

2013 NEUROSCIENCE RETREAT

September 27 – 28, 2013

Pere Marquette Lodge and Conference Center, Grafton, Illinois

Poster Submissions

Brian Daniels (Klein) *Innate Immunity Regulates Blood Brain Barrier Function During West Nile Virus Encephalitis*

Courtney Sutphen (Fagan/Holtzman) *Evaluation of Pre-analytical and Analytical Factors That Contribute to Variability in CSF Biomarker Levels*

Christine Emmett (Mennerick) *Network Pharmacodynamics of the NMDAR Channel Blockers Memantine and Ketamine*

Ross McKinney (Ben-Shahar) *Genetic Underpinnings of Social Feeding in Drosophila Larvae*

Katherine Conen (Padoa-Schioppa) *Economic Choice and Neuronal Noise Correlation in Primate Orbitofrontal Cortex*

Renate Lewis (Transgenic Vectors Core) *TALENs and CRISPR/Cas9 for Mutant Mouse Production*

Cristina Mazuski (Herzog) *Testing the Circadian Functions of VIPergic Neurons with Optogenetics in Vitro and in Vivo*

Jingfeng Li (Snyder) *Frequency Band-Limited Functional Connectivity*

Alexander Kolesnikov (Kefalov) *Compromised Cone Dark Adaptation in Mice Lacking RDH8 and ABCA4*

Joe Jeffry (Chen) *Physiological Properties of GRPR Neurons in Mouse Dorsal Horn*

Wensheng Sun (Barbour) *Population Responses for the Simultaneous Encoding of Sound Intensity and Identity in Primary Auditory Cortex*

David Baranger (Bogdan) *Circadian Gene PER1 Influences Response to Reward and Risk for Alcohol Abuse*

Mario Ortega (Ances) *The Effects of HIV on Resting State BOLD Fronto-Striatal Connectivity*

Rinaldo D'Souza (Burkhalter) *Strength of Feedforward Inhibition Mediating Interareal Connections Between Different Areas of the Visual Cortical Hierarchy*

Patrick Wright (Culver) *Spontaneous FAD Dynamics Reveal Functional Connectivity Patterns in Mice*

Ruiye Ni (Barbour) *Modeling of Topology-Dependent Neural Network Plasticity Induced by Activity-Dependent Electrical Stimulation*

Adam Bauer (Culver) *Functional Connectivity in Mouse Models of Disease*

Alejandro Akrouh (Kerschensteiner) *Intersecting Circuits Generate Precisely Patterned Retinal Waves*

Jue Xie (Padoa-Schioppa) *Neuronal Encoding of Economic Value in the Orbitofrontal Cortex: Stability and Remapping*

Sarah DeVos (Miller) *Novel Tau Knockdown in the Adult Mouse is Protective Against Excitotoxic Seizures*

Sarah DeVos (Miller) *Antisense Reduction of Human Tau in the CNS of P301S Mice Robustly Decreases Tau Pathology*

Geraldine Kress (Mennerick) *Phasic Dopamine Release with a Genetically Encoded Biosensor*

Richard Mulligan (Reiersen/Pruett) *Association Between DRD4 Polymorphism and the Neural Correlates of Inhibitory Control in Young Adult Twins*

Pooja Vijairania (Baenziger) *Stress Signaling Networks on the Path to Neurodegeneration Modeled in Human Cells*

Jane Hettinger (Cirrito) *Role of NMDA Receptor Signaling in Amyloid-Beta Generation*

Faculty Posters

Yoshiho Ikeuchi (Bonni) *Cell-Intrinsic Regulation of Neuronal Connectivity in Brain Development and Disease*

David Razafsky (Hodzic) *Nuclear Dynamics in Mouse Retinal Development and Homeostasis*

Jo Etzel (Braver) *Reward Motivation Enhances Coding of Task-Set Representations in Frontoparietal Cortex*

Kendrick Kay *GLMdenoise: A MATLAB Toolbox for Denoising Task-Based fMRI Data*

*Sponsored by The McDonnell Center for Systems Neuroscience,
The McDonnell Center for Cellular and Molecular Neurobiology, and
the Division of Biology and Biomedical Sciences*