## Symposia

THEME A: Development Advances in Studying Human Cortical Development CME

Chair: Arnold Kriegstein, MD, PhD

Cellular and Molecular Mechanisms of Neural Regeneration CME

Chair: Zhigang He, PhD

Co-Chair: Jeffrey Goldberg, MD, PhD

**Evolution of Neural Circuits: From Axon** Guidance Genes to Spoken Language CME

Chair: Alain Chedotal, PhD

Oligodendrocyte and Myelin Plasticity and Its Impact on the Function of Neural Circuits and Behavior CME

Chair: Gabriel Corfas. PhD

THEME B: Neural Excitability, Synapses, and Glia: Cellular Mechanisms

Aerobic Glycolysis in the Brain: **Emerging Roles of Lactate in Synaptic** Plasticity and Axonal Function CME

Chair: Pierre J. Magistretti, MD, PhD

More Than a Pore: Ion Channel Signaling Complexes CME

Chair: Amy Lee, PhD

THEME C: Disorders of the Nervous System C9orf72: A Repeat Disease That Underlies Dementia and Neurodegeneration CME

Chair: Jeffrey D. Rothstein, MD, PhD Co-Chair: Laura P.W. Ranum. PhD

Nature, Nurture, and Trajectories to Mental Health CME

Chair: Takao K. Hensch. PhD

Gut Microbes and the Brain: Paradigm Shift in Neuroscience CME

Chair: Emeran A. Mayer, MD Co-Chair: Rob Knight, PhD

Infiltration of Innate Immune Cells into the Injured, Infected, or Inflamed Brain CME

Chair: Charles L. Howe. PhD

Repairing and Piloting Neuronal Networks to Control Epilepsy CME

Chair: Christophe Bernard, PhD Co-Chair: Ivan Soltesz, PhD

Target Validation in Huntington's Disease: Advances through the Development and Use of Animal Models CME

Chair: M. Flint Beal. MD

Co-Chair: X. William Yang, MD, PhD

The Latest on the Ubiquitin Pathway and CNS Disease CME

Chair: Tauseef R. Butt. PhD

THEME D: Sensory and Motor Systems **Auditory Cortical Processing** in Real-World Listening CME

Chair: Israel Nelken, PhD Co-Chair: Jennifer Bizlev. PhD

Implicit Processes in Action Control CME

Chair: Patrick Haggard, PhD Co-Chair: Hiroaki Gomi, PhD

OdorSpace: Deciphering Stimulus Space in Olfaction CME

Chair: Noam Sobel, PhD

## EMPIRICAL APPROACHES TO NEUROSCIENCE AND SOCIETY SYMPOSIUM

Improving Animal Models of Neuropsychiatric Disorders CME

Chair: Trevor Robbins, PhD Saturday, Nov. 15, 1:30-4 p.m.

The relative lack of success of big pharma in producing new drugs for psychiatric disorders has focused attention in part on improving

animal models. This symposium focuses on recent examples of innovative molecular, genetic, and behavioral approaches to animal models of schizophrenia and depression. The symposium also will provide an industrial perspective and suggest new ways of advancing collaboration and development of this field to achieve more effective translation to the clinic.



Chair: Daniele Piomelli. PhD Co-Chair: Andrea Hohmann. PhD

The Effects of Hearing Loss on Neural Processing, Plasticity, and Aging CME

Chair: Arthur Wingfield, PhD Co-Chair: Jonathan Peelle, PhD

THEME E: Integrative Systems: Neuroendocrinology, Neuroimmunology, and Homeostatic Challenge Exercise, Energy Intake, and the Brain CME

Chair: Mark P. Mattson. PhD Co-Chair: Henriette van Praag, PhD

**Neural and Immune Mechanisms Regulating** Resilience to Stress CME

Chair: Seema Bhatnagar. PhD Co-Chair: Scott Russo. PhD

THEME F: Cognition and Behavior Attention, Reward, and Information Seeking CME

Chair: Jacqueline Gottlieb, PhD Co-Chair: Antonio Rangel, PhD Neuroscience of Implicit Cognition and Learning: Current Theories and Methods CME

Chair: Richard Ivry, PhD Co-Chair: Dezso Nemeth, PhD

Studying Human Cognition with Intracranial EEG and Electrical Brain Stimulation CME

Chair: Josef Parvizi, MD. PhD Co-Chair: Robert T. Knight, MD

**Toward Naturalistic Interactive** Neuroimaging CME

Chair: Talma Hendler, MD, PhD Co-Chair: Gadi Gilam

THEME G: Novel Methods and Technology Development

Enhancing Reproducibility of Neuroscience Studies CME

Chair: Story Landis. PhD Co-Chair: Thomas Insel, MD