A pair of serotonergic neurons controls long-term memory consolidation in</i> <i>Drosophila</i>
3:30 pm	Break
4:00 pm	Session 7 Chair: Greg Jefferis
4:00 pm	Vanessa Ruta , Rockefeller University Coordinated and compartmentalized neurodmodulation shapes flexible olfactory processing in the Drosophila mushroom body
4:25 pm	Seth Tomchik , Scripps Florida Dopamine and cAMP-dependent plasticity produce plasticity in intrinsic mushroom body neurons that mimic conditioning effects
4:50 pm	Break
5:15 pm	Reception
7:00 pm	Dinner
8:00 pm	Plenary Talks Chair: Gerry Rubin
8:00 pm	Rui M. Costa , Columbia University Starting new actions and learning from it
8:45 pm	Josh Dudman, Janelia Research Campus/HHMI The less mysterious motivational functions of dopamine
9:30 pm	Refreshments available at Bob's Pub



Wednesday, March 8

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 8 Chair: Sarah Farris
9:00 am	Ashok Litwin-Kumar , Columbia University Modeling distributed learning in the Drosophila mushroom body
9:25 am	Ann-Shyn Chiang , National Tsing Hua University Long-term memory requires sequential protein synthesis in three subsets of mushroom body output neurons in Drosophila
9:50 am	Hiromu Tanimoto , Tohoku University Visualization and neuronal control of memory-guided choice behavior
10:15 am	Break
10:45 am	Session 9 Chair: Vanessa Ruta
10:45 am	Andre Fiala , University of Göttingen Monitoring learning-induced plasticity in single Kenyon cells in Drosophila melanogaster
11:10 am	Scott Waddell , University of Oxford <i>Re-evaluation of learned information in Drosophila</i>
11:35 am	Closing Discussion
12:15 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

