Sunday, September 30th

3:00 pm Check-in

6:00 pm Reception *(Lobby)*

7:00 pm Dinner

8:00 pm Poster Introduction Blitz!

9:30 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, October 1st

7:30 am Breakfast *(service ends at 8:45am)*

9:00 am **Molecular/development**
Chair: Marta Zlatic

9:00 am Opening remarks

9:05 am **Yuh-Nung Jan**, HHMI/University of California, San Francisco
Molecular mechanisms underlying mechanosensation in Drosophila larvae

9:30 am **Hongyan Wang**, Duke-NUS Graduate Medical School Singapore
Control of asymmetric division and self-renewal of Drosophila neural stem cells

9:55 am **Fengwei Yu**, Temasek Life Sciences Laboratory
Sculpting the nervous system: Molecular mechanisms of neuronal pruning in Drosophila

10:20 am Break

10:50 am **Molecular/development (continued)**

10:50 am **Matthias Landgraf**, Cambridge University
Ecdysone receptor regulation of motoneuron dendritic growth

11:15 am **Circuits**
Chairs: Michael Pankratz and Dan Tracey

11:15 am **James W. Truman**, Janelia Farm Research Campus/HHMI
Towards a light-level atlas of the larval CNS

11:40 pm **Albert Cardona**, Janelia Farm Research Campus/HHMI
The wiring diagram for somatosensation in Drosophila larva

12:05 pm Lunch *(service ends at 1:00 pm)*

1:00 pm Tour *(optional - meet at reception)*

2:00 pm **Circuits (continued)**

2:00 pm **Chris Q. Doe**, HHMI/University of Oregon
Investigating the larval motor circuit

2:25 pm **Akinao Nose**, University of Tokyo
Optogenetic dissection of motor circuits that regulate larval peristalsis in Drosophila

2:50 pm **Stefan Pulver**, Janelia Farm Research Campus/HHMI
The core of crawling: Analysis of central pattern generator output in the Drosophila larval ventral nerve cord

3:05 pm **Steve Stowers**, Montana State University
Sensory neural circuit mapping in larval Drosophila

3:20 pm Break

4:00 pm **Circuits (continued)**

4:00 pm **Marta Zlatic**, Janelia Farm Research Campus/HHMI
Identification of escape circuits in Drosophila larva using high-throughput behavioral screens

4:25 pm General Discussion

5:00 pm Poster Reception

6:30 pm Dinner

7:30 pm **Science Speed Dating! *(Lobby)***

8:45 pm Refreshments available at Bob's Pub

Tuesday, October 2nd

7:30 am Breakfast *(service ends at 8:45am)*

9:00 am **Decision making and learning in larvae**
Chairs: Marla Sokolowsi and Simon Sprecher

9:00 am **Marc Gershow**, Harvard University
Solving navigational circuits in the Drosophila larva

9:25 am **Matthieu Louis**, Center for Genomic Regulation
Casting light on the interplay between perception and decision making in Drosophila chemotaxis

9:50 am **Jimena Berni**, University of Cambridge
Autonomous circuitry for substrate exploration in freely moving Drosophila larvae

10:15 am **Bertram Gerber**, Leibniz Institute of Neurobiology (LIN)
'Decision making' in larval Drosophila

10:40 am Break

11:10 am **Decision making and learning in larvae (continued)**

11:10 am **Andreas S. Thum**, University of Konstanz
Learning and memory in Drosophila larvae

11:35 am **Mani Ramaswami**, Trinity College Dublin
Habituation to attractive and repulsive odorants

12:00 pm **Liria M. Masuda-Nakagawa**, University of Cambridge
Circuitry for olfactory representation in the mushroom body calyx of larval Drosophila

12:25 pm Lunch *(service ends at 1:00 pm)*

2:00 pm **Physiology-linked behaviors**
Chair: James Truman

2:00 pm **Ping Shen**, University of Georgia
Role of the NPF System in Reward-driven Behavior

2:25 pm **Michael J. Pankratz**, University of Bonn
Modulation of central feeding motor circuits

2:50 pm **Feng Li**, Janelia Farm
Identifying neuronal circuitry underlying food ingestion of Drosophila larvae

3:05 pm **David B. Morton**, Oregon Health & Science University
Identification of genes that interact with the atypical soluble guanylyl cyclases mediating larval behavioral responses to hypoxia

3:30 pm Break

4:00 pm Physiology-linked behaviors (continued)

4:00 pm **Wayne A. Johnson**, University of Iowa
Drosophila H2O2-activated sensory neurons coordinate larval developmental behavioral transitions with external changes in atmospheric oxygen levels

4:15 pm **Lynn M. Riddiford**, Janelia Farm Research Campus/HHMI
Hormonal control of wandering behavior in Drosophila larvae

4:30 pm **Naoki Yamanaka**, University of Minnesota
PTTH coordinates physiological and behavioral transitions during Drosophila development

4:45 pm General Discussion

5:30 pm Poster Reception

7:00 pm Dinner

8:00 pm Refreshments available at Bob's Pub

Wednesday, October 3rd

7:30 am	Breakfast *(service ends at 8:45am)*
9:00 am	**Visual system and visual behavior** **Chair: Bertram Gerber**
9:00 am	**Barry Condron**, University of Virginia *Complex visual processing in Drosophila larvae*
9:25 am	**Simon G. Sprecher**, University of Fribourg *Visual system of Drosophila larvae*
9:50 am	**Dan Tracey**, Duke University *Visual system gating of larval nociception behavior*
10:15 am	Break
10:45 am	**Environmental interactions with behavior** **Chair: Barry Condron**
10:45 am	**Marla B. Sokolowski**, University of Toronto *Gene-environment interplay and the foraging gene*
11:10 am	**Raul Godoy-Herrera**, Universidad de Chile *Drosophila larval cues affect behaviors of larvae and females*
11:35 am	Closing discussion
12:00 pm	Lunch and departure *(To-go boxes available in servery for those on first shuttle)*
12:30 pm	First shuttle to Dulles
1:30 pm	Second shuttle to Dulles
2:30 pm	Last shuttle to Dulles