Schedule at a Glance

Sunday May 11th

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3:00 pm	Check-in
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Welcome
8:15 pm	Keynote Presentation

NOTE: All meals are in the Dining Room All talks are in the Auditorium Posters are located in the Gallery and the Synapse Room

Monday May 12th

8:00 am	Breakfast
9:00 am	Session 1: Comparative Anatomy/ Evolution of the Central Complex
10:00 am	Break and Group Photo
10:30 am	Session 1 continued
11:00 am	General Discussion
11:30 pm	Tour (optional)
12:00 pm	Lunch
1:30 pm	Session 2: Development and Anatomy
2:45 pm	Break
3:15 pm	Session 2 continued
4:15 pm	General Discussion
5:00 pm	Report from the Nomenclature Committee
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 3: Imaging, Recording, and Manipulation Neurons
9:15 pm	Poster Reception

Tuesday May 13th

8:00 am	Breakfast
9:00 am	Session 4: Vision and the Central Complex
11:00 am	General Discussion
12:00 pm	Lunch
1:30 pm	Session 5: Locomotion
3:10 pm	Break
4:15 pm	Session 5 continued
5:00 pm	General Discussion
6:00 pm	Dinner
8:00 pm	Keynote Presentation
9:00 pm	Poster Reception

Wednesday May 14th

Breakfast
Session 6: Thoracic Ganglion
Break
Session 6 continued
General Discussion
Future Meeting Discussion
Lunch (Boxed lunch & shuttles to Dulles available)
First shuttle to Dulles
Second shuttle to Dulles
Last shuttle to Dulles

Full Schedule

Sunday May 11th

- 3:00 pm Check-in
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Welcome Julie Simpson
- 8:15 pm Keynote Presentation

Nick J. Strausfeld, University of Arizona *Mid-Line neuropils: Homologies and functional convergence across Arthropods*

Monday May 12th

8:00 am	Breakfast
9:00 am	Session 1: Comparative Anatomy/ Evolution of the Central Complex Chair: Nick Strausfeld
9:00 am	Rudi Loesel , Institut of Biology II Evolutionary origin of the central complex
9:30 am	Clifton Ragsdale, University of Chicago Sensory maps in octopus brain
10:00 am	Break and Group Photo
10:30 am	Michael Kunst , Institute for Zoology Neural circuits in the central complex mediating sound production in grasshoppers
10:45 am	Makoto Mizunami , Tohoku University In which brain areas are sensory signals converted into motor commands for behavioral responses?
11:00 am	General Discussion
11:30 pm	Tour (optional)
12:00 pm	Lunch
1:30 pm	Session 2: Development and Anatomy Chair: Kei Ito
1:30 pm	Kei Ito , The University of Tokyo Organization of the Drosophila central complex
2:00 pm	George S. Boyan, Biozentrum der Ludwig-Maximilians-Universität Building the embryonic central complex of the grasshopper
2:15 pm	Heinrich Reichert , University of Basel Central complex development: Amplification of neural proliferation by intermediate progenitor cells
2:30 pm	Takeshi Awaskai, University of Massachusetts Medical School Development of the central complex in Drosophila
2:45 pm	Break

3:15 pm	Volker Hartenstein , University of California, Los Angeles Larval development and metamorphosis of the central complex
3:30 pm	Douglas Armstrong , University of Edinburgh Mapping the structure and development of the Drosophila central complex
3:45 pm	Alberto Ferrús , Instituto Cajal (CSIC) Developmental, ultrastructural and functional analyses of the Drosophila ellipsoidal body
4:00 pm	Markus Noll, University of Zurich Poxn brain functions regulating Drosophila courtship behavior
4:15 pm	General Discussion
5:00 pm	Report from the Nomenclature Committee
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 3: Imaging, Recording, and Manipulation Neurons Chair: Julie Simpson
8:00 pm	Vivek Jayaraman , Janelia Farm Research Campus/HHMI A physiological investigation of the Drosophila central complex
8:15 pm	Jean-Rene Martin , CNRS, UPR Long term in-vivo visualisation of both neuronal or glial cells activity of the whole brain of Drosophila, by bioluminescence
8:30 pm	Michael N. Nitabach , Yale School of Medicine In vivo analysis of physiological roles of ion channels and neuropeptides in circadian control of locomotion
8:45 pm	Fumika Hamada , Brandeis University An internal sensor for ambient warming in Drosophila
9:00 pm	Julie H. Simpson, Janelia Farm Research Campus/HHMI
	Genetic manipulation of neural activity to perturb motor behavior

Tuesday May 13th

8:00 am	Breakfast
9:00 am	Session 4: Vision and the Central Complex Chair: Aike Guo
9:00 am	Uwe Homberg , Universitaet Marburg <i>The central complex in the brain of the desert locust: An internal celestial</i> <i>compass</i>
9:30 am	Michael Reiser , Janelia Farm Research Campus/HHMI The role of visual feedback in regulating straight flight by Drosophila
10:00 am	Li Liu, Chinese Academy of Sciences Visual pattern memory requires the fan-shaped body in Drosophila
10:30 am	Martin Heisenberg , University of Wuerzburg <i>Towards a circuit model of retinal position invariance for visual pattern</i> <i>recognition in Drosophila</i>
11:00 am	General Discussion
12:00 pm	Lunch
1:30 pm	Session 5: Locomotion Chair: Roland Strauss
1:30 pm	Ansgar Büschges , Zoological Institute Neural control of stick insect walking - from joint control to adaptive locomotor behavior
2:00 pm	Roy Ritzmann , Case Western Reserve University Dealing with barriers: Behavioral choice, local changes and multi- sensory responses in the central complex
2:30 pm	Thomas Collett , University of Sussex Route navigation in ants when landmarks are missing
2:50 pm	Frederic Libersat , Ben-Gurion University of the Negev Parasitoid wasp injects venom in the brain of its insect prey to manipulate its motivation to move
3:10 pm	Break

Functional Anatomy of the Arthropod Central Complex & Motor System

3:40 pm	David J. Anderson , California Institute of Technology Negative regulation of locomotor hyperactivity by dopaminergic input to the central complex in Drosophila melanogaster
4:00 pm	Krishna Bhat , UT Medical Branch at Galveston Mutational analysis of the synaptic connections using motor system in Drosphila
4:20 pm	Barbara Webb, University of Edinburgh Control of directional walking in crickets and robots
4:40 pm	Ryohei Kanzaki , The University of Tokyo Insect-machine hybrid system for understanding and evaluating the motor control by sex pheromone in Bombyx mori
5:00 pm	General Discussion
6:00 pm	Dinner
8:00 pm	Keynote Presentation
	Roland H. Strauss , Johannes Gutenberg-Universitaet Mainz <i>Plasticity in goal-oriented walking</i>
9:00 pm	Poster Reception

Wednesday May 14th

8:00 am	Breakfast
9:00 am	Session 6: Thoracic Ganglion Chair: David Shepherd
9:00 am	David Shepherd , University of Southampton The development and functional organization of the Drosophila thoracic nervous system
9:30 am	James W. Truman , Janelia Farm Research Campus/HHMI Hemilineages as units of nervous system development, function and evolution
10:00 am	Joyce J. Fernandes, Miami University Development of the adult motor system during metamorphosis
10:15 am	Darren W. Williams , King's College London The development and organization of the leg motor system of Drosophila
10:30 am	Break
11:00am	Poster Recognition
11:00 am	Tim Lebestky , California Institute of Technology <i>The role of dopamine receptor in facilitating mechanical startle and</i> <i>arousal</i>
11:15 am	Cahir O'Kane , University of Cambridge Exploring differences between terminals of the same neuron
11:30 am	Ralf Heinrich Control of Grasshopper sound production: Neurons, chemical messengers, and the flow of information in the central complex
12:00 pm	General Discussion
12:30 pm	Future Meeting Discussion
1:00 pm	Lunch (Boxed lunches & shuttles to Dulles available)
1:15 pm 2:00 pm 2:45 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles