SUNDAY, MARCH 7
Arrival and Registration

MONDAY, MARCH 8
Welcome and Keynote Address
David Julius, University of California, San Francisco, USA
Natural Products as Probes of the Pain Pathway: From Physiology to Atomic Structure

Sensory Signals Driving Social Interactions
Sarah M.N. Woolley, Columbia University, USA
Tuning the Auditory System for Vocal Communication
Susana Lima, Champalimaud Research, Portugal
Central Circuits that Promote Sexual Behavior
Michael A. Long, NYU Langone Health, USA
Comparative Neurobiology of Vocal Communication
Short Talks Chosen from Abstracts

Homeostatic Sensation Controls Behavior
Stephen Liberles, Harvard Medical School, USA
Internal Sensory Systems
Zachary A. Knight, University of California, San Francisco, USA
The Neurobiology of Homeostasis
Elaine Y. Hsiao, University of California, Los Angeles, USA
The Microbiome in Gut-Brain Signaling
Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 9
Sensing Force: Molecules to Circuits
Ulrich Mueller, Johns Hopkins University, USA
Mechanotransduction in Hearing and Auditory Circuit Development
Ardem Patapoutian, The Scripps Research Institute, USA
Mechanical Sensing in Somatosensation and Interoception
Alexander Chesler, NIH/NCCIH, USA
Cells and Molecules for Touch and Pain
David D. Ginty, HHMI/Harvard Medical School, USA
Mechanosensory Sensory Neurons and Central Circuits of Touch
Short Talks Chosen from Abstracts

Pain, Anesthesia, and Laughter
Patrik Ernfors, Karolinska Institutet, Sweden
Role of Glia in Pain Sensation
Fan Wang, Duke University Medical Center, USA
Circuits in Affective Pain
Sophie Scott, University College London, UK
Human Sensory Processing of Vocalization
Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 10
Making Sense of Sense
Markus Meister, California Institute of Technology, USA
The Standard Model of the Retina
Sandeep Robert Datta, Harvard Medical School, USA
How the Brain Creates and Reads the Olfactory Percept
Jennifer M. Li, Max Planck Institute for Biological Cybernetics, Germany
Internal State Dynamics Shape Brainwide Activity and Foraging Behavior
Lisa Giocomo, Stanford University School of Medicine, USA
Encoding Spatial Information
Short Talks Chosen from Abstracts

Pain: Peripheral to Central
Rebecca Seal, University of Pittsburgh, USA
Tracking Etiology within Spinal Pain Circuits
Gregory Scherrer, University of North Carolina at Chapel Hill, USA
The Neural Basis of Pain Unpleasantness and its Modulation
Speaker to be Announced
Short Talks Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 11
Integrating Sensation
Lisa Stowers, The Scripps Research, USA
How Olfaction Drives Behavior
Li-Huei Tsai, Massachusetts Institute of Technology, USA
Multi-Sensory Stimulation and Alzheimer's Associated Pathology
Daniel B. Polley, Harvard Medical School / Mass. Eye and Ear, USA
Neural Coding of Patterns, Predictions and Perceptual Awareness in the Auditory System
Short Talks Chosen from Abstracts

Sensational Sensation
Cynthia F. Moss, Johns Hopkins University, USA
Bat Echolocation: 3D Auditory Scene Analysis
Gary R. Lewin, Max Delbrück Center for Molecular Medicine, Germany
Sensory Perception in the Naked Mole-Rats
David Keays, Research Institute of Molecular Pathology, Austria
Vertebrate Magnetoreception
Speaker to be Announced
Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, MARCH 12
Departure

* Session Chair † Invited but not yet accepted     Program current as of March 15, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.