

Junior Scientist Workshop on Neural Circuits and Behavior  
Janelia Research Campus | Oct 3-8, 2016  
Organizers: Vivek Jayaraman, Alla Karpova and Josh Dudman  
SYNAPSE ROOM

**Monday, October 3**

*Arrival and Check-in*

- 6:00 pm Reception (*Lobby*)  
6:30 pm Dinner  
**7:30 pm Welcome and Introduction**  
**7:45 pm Keynote talk: Eve Marder**  
**8:45 pm Science Speed Dating! (*Lobby*)**  
9:30 pm Refreshments available at Bob's Pub

**Tuesday, October 4**

- 7:00 am Breakfast (*service ends at 8:15am*)  
**8:30 am Talks Session 1: Sensorimotor integration/motor control**  
**Chair: TBD**  
**Speakers:** Samaher Fageiry, Aljoscha Leonhardt, Annie Vahedipour, Brad Dickerson  
10:10 am Break  
**10:30 am Session 1 continues**  
11:20 am Janelia lab tour (*optional – meet at reception*)  
12:15 pm Lunch (*Service ends at 1pm*)  
**1:15 pm Debate 1: Looking at the detailed wiring diagram of the brain is like measuring the temperature of a cup of tea by identifying the position of all water molecules**  
**Moderators: TBD**  
**YES:** Matt Lovett-Barron, Kevin Miller, Henry Dalglish, Kachi Odoemene  
**NO:** Anita Devineni, Nick Steinmetz, Li Yan McCurdy, Marius Pachitariu  
2:55 pm Break  
**3:30 pm Talks Session 2: The myriad roles of neuromodulators**  
**Chair: TBD**  
**Speakers:** Raffi Cohn, Madalena Fonseca, Stephen Zhang, Matthew Lovett-Barron  
5:10 pm Break  
**5:30 pm Session 2 continues**  
6:30 pm Dinner  
**8:00 pm Debate 2: Studying neural circuits without identifying the neuronal cell types is a waste of brain power.**  
**Moderators: TBD**  
**YES:** Stephen Zhang, Chris Rodgers, Madalena Fonseca, Carl Schoonover & Andrew Fink  
**NO:** Samaher Fageiry, Hannah Haberkern, Trace Henry, Andrew Gordus  
9:30 pm Refreshments available at Bob's Pub

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**Wednesday, October 5**

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Talks Session 3: Learning & memory/decision-making**  
**Chair: TBD**  
**Speakers:** Li Yan McCurdy, Jocelyn Richard, Kevin Miller, Kachi Odoemene
- 10:40 am Group photo
- 11:15 am Session 3 continues**
- 12:15 pm Lunch (*Service ends at 1pm*)
- 1:15 pm Debate 3: Contemporary optogenetics experiments are barely necessary and seldom sufficient**  
**Moderators: TBD**  
**YES:** Henry Dalglish, Brad Dickerson, Georg Raiser, Annie Vahedipour  
**NO:** Raffi Cohen, Li Yan McCurdy, Sabine Krabbe, Carl Schoonover & Andrew Fink
- 2:55 pm Break
- 3:30 pm Talks Session 4: Inferring circuit function by studying population dynamics**  
**Chair: TBD**  
**Speakers:** Trace Henry, Marius Pachitariu, Andrew Fink/Carl Schoonover, Sabine Krabbe
- 5:10 pm Break
- 5:30 pm Session 4 continues**
- 6:30 pm Dinner
- 8:00 pm Keynote talk: Larry Abbott**
- 9:30 pm Refreshments available at Bob's Pub

**Thursday, October 6**

- 7:30 am Breakfast (*Service ends at 9:00am*)
- 9:00 am R&R (*specifics tbd*)**
- 12:15 pm Lunch (*Service ends at 1pm*)
- 1:15 pm Debate 4: Give me a high-density optrode and a large-field microscope, and I will solve the brain**  
**Moderators: TBD**  
**YES:** Stephen Zhang, Jocelyn Richard, Sabine Krabbe, Marius Pachitariu  
**NO:** Anita Devineni, Georg Raiser, Chris Miller, Nick Steinmetz
- 2:55 pm Break
- 3:30 pm Talks Session 5: Paradigms to dissect natural behavior**  
**Chair: TBD**  
**Speakers:** Andrew Gordus, Dana Levy, Hannah Haberkern, Chris Rodgers
- 5:10 pm Break

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- 5:30 pm**      **Session 5 continues**  
6:30 pm      Dinner  
**8:00 pm**      **Keynote talk: Michale Fee**  
9:30 pm      Refreshments available at Bob's Pub

**Friday, October 7**

- 7:30 am      Breakfast (*service ends at 9:15am*)  
**9:30 am**      **Talks Session 6: Sensory discrimination**  
                 **Chair: TBD**  
                 **Speakers:** Nick Steinmetz, Georg Raiser, Henry Dagleish, Anita Devineni  
11:10 am      Break  
**11:30 am**      **Session 6 continues**  
12:30 pm      Lunch (*Service ends at 1pm*)  
**1:30 pm**      **Debate 5: In order to understand the link between neural circuits and behavior,**  
                 **you need to measure both at the same time**  
                 **Moderators: TBD**  
                 **YES:** Aljosha Leonhardt, Samaher Fageiry, Jocelyn Richard, Kachi Odoemene  
                 **NO:** Dana Levy, Andrew Gordus, Madalena Fonseca, Trace Henry  
3:00 pm      Break  
**4:00 pm**      **Debate 6: Trying to understand brain computation using highly trained animals**  
                 **performing simple behaviors in non-ethological settings is like trying to**  
                 **understand global warming using baking soda and vinegar.**  
                 **Moderators: TBD**  
                 **YES:** Annie Vahedipour, Aljosha Leonhardt, Brad Dickerson, Kevin Miller  
                 **NO:** Hannah Haberkern, Dana Levy, Matt Lovett-Barron, Raffi Cohen  
5:30 pm      BBQ (*Bob's Patio*)

**Saturday, October 8**

- Departure (Brunch service at Bob's begins at 9am)*  
7:30 am      First shuttle to Dulles  
8:30 am      Second shuttle to Dulles  
9:30 am      Last shuttle to Dulles