<u>Sunday</u>

3:00 pm Check-in

6:00 pm Reception (Lobby)

7:00 pm Dinner

8:00 pm Keynote Address Sydney Brenner, Howard Hughes Medical Institute The hypothalamus: Molecular biology of neural control of physiological processes

9:00 pm Refreshments available at Bob's Pub

<u>Monday</u>

7:30 am	Breakfast
9:00 am	Session 1: Hypothalamic circuit plasticity Chair: Tom Insel
9:00 am	Dionysia T. Theodosis , Inserm and the University of Bordeaux Evaluation of neuron-glia plasticty and its physiological repercussions
9:30 am	Tamas Horvath , Yale University A critical role for mitochondrial adaptation in synaptic plasticity of hypothalamic circuits
10:00 am	Antonello Bonci, University of California, San Francisco Role of hypothalamic peptides in modulating synaptic plasticity in the VTA
10:30 am	Break and Group Photo
11:00 am	Session 2: Gender and innate behavior Chair: Susana Lima
11:00 am	Nirao Shah , University of California, San Francisco Molecular representation of gender in the brain
11:30 am	Menno R. Kruk , Leiden/Amsterdam Center for Drug Research <i>Cutting the Hessian knot: The hypothalamic network of aggression and it's</i> <i>sensitivity to the adrenocortical stress response.</i>
12:00 pm	Larry J. Young, Emory University School of Medicine The molecular mechanisms underlying social bonding
12:30 pm	Lunch
1:00 pm	Tour (optional)
2:15 pm	Session 3: Feeding and body weight Chair: Ted Brodkin
2:15 pm	Richard Palmiter , HHMI/University of Washington Role of hypothalamic neurons that express agouti-related protein on feeding behavior
2:45 pm	Scott M. Sternson , Janelia Farm Research Campus/HHMI <i>Cell type-specific neuron activation and silencing tools for dissecting molecularly-</i> <i>defined circuits</i>

3:15 pm	Joel K. Elmquist, UT Southwestern Medical Center at Dallas CNS pathways regulating body weight and glucose homeostasis
3:45pm	Break
4:15 pm	Poster Session 1
6:15 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 4: Molecular mechanisms of circadian clocks Chair: Cheryl Sisk
8:00 pm	Joseph S. Takahashi , HHMI/UT Southwestern Medical Center Use of the tetracycline Transactivator (tTA) System for the study of circadian behavior
8:30 pm	Clifford Saper , Harvard University Inducible clocks: Living in an unpredictable world
9:00 pm	Refreshments available at Bob's Pub

<u>Tuesday</u>

7:30 am	Breakfast
9:00 am	Session 5: Revealing structure-function relationships I Chair: Antonello Bonci
9:00 am	Larry W. Swanson, University of Southern California Structure-function organization of hypothalamic circuitry
9:30 am	Cheryl Sisk , Michigan State University <i>Remodeling of hypothalamic circuits during puberty and adolescence</i>
10:00 am	Jeffrey Tasker , Tulane University Synaptic circuit mechanisms of magnocellular neuron burst generation and synchronization
10:30 am	Break
11:00 am	Session 6: Revealing structure-function relationships II Chair: Catherine Dulac
11:00 am	Newton S. Canteras , University of Sao Paulo Dissecting the brain's fear system: The hypothalamus is critical for fear responding to ethological relevant threats
11:30 am	Paul E. Sawchenko , Salk Institute for Biological Studies Neurovascular mechanisms for engagement of hypothalamic stress circuitry by immune/inflammatory stimuli
12:00 pm	Joshua Corbin, Children's National Medical Center Embryonic development and connectivity of medial amygdala inhibitory neurons
12:30 pm	Lunch
2:00 pm	Session 7: Genetic approaches to study neural circuits Chair: Nirao Shah
2:00 pm	Luis de Lecea, Stanford University Optogenetic control of arousal
2:30 pm	Richard Simerly , University of Southern California Visualizing metabolic programming of hypothalamic neural circuitry
3:00 pm	Hongkui Zeng, Allen Institute for Brain Science Genetic interrogation of cortical cell type-specific structure and function

3:30 pm	Break
4:00 pm	Poster Session 2
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 8: Genetics and Genomics
8:00 pm	Edward S. Brodkin , University of Pennsylvania School of Medicine Forward genetics as a tool for revealing hypothalamic-thalamic circuits that affect intermale aggressive behaviors
8:30 pm	Catherine Dulac , HHMI/Harvard University Spatial, temporal, sex- and species-specific genomic imprinting in the mouse brain
9:00 pm	Refreshments available at Bob's Pub

Wednesday

7:30 am	Breakfast
9:00 am	Session 9: Tools for studying neuronal function Chair: Richard Simerly
9:00 am	Harold Gainer , National Institute of Neurological Disorders and Stroke Approaches and model systems directed at studies of cell-specific gene expression in the hypothalamus
9:30 am	Gareth Leng, University of Edinburgh Real time computational modelling of neuronal activity
10:00 am	Valery Grinevich , Max Planck Institute for Medical Research <i>Recombinant viruses: New versatile tools for functional connectivity and physiology</i> <i>of hypothalamic neurons</i>
10:30 am	Break
11:00 am	Session 10: Tools for mapping neuronal circuits Chair: Scott Sternson
11:00 am	Bernard Balleine , University of Sydney, Australia New behavioral tools to study the amygdalo-striatal-hypothalamic network
11:30 am	Anthony N. van den Pol , Yale University School of Medicine Neuronal interactions within hypothalamus- transgenic mice and recombinant viruses as tools to understand the hypothalamus
12:00 pm	Susana Lima, Instituto Gulbenkian de Ciência PINP- Photostimulation-assisted identification of neuronal populations
12:30 pm	Lunch and Departure (To-go boxes from servery available for those on first shuttle)
1:00 pm 1:45 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles