## SYMPOSIA AND MINISYMPOSIA

THEME A: DEVELOPMENT

SYMPOSIUM: Extracellular Vesicles: Insights Into Cell-to-Cell Communication in the Nervous System CME Chair: Jason D. Shepherd, PhD

MINISYMPOSIUM: Molecular
Mechanisms Underpinning Dopamine
Neuron Development, Diversity, and
Vulnerability CME
Chair: Raj Awatramani, PhD
Co-Chair: Sandra Blaess, PhD

MINISYMPOSIUM: Neural Proteomics in Synapse Development and Function CME

Chair: Brock Grill, PhD Co-Chair: Kirill A. Martemyanov, PhD

**SYMPOSIUM:** Neuronal Guidance in Health and Disease CME Chair: Alex L. Kolodkin, PhD

SYMPOSIUM: RNA Control of Axonal Functions CME
Chair: Jeffery L. Twiss, MD, PhD
Co-Chair: Michael Fainzilber. PhD

MINISYMPOSIUM: Sonic Hedgehog and Cell-Specific Programming: Circuits, Disease, and Repair CME Chair: Corey C. Harwell, PhD Co-Chair: Rebecca Ihrie, PhD THEME B: NEURAL EXCITABILITY, SYNAPSES,
AND GLIA
SYMPOSIUM: Unveiling the Extracellular Space of the Bri

MINISYMPOSIUM: Advances in Enteric Neurobiology: The "Brain" in the Gut in Health and Disease CME Chair: Meenakshi Rao, MD, PhD Co-Chair: Subbash Kulkarni, PhD

MINISYMPOSIUM: Cell Adhesion Molecules at the Intersection of Cell Type Identity and Neural Circuit Connectivity CME Chair: Casha Foldy, PhD Co-Chair: Joris de Wit, PhD

MINISYMPOSIUM: Molecular and Nano-Organization of Synapses CME Chair: Thomas Biederer, PhD

MINISYMPOSIUM: Multitransmitter Neurons: The Function and Regulation of Neurotransmitter Cotransmission CME Chair: Adam J. Granger, PhD

MINISYMPOSIUM: Neuromodulation of Brain States in Health and Disease: Bridging Experiments and Computational Models CME Chair: Srikanth Ramaswamy, PhD Co-Chair: Antoine Adamantidis, PhD

SYMPOSIUM: Unveiling the
Extracellular Space of the Brain:
From Super-Resolved Microstructure
to In Vivo Function CME
Chair: Valentin U. Nägerl, PhD
Co-Chair: Sabina Hrabetova, MD, PhD

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

MINISYMPOSIUM: The Endolysosomal System and Proteostasis: From Development to Degeneration CME Chair: Huaye Zhang, PhD Co-Chair: Bettina R. Winckler, PhD

SYMPOSIUM: Global Efforts to Build More Predictive Animal Models of Neurodegenerative Disease CME Chair: Bruce T. Lamb, PhD Co-Chair: Rudolph E. Tanzi, PhD

MINISYMPOSIUM: Mechanisms of Tau Oligomer-Induced Synaptic Impairment and Potential Treatment Strategies CME Chair, Ottavio Arancio, MD, PhD

Co-Chair: Frank M. Longo, MD, PhD

SYMPOSIUM: Organelle Dynamics and Proteostasis in Neuronal Homeostasis and Degeneration CME Chair: Xinnan Wang, PhD SYMPOSIUM: Repairing the Injured Nervous System: Inhibiting the Inhibitors CME

Chair: Elizabeth J. Bradbury, PhD Co-Chair: Catherina G. Becker, PhD

THEME D: SENSORY SYSTEMS

MINISYMPOSIUM: Algorithms for Olfactory Search Across Species CME Chair: Matt Smear, PhD Co-Chair: Katherine Nagel, PhD

2018 BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLES

Molecular Therapies for Neurological Diseases CME Organizer: Frank Bennett, PhD

Neuroprosthetic Devices: A Patient's Perspective on Brain Computer

Interfaces CME

Organizer: Ege T. Kavalali, PhD

Rapid Antidepressant Action: Synaptic Mechanisms and Clinical Aspects CME

What We Know, What We Don't Know: How Can We Better Understand Alzheimer's Disease to Develop Effective Treatments? CME Organizer: David M. Holtzman, MD



## SYMPOSIA AND MINISYMPOSIA (CONT.)

SYMPOSIUM: The Feeling Within: Molecules to Behavior Underlying Interoception CME

Chair: Lisa Stowers, PhD Co-Chair: Ardem Patapoutian, PhD

MINISYMPOSIUM: How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance CME Chair: Fabrizio Gabbiani, PhD Co-Chair: Florian Engert, PhD

MINISYMPOSIUM: Multidimensional Neuronal Cell Type Classification in the Cerebral Cortex CMF Chair: Jochen F. Staiger, MD Co-Chair: Staci A. Sorensen, PhD

MINISYMPOSIUM: Novel Molecular Targets for the Treatment of Pain CME Chair: John M. Streicher, PhD Co-Chair: Tally Largent-Milnes, PhD

THEME E: MOTOR SYSTEMS

MINISYMPOSIUM: The Basal Ganglia: Beyond Action Selection CME Chair: Eric A. Yttri. PhD

MINISYMPOSIUM: Cortical Control of Locomotion and Posture CMF Chair: Irina N. Beloozerova, PhD

MINISYMPOSIUM: The Dynamic Interaction of Vision and Eye Movements CMF Chair: J. Patrick Mayo, PhD

MINISYMPOSIUM: Latent Factors and Dynamics in Motor Cortex and Their Application to Brain-Machine Interfaces CME

Chair: Chethan Pandarinath, PhD

MINISYMPOSIUM: More Than Just a "Motor": Recent Surprises From the Frontal Cortex CME Chair: Christian L. Ebbesen, PhD

SYMPOSIUM: Targeted Therapies for Parkinson's Disease: From Genetics to the Clinic CME Chair: Lamya S. Shihabuddin, PhD

Co-Chair: Patrik Brundin MD PhD THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

SYMPOSIUM: Blood-Brain Barrier in Health and Disease: Role in Neurodegeneration, CNS Autoimmunity, and Gene Transfer CME Chair: Berislav V. Zlokovic, MD. PhD

MINISYMPOSIUM: Defining Dysbiosis MINISYMPOSIUM: Neuropeptide in Disorders of Movement and Motivation CME

Chair: Christopher T. Fields Co-Chair: Helen Vuong, PhD

SYMPOSIUM: The Emerging Role of the Amygdala in Modulating the Somatosensory and Emotional Components of Pain and Itch CME Chair: Benedict J. Kolber, PhD

SYMPOSIUM: Multiple Axes of Dopamine Systems for Behavioral Controls: From Fly Via Rodent to Monkey CME

Chair: Mitsuko Watabe-Uchida, PhD Co-Chair: Okihide Hikosaka, MD, PhD

SYMPOSIUM: Multiscale Computer Modeling of Neural Circuits in Health and Disease CME Chair: William W. Lytton, MD Co-Chair: Christophe Bernard, PhD

MINISYMPOSIUM: Neuronal Mechanisms for Prepulse Inhibition: Comparative Approaches From Sensory to Cognition CME Chair: Thomas Preuss, PhD Co-Chair: Susanne Schmid, PhD

Signaling: From Physiology to Behavior CME Chair: Jennifer Garrison, PhD

MINISYMPOSIUM: Sex Differences in

Risk and Resilience: Stress Effects on the Neural Substrates of Emotion and Motivation CME Chair: Cara L. Wellman, PhD

THEME G: MOTIVATION AND EMOTION

MINISYMPOSIUM: Computational Affective Neuroscience: Algorithms for

Chair: Robb B. Rutledge, PhD Co-Chair: Dominik R. Bach, MD, PhD

MINISYMPOSIUM: Insular Cortex Neurocircuits: Relationships Among Function, Connectivity, and Drug and Alcohol Abuse CME Chair: Brady K. Atwood, PhD

MINISYMPOSIUM: Neurocognitive Development of Motivated Behavior

Chair: Catherine A. Hartley, PhD Co-Chair: Dylan G. Gee, PhD

MINISYMPOSIUM: Sex Differences and Hormone Action in the Limbic System CME

Chair: John Meitzen, PhD

MINISYMPOSIUM: Social Motivation Across the Lifespan CMF Chair: Brian C. Trainor, PhD Co-Chair: Alexa H. Veenema, PhD

THEME H: COGNITION

MINISYMPOSIUM: From Recent to Remote Memory and Back CME Chair: Yaniy Ziy PhD Co-Chair: Inbal Goshen, PhD

MINISYMPOSIUM: High-Level Cognition in Low-Level Brain Regions

Chair: Rosemary A. Cowell, PhD

SYMPOSIUM: Language Networks Derived From Direct Intracranial Recordings in Humans CME Chair: Nitin Tandon, MD Co-Chair: Stanislas Dehaene, PhD

SYMPOSIUM: Mental Structures and Sequences: Evolutionary Solutions From Birds to Primates CME Chair: Christopher I. Petkov, PhD Co-Chair: Angela Friederici, PhD

MINISYMPOSIUM: The Neurobiology of Forgetting CME Chair: Maria Wimber, PhD Co-Chair: Paul W. Frankland, PhD

SYMPOSIUM: Specific Basal Forebrain-Cortical Cholinergic Circuits Coordinate Cognitive Operations CME Chair: Laszlo Zaborszky, MD, PhD

Co-Chair: Gina R. Poe, PhD

THEME I: TECHNIQUES

SYMPOSIUM: The Dynamic Brain: Signatures of Fast Functional Reconfiguration, Their Interpretability, and Clinical Value CME Chair: Javier Gonzalez-Castillo, PhD Co-Chair: Peter Bandettini. PhD

MINISYMPOSIUM: Exposing Neural Dynamics Using Real-Time Control: From Neurons to Human Behavior and Psychopathology CME Chair: Hanna Keren, PhD Co-Chair: Christoph Zrenner, MD

MINISYMPOSIUM: Human Stem Cell Models to Validate Rare and Common Variants Contributing to Neurodevelopmental Disorders CME Chair: Kristen Brennand, PhD

MINISYMPOSIUM: Innovative Approaches for Monitoring Neuromodulation With Light CME Chair: Yulong Li. PhD Co-Chair: Matthew R. Banghart, PhD

SYMPOSIUM: Local Field Potentials and Deep Brain Stimulation CME Chair: Cameron C. McIntyre, PhD

MINISYMPOSIUM: New Observations in Neuroscience Using Superresolution Microscopy CME Chair: Michihiro Igarashi, MD, PhD

MINISYMPOSIUM: Whole-Brain Analysis of Cells and Circuits by Tissue Clearing and Light-Sheet Microscopy CME Chair: Hiroki B. Ueda, MD. PhD

Co-Chair: Kwanghun Chung, PhD

THEME J: HISTORY AND EDUCATION

MINISYMPOSIUM: Telling Stories of Science Chair: Wendy A. Suzuki, PhD