

## **THURSDAY, SEPTEMBER 5, 2013**

8:00 am Registration – Atrium  
9:00 Welcome/State of the CNC Address - Auditorium  
Lori McMahon, Ph.D., Professor, CNC Director

### **SESSION 1 Inflammation and Neurodegeneration**

Moderator - Rita Cowell

9:20 am “The Role of Inflammatory Mediators in the Pathophysiology and Treatment of Depression”  
Richard Shelton, M.D., Professor, Dept. of Psychiatry  
9:40 “HuR and RNA regulation: The Many Faces of Eve in CNS Disease”  
Peter King, M.D., Professor, Dept. of Neurology  
10:00 “The Role of the Inflammasome in Pain Sensitivity”  
Robert Sorge, Ph.D., Assistant Professor, Dept. of Psychology  
10:20 “The role of MHCII in an alpha-synuclein model of Parkinson disease” Ashley Harms, Ph.D., Postdoc Fellow, Dept. of Neurology  
10:35 Break

### **SESSION 2 Cell**

Moderator - Lori McMahon, Ph.D.

10:45 am “Modeling the Brain Tumor Hierarchy”  
Anita Hjelmeland, Ph.D., Assistant Prof, CDIB  
11:05 “Methyl-CpG-binding protein 2 (MeCP2) deficiency leads to altered astrocyte function”  
Vishnu Cuddapah, Ph.D., Postdoctoral Fellow, CDIB  
11:25 “Ubiquitin signaling regulates synaptic transmission”  
Scott Wilson, Ph.D., Associate Professor, Dept. of Neurobiology  
11:45 “Unfolded Protein Response as a Therapeutic Target for Retinitis Pigmentosa”  
Marina Gorbatyuk, Ph.D., Associate Professor, Dept. of Vision Sci  
Noon Lunch

### **SESSION 3 Systems Neuroscience**

Moderator - Karen Gamble

1:00 pm “Clinically effective subcortical DBS for movement disorders synchronizes cerebral cortex activity”  
Harrison Walker, M.D., Assistant Professor, Dept. of Neurology  
1:20 “Neuroeconomics and Social Behavior”  
Brendan Clark, Ph.D., Assistant Professor, Dept. of Psychiatry  
1:40 “Eye Movement Control: Behavior of Medial and Lateral Rectus Motor Units In Alert Macaques”  
Paul Gamlin, Ph.D., Professor, Dept. of Ophthalmology  
2:00 “GIRK channel regulation of circadian entrainment”  
Lauren Hablitz, Graduate Research Asst, CMDB  
2:15 Break  
**2:30 “What drives sleep:wake cycles: analysis of cellular and molecular underpinnings”**  
**Amita Sehgal, Ph.D.**  
**John Herr Musser Professor of Neuroscience**  
**Perelman School of Medicine, University of Pennsylvania**  
3:30 Advisory Meeting - Classroom 1<sup>st</sup> Floor

3:30 Softball, Swimming Pool, and Other Activities  
5:30 Reception – Atrium  
5:45 Data Blitz - Auditorium  
7:00 Dinner-Students dine with the keynote speakers  
8:30 Entertainment - Auditorium

## **FRIDAY, SEPTEMBER 6, 2013**

8:00 am Breakfast and **Room Check-Out**

### **SESSION 4 Structure and Function in Neural Circuits**

Moderator - Harrison Walker, M.D.

9:00 am “Glutamatergic dysfunction in schizophrenia”  
Adrienne Lahti, M.D., Professor, Dept. of Psychiatry  
9:20 “Direct visualization of the human dentate gyrus and Ammon's horn in vivo with ultra high resolution MRI”  
Larry Ver Hoef, M.D., Assistant Professor, Dept. of Neurology  
9:40 “Multimodal Neuroimaging Markers of Autism”  
Rajesh Kana, Ph.D., Associate Professor, Dept. of Psychology  
10:00 “Evidence for remapping of visual cortical preparatory activity, but not stimulus-driven activity after loss of central vision”  
Rodolphe Nenert, Ph.D., Postdoctoral Fellow, Dept. of Neurology  
10:15 Break

**10:30 “Serotonin and Autism: New Clues to a 50 Year Old Biomarker”**  
**Randy D. Blakely, Ph.D.**  
**Allan D. Bass Professor Pharmacology & Psychiatry**  
**Director, Silvio O. Conte Center for Neuroscience Research**  
**& Postdoctoral Training Program in Functional Neurogenomics**

11:30 Lunch

### **SESSION 5 Understanding Disease with Animal Models**

Moderator - Rajesh Kana

1:00 pm Alterations in the excitation/inhibition balance in hippocampus in an animal model of Schizophrenia  
Lynn Dobrunz, Ph.D., Associate Professor, Dept. of Neurobiology  
1:20 “GABAergic Interneurons and Schizophrenia Pathophysiology”  
Kazutoshi Nakazawa, M.D., Ph.D., Associate Prof, Dept. of Psychiatry  
1:40 “Deregulation of BDNF signaling in Rett syndrome”  
Lucas Pozzo-Miller, Ph.D., Professor, Dept. of Neurobiology  
2:00 “Epigenetics, Neurodevelopment, and Risk for Anxiety and Depression in Model Rats”  
Sarah Clinton, Ph.D., Assistant Professor, Dept. of Psychiatry  
2:20 “Elucidating the role of GSK3 in Synaptic and Cognitive Deficits in Fragile X Syndrome”  
Aimee Franklin, Graduate Student Trainee, Neuroscience  
2:30 Wrap-up, Good-byes, Hugs and Kisses