SUNDAY, MARCH 14
Arrival and Registration

MONDAY, MARCH 15
Welcome and Keynote Session (Joint)
David J. Anderson, California Institute of Technology, USA
Neural Mechanisms of Aggression and Defense and of Their Associated Internal States
Charles S. Zuker, HHMI, Columbia University, USA
Overview of Gut-Brain Axis and Experimental Techniques
Vagal Circuits (Joint)
Speaker to be Announced
Misha Ahrens, Janelia Farms, USA
Imaging of Gut-Brain Circuits in Zebrafish
Jeffrey M. Friedman, Rockefeller University, USA
Molecular Mechanisms Regulating Feeding and Body Weight
Short Talks Chosen from Abstracts
Enterodendocrine Cells and Gut Hormone Signaling (X4)
Speaker to be Announced
Holly A. Ingraham, University of California, San Francisco, USA
Enterochromaffin Cells: Detection and Transduction of Environmental, Metabolic and Homeostatic Information from the Gut Directly to the Nervous System
Diego V. Bohórquez, Duke University Medical Center, USA
Transduction of a Sense from Gut to Brain
Short Talks Chosen from Abstracts
Food Appeal: Neural Circuits Encoding Perception and Value (X3)
Mark L. Andermann, Beth Israel Deaconess Medical Center, USA
Estimation of Current and Future Physiological States in Insular Cortex
Dana M. Small, Yale University School of Medicine, USA
Orosensory Monitors of Food Reward
J. Nicholas Betley, University of Pennsylvania, USA
Converging Pain and Hunger Signals
Ryan Remedios†, Helmholtz Zentrum München, Germany
Central Circuits for Cost-Benefit Estimations in Energy Balance Regulation
Short Talks Chosen from Abstracts
Poster Session 1

TUESDAY, MARCH 16
Signaling and the Brain (X4)
Scott M. Sternson, HHMI/Janelia Research Campus, USA
Algorhythms for Appetite
Lotte Bjerre Knudsen, Novo Nordisk A/S, Denmark
GLP-1 Signaling in the Brain
Speaker to be Announced
Speaker to be Announced
Short Talks Chosen from Abstracts
Food Intake and Decision-Making: Networks Promoting Food Intake in the Face of Competing Needs (X3)
Paul Glimcher†, New York University, USA
Food Craving and Decision-Making
Giovanni Marsicano, INSERM U 1215, France
Metabolic Control of Brain Functions by Cannabinoid Receptors
Sarah Garfinkel, Brighton and Sussex Medical School, UK
How Interoception Influences Affective State
Yuki Oka, California Institute of Technology, USA
Regulation of Thirst and Sodium Appetite
Short Talks Chosen from Abstracts
Mucosal Immune System (X4)
Speaker to be Announced
Daniel Mucida, Rockefeller University, USA
Neuro-Immune Communication in the Control of Inflammation in the Gut
Short Talks Chosen from Abstracts
Diet-Induced Neuroinflammation and Metabolic Circuitry (X3)
Beth Stevens†, Boston Children's Hospital, Harvard Medical School, USA
Microglia and Brain Development
Stephanie E. Fulton, University of Montreal, Canada
Neuroimmune Correlates of Diet-Induced Mood Deficits
Staci Bilbo, Duke University, USA
Microglial Signaling and Obesity Susceptibility
Cristina García Cáceres, Helmholtz Zentrum München GmbH, Germany
Disruption of Astrocyte-Neuron Crosstalk in Obesity
Short Talks Chosen from Abstracts
Poster Session 2

WEDNESDAY, MARCH 17
Microbiome (X4)
Speaker to be Announced
Rosa Krajmalnik-Brown, Biodesign Institute at Arizona State University, USA
Gut Microbiome in Obesity and Autism

John Cryan, University College Cork, Ireland
Interaction between Brain, Gut and Microbiome in Stress and Immune-Related Disorders

Fredrik Bäckhed, University of Gothenburg, Sweden
Gut Microbiome and the ENS in Metabolic Disorders

Short Talks Chosen from Abstracts

Neurodevelopmental Programming of Feeding Behavior (X3)
Jens C. Brüning, Max Planck Institute for Metabolism Research, Germany
Maternal Nutrition and Metabolic Outcomes

Marcelo O. Dietrich, Yale University, USA
Ontogeny of Feeding Behavior

Linda Rinaman, Florida State University, USA
Functional Development of Ingestive Control Circuits

Richard B. Simerly, Vanderbilt University, USA
Developmental Neurobiology of Hypothalamic Sensory-Motor Integration

Short Talks Chosen from Abstracts

Gut-Brain Axis and Disease (X4)
Jennifer L. Gommerman, University of Toronto, Canada
Influence of Gut Mucosal Immune System on CNS Autoimmune Responses / Role in Multiple Sclerosis

Patrik Brundin†, Van Andel Institute, USA
Role of Gut Inflammation in PD

Speaker to be Announced

Short Talks Chosen from Abstracts

Therapeutic Approaches (X4)
Charles Conway, Washington University in St. Louis, USA
Vagal Nerve Stimulation in Depression

Sarkis K. Mazmanian, California Institute of Technology, USA
Microbiome-Based Therapeutics for Autism

Ann Weber, Kallyope, USA
Treatment of Metabolic Disorders

Short Talks Chosen from Abstracts

Circadian and Environmental Impacts on Metabolism (X3)
Kevin D. Hall, NIDDK, National Institutes of Health, USA
Effects of Diet Composition on Metabolism

John Stuart O’Neill, MRC Laboratory of Molecular Biology, UK
Insulin Signalling Stimulates PERIOD Synthesis to Entrain Circadian Rhythms with Feeding Time

* Session Chair † Invited but not yet accepted Program current as of March 28, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.