Sunday, March 29

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome and Opening Remarks
8:05 pm	Session 1 Chair: Scott Sternson
8:05 pm	Wolfram Schultz, University of Cambridge The dopamine reward signal codes economic utility
8:30 pm	Nora Volkow , National Institute on Drug Abuse/NIH DA role in sustaining effort by engaging prefrontal circuits and disengaging default mode network and how these systems get disrupted in addiction

Refreshments available at Bob's Pub

NOTE:

Meals are in the **Dining Room**Talks are in the **Seminar Room**Posters are in the **Lobby**



8:55 pm

Monday, March 30

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 2 Chair: Ron Stoop
9:00 am	Naoshige Uchida, Harvard University Arithmetic of dopamine reward prediction errors
9:25 am	Patricia Janak, Johns Hopkins University Parsing the role of dopamine neurons in learning and performance
9:50 am	Joshua Dudman, Janelia Research Campus/HHMI The vigorous pursuit of reward
10:15 am	Break
10:45 am	Session 3 Chair: Gul Dolen
10:45 am	Howard Fields , University of California, San Francisco Mesocorticolimbic mediation of learned appetitive behaviors: A circuit analysis
11:10 am	Kent Berridge , University of Michigan Affective neuroscience of reward and motivation: Liking, wanting, dread and disgust
11:35 pm	Jeffrey Friedman , Rockefeller University Radiowave control of feeding and glucose metabolism
12:00 pm	Bernardo Sabatini , HHMI/Harvard University The circuitry behind a simple context-dependent behavior
12:25 pm	Lunch (service ends at 1pm)
2:00 pm	Session 4 Chair: Nirao Shah
2:00 pm	Ann Graybiel , Massachusetts Institute of Technology Building action repertoires based on value: Corticostriatal dynamics
2:25 pm	Okihide Hikosaka , National Institutes of Health Voluntary and automatic gaze orienting controlled by basal ganglia circuits



2:50 pm Rui Costa, Champalimaud Neuroscience Programme Generating and shaping novel action repertoires 3:15 pm Anatol Kreitzer, Gladstone Institutes/UCSF Distinct encoding of value and choice in basal ganglia circuits 3:40 pm Break 4:10 pm **Poster Blitz!** (3 minutes / 3 slides each) **Chair: Scott Sternson** Mark Andermann, Harvard Medical School Michael Bruchas, Washington University **Ami Citri,** The Hebrew University Thomas Kash. UNC Chapel Hill Karla Kaun, Brown University Alexxai Kravitz, National Institutes of Health **Sara Matias,** Champalimaud Neuroscience Programme Hitoshi Okamoto, RIKEN Brain Science Institute **Zinaida Perova,** MRC Laboratory of Molecular Biology **Eleanor Simpson,** NYSPI/Columbia University Mitsuko Watabe-Uchida, Harvard University 5:00 pm **Poster Reception** 6:30 pm Dinner **Session 5** 8:00 pm **Chair: Paul Kenny** 8:00 pm **Kay Tye**, Massachusetts Institute of Technology A circuit mechanism for differentiating positive and negative associations 8:25 pm **Linda Wilbrecht**, University of California, Berkeley Nucleus accumbens subcircuits update the value of choices to guide future decision-making **Richard Palmiter**, HHMI/University of Washington 8:50 pm *Delineation of a neuronal circuit mediating adverse events* Refreshments available at Bob's Pub 9:15 pm



Tuesday, March 31

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 6 Chair: Rob Malenka
9:00 am	Robert Malenka , Stanford University School of Medicine Neural mechanisms of reward and aversion
9:25 am	Christian Lüscher , University of Geneva Refining deep brain stimulation to emulate optogenetic treatment of synaptic pathology
9:50 am	Julie Kauer , Brown University Blocking kappa opioid receptors, even after stress, rescues LTP-GABA and prevents reinstatement of cocaine seeking
10:15 am	Antonello Bonci , National Institutes of Health A central role for the insular cortex in mediating conditioned responses to anticipatory cues
10:40 am	Break
11:10 am	Session 7 Chair: Kay Tye
11:10 am	Lora Heisler , University of Aberdeen Serotonergic influences on eating behavior
11:35 am	Scott Sternson, Janelia Research Campus/HHMI tbd
12:00 pm	Tamas Horvath , Yale University Hypothalamic POMC neurons promote cannabinoid-induced feeding
12:25 pm	Lunch (service ends at 1pm)
1:15 pm	Tour (optional – meet at reception)



2:15 pm	Session 8 Chair: Rui Costa
2:15 pm	Paul Kenny , Icahn School of Medicine at Mount Sinai <i>Mechanisms of compulsive nicotine seeking</i>
2:40 pm	Garret Stuber , University of North Carolina at Chapel Hill Visualizing hypothalamic network dynamics for appetitive and consummatory behaviors
3:05 pm	Scott Waddell , University of Oxford Neural correlates of water reward in thirsty Drosophila
3:30 pm	Kristin Scott , HHMI/University of California, Berkeley <i>Regulation of thirst drive in Drosophila</i>
3:55 pm	Break
4:30 pm	Session 9 Chair: Patricia Janak
4:30 pm	Andreas Lüthi , Friedrich Miescher Institute for Biomedical Research Neuronal circuits for fear and anxiety
4:55 pm	Tiago Branco , MRC Laboratory of Molecular Biology A neural circuit for control of innate defensive behaviors during hunger
5:20 pm	Poster Reception
7:00 pm	Dinner
8:15 pm	Session 10 Chair: Kristin Scott
8:15 pm	Karl Deisseroth , HHMI/Stanford University <i>tbd</i>
8:40 pm	David Anderson , HHMI/California Institute of Technology Neural circuits for aggressive behavior in flies and mice
9:05 pm	Refreshments available at Bob's Pub



Wednesday, April 1

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 11 Chair: Antonello Bonci
9:00 am	Ron Stoop , University of Lausanne Optogenetic dissection of oxytocinergic circuits underlying social buffering of fear
9:25 am	Nirao Shah , University of California, San Francisco Control of sexually dimorphic behaviors
9:50 am	Gul Dolen , Johns Hopkins University Social reward: Basic mechanisms and autism pathogenesis
10:15 am	Ulrike Heberlein , Janelia Research Campus/HHMI Reward systems in Drosophila
10:40 am	Break
11:10 am	Session 12 Chair: Garret Stuber
11:10 am	Jeremiah Cohen , Johns Hopkins University School of Medicine Serotonergic neurons signal reward and punishment on multiple timescales
11:35 am	Michael Yartsev , University of California, Berkeley Navigating towards studying decision space under natural and learned conditions
12:00 pm	Tanya Sippy , New York University Cell-type-specific sensorimotor processing in striatal projection neurons during goal-directed behavior
12:25 pm	Conclusion and Final Remarks
12:30 pm	Lunch and departure
1:00 pm 2:00 pm 3:00 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

