

2014 NEUROSCIENCE RETREAT
September 19-20, 2014
Pere Marquette Lodge and Conference Center, Grafton, Illinois
Poster Submissions

Mahmood S. Hoseini (Wessel Lab) *Characterization and Proposed Mechanisms of Intermittent Oscillations in Cerebral Cortex*

Emily Slat (Herzog/Rubin Lab) *Using Circadian Rhythms to Optimize Glioblastoma Therapy*

Samira Mahlega Hassanpour (Culver Lab) *Modulation of effective connectivity by cognitive demands in speech comprehension: An optical tomography*

Andrew Meier (Holy/Dougherty Lab) *Primary Motor Cortex Contributions to Mouse Ultrasonic Vocal Production*

Jingfeng Li (Snyder Lab) *Neural Correlates of Functional Connectivity*

Jue Xie (Padoa-Schioppa Lab) *Neuronal Representation in the Orbitofrontal Cortex Across Choice Contexts: Stability and Remapping*

Matthew C. F. Tso (Herzog Lab) *Investigating the role of astrocytes in suprachiasmatic nucleus (SCN)*

Lauren Walker (DiAntonio Lab) *Investigating the Mechanism of a Novel Cell Death Pathway*

Mariah Lawler (Miller Lab) *Cell-Type Specific miRNA Expression in the CNS*

Katherine Conen (Padoa-Schioppa Lab) *Noise Correlations and Choice Variability in Primate Orbitofrontal Cortex*

Hung-Yu (Hank) Chen (McDermot Lab) *Are There Multiple Kinds of Episodic Memory? An fMRI Investigation Comparing Autobiographical and Recognition Memory Tasks*

Yunlu Xue (Kefalov Lab) *Mislocalization of Cone Nuclei Impairs Cone Dark Adaptation in Mice*

Wensheng Sun (Barbour Lab) *Contribution of Transient Neural Responses To Stimulus Discriminability In Auditory Cortex*

Yahya Karimipannah (Wessel Lab) *Scale-Free Cortical Resting State Activity in Vivo at Single-Cell Resolution*

Courtney Sobieski (Mennerick Lab) *Local Astrocyte Influences on Axonal Properties and Transmitter Synchrony of Hippocampal Pyramidal Neurons*

Nathaniel Wright (Wessel Lab) *Dynamics of Cortical Correlations During Vision*

Manouela Valtcheva (Gereau Lab) *Enhanced Non-Peptidergic Intraepidermal Fiber Density and Increased Trigeminal Neuron Responders to Chloroquine in a Model of Dry Skin Itch*

Haoyang Rong (Raman Lab) *Investigating the Encoding of Odor Intensity at the Level of Sensory Neurons in a Fruit Fly Antenna*

Melanie Pullen (Gereau Lab) *Optogenetic Inhibition of Peripheral Sensory Neurons and its Effect on Pain Processing*

Michelle Eisenberg (Zacks Lab) *Post-Traumatic Stress Disorder Symptom Severity Predicts Event Processing and Prediction Performance*

Christa Baker (Carlson Lab) *Phase and Amplitude Modulations of Oscillating Sensory Receptors Mediate Detection of High-Frequency Group Communication Signals in an Electric Fish.*

Chao Li (Raman Lab) *Network Adaptation Compresses Stimulus Intensity by Generating Efficient Odor Codes*

Cristina Mazuski (Herzog Lab) *Is Activation of VIP Neurons in Mammalian SCN Sufficient to Drive Circadian Rhythms in Behavior?*

Yang Shi (Holtzman Lab) *ApolipoproteinE Promotes Cell Uptake of Tau Fibrils Through LRP/LDL Receptor*

Joshua S Siegel (Corbetta Lab) *Lesion Topography and Functional Connectivity Disruption Influence Different Domains of Post-Stroke Deficit*

Tirth Patel (Holtzman Lab) *Developing Quantitative Methods for Characterizing Oligomeric Tau Species Using in Vivo and in Vitro Systems*

David Razafsky, PhD (Hodzic Lab) *A Giant and KASH-less Isoform of Nesprin1 Underlies the Molecular Etiology of Autosomal Recessive Cerebellar Ataxia Type 1 (ARCA1)*

Tsunehiko Kohashi, PhD (Carlson Lab) *Pauses During Communication Release Behavioral Habituation Through Recovery From Synaptic Depression*

Eric Mooshagian, PhD (Snyder Lab) *The Parietal Reach Region is Limb Specific and Not Involved in Gross Bimanual Coordination*

Frans Vinberg, PhD (Kefalov Lab) *The Role of Na(+)/Ca(2+), K(+) Exchanger 1 in Mammalian Vision*

Kathleen Schoch, PhD (Miller Lab) *Altered Tau Isoform Ratio by Antisense Oligonucleotides Affects Pathological and Functional Outcomes in Mouse Models*

Steve Davidson, PhD (Gereau Lab) *Electrophysiological Characterization of Adult Human Sensory Neurons*

Cheng-Chiu Huang, PhD (Liu Lab) *Molecular and Cellular Basis of Itch Sensation*

Vijay Samineni, PhD (Gereau Lab) *Optogenetic Dissection of Bladder Nociception*

Rinaldo D'Souza, PhD (Burkhalter) *Distinct Cortico-Cortical Connection Strengths in Mouse Visual Cortex Provide a Pathway-Specific Drive of Excitation and Inhibition*

Jan Kubanek, PhD (Cui Lab) *A New Tool to Control the Activity of Targeted Neurons Remotely Using Ultrasound*

Jerrah Holth, PhD (Holtzman Lab) *Sleep Disturbances in the P301S Tauopathy Mouse Model*

Kiran Yanamandra, PhD (Holtzman Lab) *Passive Immunization with an Anti-Tau Antibody in P301S Mice Reduces Tau Pathology and Improves Motor Deficits*

Rinaldo D'Souza, PhD (Burkhalter Lab) *Altered Tau Isoform Ratio by Antisense Oligonucleotides Affects Pathological and Functional Outcomes in Mouse Models*

Lauren L. Richmond, PhD (Zacks Lab) *Memory for Landmark Location in Younger and Older Adults*

Changxiong Guo (Liu Lab) *Glutamate Plays Differential Roles in Itch Signal Transduction in MrgprA3 and MrgprD Expressing Neurons*

Adarsh Reddy, MD (Dougherty Lab) *The Nuclear Transcriptional Landscape of the Mammalian Brain*

Albert Kim, PhD *CDC20-Anaphase-Promoting Complex Controls Invasiveness and Self-Renewal in Glioblastoma Stem-Like Cells*

Beau Ances, PhD *Clinical Applications of Resting State Functional Connectivity*

Brian Kim, PhD *Innate Immune Regulation of Atopic Itch*

D.P. Mohapatra, PhD *Ion Channel Modulations and Regulation of Neuronal Plasticity, Survival, and Death*

Ilya Monosov, PhD *Preliminary evidence for a novel circuit for the control of learning and memory by reward uncertainty*

*Sponsored by The McDonnell Center for Systems Neuroscience,
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