Sunday, March 26

3:00 pm Check-in

6:00 pm Reception (Lobby)

7:00 pm Dinner

8:00 pm Welcome and Opening Remarks

8:00 pm Keynote: Mandyam V. Srinivasan, University of Queensland

Visual guidance of flight in bees and birds

9:00 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**



Talks are 20 min + 5 min for Q&A

Monday, March 27

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 1: Active sensation I Chair: David Kleinfeld
9:00 am	Daniel H. O'Connor , Johns Hopkins University Coding of touch and self-motion by Merkel cell-associated afferents
9:25 am	Ehud Ahissar , Weizmann Institute of Science <i>The CLP hypothesis: Closing an active sensation loop with</i> $x \equiv perception \ of \ x$
9:50 am	Mathew E. Diamond, International School for Advanced Studies (SISSA) Temporal integration in whisker-mediated behavior
10:15 am	Break
10:45 am	Session 2: Active sensation II Chair: Anne K. Churchland
10:45 am	Karel Svoboda , Janelia Research Campus/HHMI <i>TBD</i>
11:10 am	Kathleen Cullen, McGill University Vestibular processing during active self motion: Implications for perception and action
11:35 am	Troy Margrie , Sainsbury Wellcome Centre Egocentric and allocentric motion signaling in L6 of primary visual cortex
12:00 pm	Lunch (service ends at 1:00 pm)
2:00 pm	Session 3: Hippocampal representations of space and experience I Chair: Matteo Carandini
2:00 pm	Shigeyoshi Fujisawa, RIKEN Brain Science Institute Representations of spatial information of self and other in the hippocampus
2:25 pm	Mayank R. Mehta, University of California, Los Angeles Multisensory control of hippocampal spatial and directional selectivity
2:50 pm	Dmitriy Aronov , Columbia University Mapping of a continuous non-spatial dimension by the hippocampal/entorhinal circuit



3:15 pm	Break
3:45 pm	Session 4: Hippocampal representations of space and experience II Chair: Julija Krupic
3:45 pm	James J. Knierim, Johns Hopkins University Self-motion vs. landmark cues in the control of hippocampal place fields
4:10 pm	Elizabeth Buffalo, University of Washington School of Medicine Eye movements and spatial representation in the primate hippocampal formation
4:35 pm	Stefan Leutgeb , University of California, San Diego Dependence of memory on precisely coordinated oscillations
5:00 pm	Break
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 5: Navigation and complex behaviors Chair: Georg B. Keller
8:00 pm	Nachum Ulanovsky, Weizmann Institute of Science From active sensing to 3D goal-directed navigation in bats
8:25 pm	Massimo Vergassola, University of California, San Diego Active navigation of turbulent environments
8:50 pm	Refreshments available at Bob's Pub



Tuesday, March 28

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 6: Active sensation III Chair: Jill K. Leutgeb
9:00 am	Dmitry Rinberg , NYU Neuroscience Institute Concentration invariant odor identity coding
9:25 am	Anastasia Kurnikova, University of California, San Diego Welker 2.0. Coordination of exploratory orofacial motor actions
9:50 am	Martin Deschênes, Centre de Recherche Universite Laval Robert-Giffard Circuits that control the set-point of whisking
10:15 am	Break
10:45 am	Session 7: Active sensation and collective behavior Chair: Kathleen Cullen
10:45 am	Naoshige Uchida, Harvard University Forelimb motor adaptation in mice
11:10 am	Daniel D. Lee , University of Pennsylvania Decision making and manifolds in intelligent systems
11:35 am	Elad Schneidman, Weizmann Institute of Science Efficient collective foraging in groups of information seeking agents
12:00 pm	Lunch (service ends at 1:00 pm)
1:00 pm	Tour (optional - meet at reception)
2:00 pm	Session 8: Active vision Chair: Mathew E. Diamond
2:00 pm	Matteo Carandini, University College London Vision, decision, and navigation in mouse parietal cortex
2:25 pm	Charles Schroeder , Nathan Kline Institute and Columbia University Medical Center Influence of eye movements on neuronal oscillatory activity during active vision
2:50 pm	Georg B. Keller , Friedrich Miescher Institute for Biomedical Research <i>Active sensory processing in mouse visual cortex</i>



3:15 pm	Break
3:45 pm	Session 9: Sensory processing and decision-making I Chair: Elizabeth Buffalo
3:45 pm	Vanessa Ruta, Rockefeller University Circuit mechanisms for flexible sensory processing in Drosophila
4:10 pm	Anne K. Churchland, Cold Spring Harbor Laboratory A multisensory approach for understanding decision circuits
4:35 pm	Vincent Bonin, Neuro-Electronics Research Flanders Encoding of multimodal information in the mouse visual cortex during active sensing
5:00 pm	Break
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 10: Sensory processing and decision-making II Chair: Nachum Ulanovsky
8:00 pm	Dougal Tervo , Janelia Research Campus/HHMI The role of the medial prefrontal cortex in learning and decision-making
8:25 pm	Keren Haroush , Harvard Medical School and Massachusetts General Hospital <i>Decision making in social context</i>
8:50 pm	Refreshments available at Bob's Pub



Wednesday, March 29

7:30 am	Breakfast (service ends at 8:45 am)
9:00 am	Session 11: Navigation I Chair: Karel Svoboda
9:00 am	Jeffrey S. Taube, Dartmouth College Critical factors that influence grid cell firing
9:25 am	Lisa Giocomo , Stanford School of Medicine Coordinated modulation of grid and speed cells by self-motion cues
9:50 am	Julija Krupic, The Salk Institute Local transformations of entorhinal grid maps
10:15 am	Break
10:45 am	Session 12: Navigation II Chair: Charles Schroeder
10:45 am	Jill K. Leutgeb , University of California, San Diego Distinct cell types for memory and spatial representations in medial entorhinal cortex
11:10 am	Daniel Goldman , Georgia Institute of Technology Sensing slip on potentially sliding substrates. Sometimes.
11:35 asm	Closing Discussion
12:00 pm	Lunch and Departure
12:30 pm 1:30 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

