

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Neural Control of Metabolic Physiology and Diseases (D4)

April 12-17, 2015 • Snowbird Resort • Snowbird, Utah, USA

Scientific Organizers: Dongsheng Cai and Martin G. Myers, Jr.

Supported by the Directors' Fund

Abstract & Scholarship Deadline: December 4, 2014 / Abstract Deadline: January 13, 2015 / Discounted Registration Deadline: February 12, 2015

SUNDAY, APRIL 12

Registration

MONDAY, APRIL 13

Keynote Address

Karl Deisseroth†, Stanford University, USA
Optogenetics and CLARITY in Neuroscience

Hypothalamic Circuits I

Martin G. Myers, Jr., University of Michigan, USA
Novel Populations of LepRb Neurons
Bradford B. Lowell, Beth Israel Deaconess Medical Center, USA
Neural Circuits Controlling Hunger
Jeffrey M. Friedman, Rockefeller University, USA
Transcriptional Control of Hypothalamic Neurons
Short Talk(s) Chosen from Abstracts

Nutrient Sensing, Gut and Hypothalamus

Charles S. Zuker†, Columbia University, USA
Taste Receptor and Metabolic Control
Darleen A. Sandoval, University of Cincinnati, USA
GLP1 and Gut in Hypothalamic Control of Metabolism
Tony K.T. Lam, University of Toronto, Canada
Nutrient and Hormonal Signaling in the Small Intestine
Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, APRIL 14

Neurogenesis, Remodeling and Neurodegeneration

Dongsheng Cai, Albert Einstein College of Medicine, USA
Inflammation, Hypothalamic Stem Cells and Neurodegeneration
Tamas L. Horvath†, Yale University School of Medicine, USA
Hypothalamic Control of Integrative Physiology and Health
Suzanne DeLaMonte, Brown University, USA
Brain Insulin Resistance, Neurodegeneration and 'Type-3 Diabetes'
Maribel Rios, Tufts University School of Medicine, USA
Brain BDNF Signaling in Metabolic Remodeling
Short Talk(s) Chosen from Abstracts

Therapies of Targeting the CNS Mechanisms of Obesity and Diabetes

Matthias H. Tschöp, Helmholtz Zentrum München, Germany
GLP1 Manipulation for Control of Obesity and Diabetes
Roger D. Cone, Vanderbilt University, USA
Targeting the Melanocortin System
Randy J. Seeley, University of Cincinnati, USA
Key Systems Mediating the Response to Bariatric Surgery
Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 15

Brain Immunity or Circuit Changes in Metabolic Disease

Christopher K. Glass†, University of California, San Diego, USA
Microglia Biology in Physiology and Disease
Michael W. Schwartz, University of Washington, USA
Cooperation Between Brain and Islet in Glucose Homeostasis and Diabetes
Sven Pettersson, Karolinska Institutet, Sweden
Gut Microbiota-Brain Connection in Metabolic and Behavioral Physiology
Kevin L. Grove, Oregon National Primate Research Center, USA
Circuit Changes in Obese Primates
Short Talk(s) Chosen from Abstracts

Hypothalamic Circuits II

Scott Sternson, HHMI/Janelia Farm Research Campus, USA
Neural Circuits and Motivational Mechanisms for Hunger
Shane T. Hentges, Colorado State University, USA
GABAergic and Glutamatergic Phenotypes of POMC Neurons
David Olson, University of Michigan, USA
Functional Analysis of PVH Neurons in Energy Balance
Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, APRIL 16

Cellular Signaling in the CNS

Joel K. Elmquist, University of Texas Southwestern Medical Center, USA
cAMP-Epac Pathway in Leptin Resistance
Heike Münzberg, Pennington Biomedical Research Center, USA
Leptin Action in the Dorsal Medial Hypothalamus
Barbara B. Kahn, BIDMC and Harvard Medical School, USA
Hypothalamic AMPK and Mediators
Carol F. Elias, University of Michigan, USA
Hypothalamic Signals and Circuits Linking Metabolism and Reproduction
Short Talk(s) Chosen from Abstracts

Rewarding and Ingestive Behaviors

Jeffrey M. Zigman, University of Texas Southwestern Medical Center, USA
Hormonal Control of Food Reward and Related Behaviors
Alan Watts, University of Southern California, USA
Catecholaminergic Neurons and the Regulation of Glycemia and Feeding: The Importance of Hindbrain-Hypothalamic Interactions
Luis de Lecea, Stanford University, USA
Hypothalamic Neural Circuits in Sleep and Wakefulness Cycle
Short Talk Chosen from Abstracts

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FRIDAY, APRIL 17

Departure