

Schedule at a Glance

Sunday October 19th

- 3:00 pm Check-in
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Introductory Remarks (Dining Room)
- 9:00 pm Refreshments available at Bob's

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

Monday October 20th

- 7:30 am Breakfast
- 9:00 am Session 1: Sensory Systems: Smell and Taste
- 10:30 am Break and Group Photo
- 11:00 am Session 1 continued
- 12:00 pm Open Discussion
- 12:30 pm Lunch
- 1:00 pm Tour (optional)
- 2:00 pm Session 2: Sensory Systems: Light and Air
- 3:00 pm Break
- 4:00 pm Session 3: Sensory Systems: Somatic Senses
- 5:30 pm Open Discussion
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Poster Reception

Tuesday October 21st

- 7:30 am Breakfast
- 9:00 am Session 4: Motor Systems: Locomotion
- 10:10 am Break
- 10:40 am Session 5: Interneuron Classification and Specification
- 12:10 pm Open Discussion
- 12:30 pm Lunch
- 2:00 pm Session 6: Evolution and Tracking of Behavior
- 3:10 pm Open Discussion
- 3:30 pm Break
- 4:00 pm Poster Session
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Session 7: Of Maggots and Worms: Comparative Analysis
- 9:00 pm Refreshments available at Bob's

Wednesday October 22nd

- 7:30 am Breakfast
- 9:00 am Session 8: Central Systems: Feeding and Neuropeptide Circuits
- 10:00 am Break
- 10:30 am Session 8 continued

Behavioral Neurogenetics of Drosophila Larva

11:10 am	Final Discussion
12:00 pm	Lunch (take out boxes from servery) and Departure
12:15 pm	First shuttle to Dulles
1:00 pm	Second shuttle to Dulles
1:45 pm	Last shuttle to Dulles

Full Schedule

Sunday, October 19th

- | | |
|---------|-------------------------------------|
| 3:00 pm | Check-in |
| 6:00 pm | Reception |
| 7:00 pm | Dinner |
| 8:00 pm | Opening Remarks (Dining Room) |
| 9:00 pm | Refreshments available at Bob's Pub |

Monday, October 20th

9:00 am **Session 1: Sensory Systems: Smell and Taste**
Chair: Bertram Gerber

9:00 am **Rachel Wilson**, Harvard Medical School
Olfactory processing in the adult Drosophila antennal lobe

9:30 am **Reinhard Stocker**, University of Fribourg
The larval antennal lobe: mapping of ORN terminals and projection neuron dendrites

9:50 am **Liria Masuda-Nakagawa**, Institute of Molecular and Cellular
Biosciences
Stereotypic input into the larval mushroom body calyx revealed by odor-induced neuronal activity

10:10 am **Mathieu Louis**, Center for Genomic Regulation
Sensory logic of odor perception in Drosophila larvae

10:30 am Break and Group Photo

11:00 am **Session 1 (continued)**
Chair: Reinhard Stocker

11:00 am **John Carlson**, Yale University
Translation of chemosensory input into behavioral output

11:20 am **Matthew Cobb**, University of Manchester
How maggots smell

11:40 am **Bertram Gerber**, University of Wuerzburg
Smelling, tasting, learning in larval Drosophila

12:00 pm Open Discussion

12:30 pm Lunch

1:00 pm Tour (optional)

2:00 pm **Session 2: Sensory Systems: Light and Air**
Chair: Dan Tracey

2:00 pm **Simon Sprecher**, New York University
Distinct roles of larval photoreceptor subtypes in clock entrainment and photophobic behavior

Behavioral Neurogenetics of Drosophila Larva

- 2:20 pm **Joshua Ainsley**, University of Iowa
Behavioral responses of Drosophila larvae to oxygen are mediated by sensory neurons expressing the Deg/ENaC PPK1
- 2:40 pm **David Morton**, Oregon Health & Science University
Oxygen-sensitive guanylyl cyclases mediate the larval hypoxia escape response
- 3:00 pm Break
- 4:00 pm Session 3: Sensory Systems: Somatic Senses**
Chair: Yuh-Nung Jan
- 4:00 pm **Yuh-Nung Jan**, University of California, San Francisco
Studies of the function of a group of Drosophila larval sensory neurons, the da neurons
- 4:30 pm **K. Vijayraghavan**, National Centre for Biological Sciences
The development of motor neuron connectivity and its relationship to locomotion
- 4:50 pm **Marta Zlatic**, Columbia University
Screen for neural substrates of stereotyped behaviors in Drosophila larva
- 5:10 pm **Dan Tracey**, Duke University
Larval learning in response to nociceptive input from multidendritic neurons.
- 5:30 pm Open Discussion
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Poster Reception**

Tuesday, October 21st

7:30 am Breakfast

9:00 am Session 4: Motor Systems: Locomotion
Chair: Richard Baines

9:00 am **Michael Bate**, University of Cambridge
*The developmental origin of larval locomotion in *Drosophila**

9:30 am **Kendal Broadie**, Vanderbilt University
Functional development of the neuromuscular junction synapse

9:50 am **Richard Baines**, University of Manchester
**Pumilio* binds paralytic mRNA and regulates its translation to control neuron excitability*

10:10 am Break

10:40 am Session 5: Interneuron Classification and Specification
Chair: Michael Bate

10:40 am **Julia Kaltschmidt**, Sloan-Kettering Institute
Synaptic specificity during interneuron circuit assembly in the spinal cord

11:10 am **Chris Doe**, University of Oregon/HHMI
*Assembling a transcription factor/*gal4* neuronal atlas for developmental analysis of neural circuits*

11:30 am **Barry Condron**, University of Virginia
A fast-searchable atlas of neuronal morphology of the fly larval abdominal CNS

11:50 am **Volker Hartenstein**, University of California, Los Angeles
*A developmental guide to compartmentalization of the *Drosophila* brain*

12:10 Open Discussion

12:30 pm Lunch

2:00 pm Session 6: Evolution and Tracking of Behavior
Chair: Marta Zlatic

2:00 pm **Raul Godoy-Herrera**, Universidad de Chile
*The behavior of *Drosophila* larvae in the wild*

Behavioral Neurogenetics of Drosophila Larva

- 2:30 pm **Deniz Erezyilmaz**, Princeton University
Selection of pupariation sites among different species of Drosophila
- 2:50 pm **Aravi Samuel**, Harvard University
Tracking behavior in freely moving Drosophila larvae
- 3:10 pm Open Discussion
- 3:30 pm Break
- 4:00 pm Poster Session**
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Session 7: Of Maggots and Worms: Comparative Analysis**
Chair: Jim Truman
- 8:00 pm **Mario de Bono**, Medical Research Council
Understanding how behavior evolves
- 8:30 pm **William Schafer**, Medical Research Council
Quantitative analysis of behavioural phenotypes in C. elegans
- 9:00 pm Refreshments available at Bob's

Wednesday, October 22nd

- 7:30 am Breakfast
- 9:00 am Session 8: Central Systems: Feeding and Neuropeptide Circuits**
Chair: Michael Pankratz
- 9:00 am **Michael Pankratz**, University of Bonn
Neural circuits controlling feeding behavior and metabolism in Drosophila
- 9:20 am **Eric Rulifson**, University of California, San Francisco
Drosophila models for pancreatic islet-cell specification
- 9:40 am **Christian Wegener**, Philipps-Universität Marburg
Morphological and neurochemical organisation of peptidergic systems in the larval ventral ganglion
- 10:00 am Break
- 10:30 am **Amsale Belay**, University of Toronto
Larval food-related behaviours and lipid metabolism governed by the foraging gene of Drosophila melanogaster
- 10:50 am **Ping Shen**, University of Georgia
Mapping of molecular and neuronal pathways for sugar-stimulated avoidance and social interaction in Drosophila larvae
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