

Sunday, May 17

- 3:00 pm Check-in
- 6:00 pm Reception (*Lobby*)
- 7:00 pm Dinner
- 8:00 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, May 18

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 1**
Chair: Marta Zlatic
- 9:00 am **Henrik Ehrsson**, Karolinska Institutet
Multisensory mechanisms of body self-perception
- 9:25 am **Olaf Blanke**, Ecole Polytechnique Fédérale de Lausanne (EPFL)
Multisensory brain mechanisms of self-consciousness and visual consciousness
- 9:50 am **Michael S. Beauchamp**, Baylor College of Medicine
Coordinating auditory and visual cortex in the human brain during multisensory speech perception
- 10:15 am Discussion
- 10:25 am Break
- 11:00 am Session 2**
Chair: Mark Wallace
- 11:00 am **Lizabeth M. Romanski**, University of Rochester School of Medicine
Integration of face and vocal information in the primate prefrontal cortex
- 11:25 am **Paolo Medini**, Umeå University
Microcircuits underlying multisensory integration in the neocortex
- 11:50 am **Anne K. Churchland**, Cold Spring Harbor Laboratory
A category-free neural population supports decision-making
- 12:15 pm Discussion
- 12:25 pm Lunch (*service ends at 1pm*)

Combining Information from Multiple Modalities Across the Animal Kingdom

- 2:00 pm** **Session 3**
Chair: Philip Sabes
- 2:00 pm **Mayank R. Mehta**, University of California, Los Angeles
Interaction between multisensory stimuli in governing hippocampal activity
- 2:25 pm **Vivek Jayaraman**, Janelia Research Campus/HHMI
Neural dynamics for angular path integration and landmark orientation
- 2:50 pm **Jessica L. Fox**, Case Western Reserve University
Fly mechanosensors influence responses to visual motion
- 3:15 pm **Mark A. Willis**, Case Western Reserve University
Olfactory, visual and mechanical information interact to enable freely flying insects to locate important resources
- 3:40 pm Discussion
- 3:50 pm Break
- 4:20 pm** **Session 4**
Chair: Alexandre Pouget
- 4:20 pm **Simon G. Sprecher**, University of Fribourg
*Multimodal gustatory information processing in *Drosophila* larvae*
- 4:55 pm **Marta Zlatic**, Janelia Research Campus/HHMI
*A multilevel multimodal integration circuit in *Drosophila**
- 5:20 pm **Matthieu Louis**, Center for Genomic Regulation
*Bayesian larvae: Near optimal probabilistic inference in *Drosophila**
- 5:45 pm Discussion
- 5:55 pm Poster Reception
- 7:30 pm Dinner
- 9:00 pm Refreshments available at Bob's Pub

5/13/15

Tuesday, May 19

- 7:15 am Breakfast (*service ends at 8:30am*)
- 8:45 am Session 5**
Chair: Anne Churchland
- 8:45 am **Wei Ji Ma**, New York University
Causal inference in multisensory perception
- 9:10 am **Pieter Medendorp**, Donders Institute for Brain, Cognition and Behaviour
Causal inference in self-motion perception and spatial constancy
- 9:35 am **Dora Angelaki**, Baylor College of Medicine
Causal inference in visual-vestibular heading perception
- 10:00 am **Alexandre Pouget**, University of Rochester
Optimal multisensory decision-making in a reaction-time task
- 10:25 am Discussion
- 10:35 am Break
- 11:05 am Session 6**
Chair: Mark Willis
- 11:05 am **Gregory C. DeAngelis**, University of Rochester
Divisive normalization accounts for the empirical principles of multisensory integration
- 11:30 am **Mauro Ursino**, University of Bologna
A neurocomputational model of audio-visual multisensory integration in early cortical areas: Hebbian training and relationship with Bayesian estimators
- 11:55 am **John Foxe**, Albert Einstein College of Medicine
Mapping multisensory networks of the brain: Emerging principles, clinical perspectives and translational implications
- 12:20 pm Discussion
- 12:30 pm Lunch (*service ends at 1pm*)
- 1:15 pm Tour (*optional – meet at reception*)

Combining Information from Multiple Modalities Across the Animal Kingdom

- 2:15 pm** **Session 7**
Chair: Lizabeth Romanski
- 2:15 pm **Marc Gershow**, New York University
*Multi-sensory integration of *Drosophila* larval olfaction and vision probed with white noise analysis*
- 2:40 pm **Jennifer Groh**, Duke University
Was Aristotle wrong? Evidence of pervasive intertwining of visual and auditory processing
- 3:05 pm **Andrew King**, University of Oxford
Multisensory influences on ferret auditory cortex and their consequences for stimulus localization
- 3:30 pm Discussion
- 3:40 pm Break
- 4:15 pm** **Session 8**
Chair: Gregory DeAngelis
- 4:15 pm **Jiu-Lin Du**, Institute of Neuroscience, Chinese Academy of Sciences
Neuromodulation rather than synaptic input integration mediates cross-modal modulation in a command-like neuron
- 4:40 pm **Mark Frye**, HHMI/University of California, Los Angeles
*Olfactory neuromodulation of motion vision in *Drosophila**
- 5:05 pm **Michael N. Nitabach**, Yale School of Medicine
*Top-down control of multisensory decision making in *C. elegans**
- 5:30 pm Discussion
- 5:40 pm Poster Reception
- 7:30 pm Dinner
- 9:00 pm Refreshments available at Bob's Pub

5/13/15

Wednesday, May 20

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 9**
Chair: Dora Angelaki
- 9:00 am **Mark T. Wallace**, Vanderbilt University
Development and plasticity in multisensory representations: From animal models to autism
- 9:25 am **Philip Sabes**, University of California, San Francisco
Learning to integrate sensory signals, from theory to practice
- 9:50 am **Leonid L. Moroz**, University of Florida
Integrative activity of the genome in single neurons of memory circuits as they learn, remember and forget: Insights from different animal phyla
- 10:15 am Discussion
- 10:25 am Break
- 11:00 am Session 10**
Chair: Matthieu Louis
- 11:00 am **Robert Jacobs**, University of Rochester
From sensation to conception: Do multisensory representations underlie cross-modal transfer of knowledge?
- 11:25 am **Susan Shore**, University of Michigan
Multisensory plasticity in the cochlear nucleus
- 11:50 am **Ladan Shams**, University of California, Los Angeles
Multisensory perception, memory and learning
- 12:15 pm Closing Discussion & Final Remarks
- 12:30 pm Lunch and Departure
- 1:00 pm First shuttle to Dulles
2:00 pm Second shuttle to Dulles
3:00 pm Last shuttle to Dulles