### **Full Schedule**

## Sunday, April 6<sup>th</sup>

3:00 pm	Check-in
5:30 pm	Reception
6:30 pm	Dinner
7:30 pm	Session I
	Introduction by the Organizers: Alla Karpova and Zach Mainen
8:00 pm	<b>Trevor Robbins</b> , University of Cambridge Neural substrates of elements of decision-making cognition in rats
9:00 pm	<b>Peter Dayan</b> , University College London Value and Action Systems in Decision Making

### Monday, April 7<sup>th</sup>

7:30 am	Breakfast
8:30 am	Session II: Cognition
8:30 am	Zach Mainen, Cold Spring Harbor Laboratory Neural mechanisms for odor-guided spatial decisions in the rat
9:00 am	<b>Tony Zador</b> , Cold Spring Harbor Laboratory Neural correlates of attention in rodent auditory cortex
9:30 am	<b>Carlos Brody</b> , Princeton University Neural dynamics underlying cognitive flexibility
10:00 am	Break and Group Picture
10:30 am	<b>Howard Fields</b> , University of California Ventral striatal neuronal firing patterns imply a role in valuation and action selection
11:00 am	<b>Shih-Chieh Lin</b> , Duke University Medical Center Neuronal ensemble bursting in the basal forebrain encodes salience irrespective of valence
11:30 am	<b>Yael Niv</b> , Princeton University <i>Tonic dopamine, motivation and the optimal choice of response rates in</i> <i>free operant behavior</i>
12:00 pm	<b>Paul E. M. Phillips</b> , University of Washington Making the right decision: Cost-Benefit analysis by mesolimbic dopamine
12:30 pm	<b>Peter Shizgal</b> , Concordia University The role of dopamine tone in the allocation of behavior to the pursuit of rewards
1:00 pm	Lunch
1:30 pm	Tour (optional)
2:30 pm	<b>Workshops</b> W1. Sensory-guided decisions: Dima Rinberg, Don Katz W2. Learning and decisions: Yael Niv, Randy Gallistel W3. Action and cognition: Doug Nitz, Simon Killcross W4. Economic decisions: Mark Walton, Matthew Roesch

- 4:30 pm Poster Reception
- 6:00 pm Dinner
- 7:00 pm Workshop Discussion

# **Tuesday, April 8<sup>th</sup>** 7:30 am Breal

Breakfast

8:30 am	Session III: Economics
8:30 am	Mark Walton, University of Oxford <i>Frontal and monoamine contributions to cost-benefit decision making</i>
9:00 am	Adam Kepecs, Cold Spring Harbor Laboratory Neural correlates and behavioral impact of decision confidence
9:30 am	Charles Gallistel, Rutgers University Risk assessment in man and mouse
10:00 am	Break
10:30 am	Session IV: Hippocampus and Others
10:30 am	<b>Loren M. Frank</b> , University of California, San Francisco <i>Hippocampal novelty signaling and competetive plasticity during learning</i>
11:00 am	<b>Matt Wilson</b> , Massachusetts Institute of Technology Sequential event memory formation and reactivation in the hippocampus and beyond
11:30 am	<b>A. David Redish</b> , University of Minnesota Neural coding in the hippocampus and striatum during decision-making
12:00 pm	<b>Geoff Schoenbaum</b> , University of Maryland School of Medicine Understanding behavior through single-unit recording
12:30 pm	Lunch
2:00 pm	<b>Workshops</b> W5. Theory and analysis: XJ Wang, Carlos Brody W6. Behavior: Naoshige Uchida, Adam Mar W7. Recordings: Mark Anderman, Mark Laubach W8. Perturbation: Susana Lima, Walter Lerchner
4:00 pm	Poster Reception
6:00 pm	Dinner
7:00 pm	Workshop Discussion

### Wednesday, April 9<sup>th</sup>

7:30 am	Breakfast
8:30 am	Session V: Action
8:30 am	Bernard Balleine, University of California, Los Angeles Corticostriatal circuits in goal-directed action and habit
9:00 am	Mark Laubach, Yale University School of Medicine Dynamic encoding of stimulus value by the dorsomedial striatum
9:30 am	<b>Rui Costa</b> , National Institutes of Health <i>Iteration and generalization in choice and habit</i>
10:00 am	Break
10:30 am	Session VI: Techniques/Circuits
10:30 am	<b>Gyorgy Buzsaki</b> , Rutgers University, Newark Predicting behavioral outcome from hippocampal cell assembly activity
11:00 am	<b>David J. Anderson</b> , California Institute of Technology Genetic silencing of amygdalar microcircuits underlying fear conditioning in mice
11:30 am	<b>Karl Deisseroth</b> , Stanford University Fast multimodal optical interrogation of neural circuitry: development and applications
12:00 pm	Karel Svoboda, Howard Hughes Medical Institute Functional analysis of neocortical circuits
12:30 pm	<b>David W. Tank</b> , Princeton University Neural circuit dynamics in head-fixed awake mobile mice
1:00 pm	Closing Comments and Discussion
1:15 pm	Lunch (Take out boxes from Servery & shuttles to Dulles available)
1:15 pm 2:00 pm 2:45 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles