



**Society of Biological Psychiatry
67th Annual Scientific Convention & Meeting
May 3-5, 2012**

Sheraton Philadelphia Downtown Hotel – Philadelphia, Pennsylvania

**Systems Neurosciences:
Applications to Psychiatric Illnesses**

PRELIMINARY PROGRAM – SUBJECT TO CHANGES

Thursday, May 3

- 8:00 – 11:30 am** **Plenary Session – Social Cognition**
- 8:00 – 8:45 am** **The Role of Oxytocin and Vasopressin in Affiliation and Social Cognition**
Larry J. Young, PhD – Emory University
- 8:45 – 9:30 am** **The Social Brain in Adolescence**
Sarah-Jayne Blakemore, PhD – UCL Institute of Cognitive Neurosciences
- 9:30 – 10:00 am** **Break**
- 10:00 – 10:45 am** **Social Neuroscience Approach to Race and Ethnicity**
Elizabeth Phelps, PhD – New York University
- 10:45 – 11:30 am** **Learning and Development of Social-Context Dependent Behaviors in Songbirds**
Allison Doupe, MD, PhD – University of California, San Francisco
- 11:30 – 12:30 pm** **Lunch/Networking**
- 11:40 – 12:20 pm** **Special Lecture – Tom Insel**
- 12:30 – 2:30 pm** **Symposia**
- Using Endophenotypes to Define Psychotic Diagnoses
 - Connectomic Abnormalities in Schizophrenia
 - The Uniqueness of the Subgenual Anterior Cingulate Cortex
 - New Research in the Neuroscience of Pediatric Anxiety Disorders
 - Tracking Developmental Changes in ADHD: Dysmaturation in Cortico-Striatal Systems
 - New Roles of BDNF in Depression, Anxiety, Schizophrenia, and Huntington's Disease
 - Novel Approaches to the Study of Gene-Environment Relationships
 - Designer Analogs of Cathinone: A Bench to Bedside Update
 - From Neurodevelopment to Neurodegeneration: Translational Imaging Genetics Findings Across the Lifespan

Oral Sessions - TBA
Late-Breaking Sessions - TBA

2:30 – 3:00 pm

Break

3:00 – 5:00 pm

Symposia

- Is Schizophrenia a Unique Illness, or the Severe Part of a Spectrum
- Schizophrenia and Psychotic Bipolar Disease: Same and Different
- D2 Receptors, PDE10 Inhibition, and the Treatment of Psychosis
- RDoc to DSM-V: Strategies and Pathways to Integrated Dimensional Modeling in Mood Disorders
- Endophenotypes for Major Depressive Disorder (MDD) Using High Risk Design
- Quantitative fMRI in Neuropsychiatry - The Importance of BOLD Change
- Resting-State fMRI: A Window into Atypical Neurodevelopment in Psychiatric Disorders
- Identification of Novel Genes and Phenotypes Using Induced-Pluripotent Stem Cells
- Pharmacogenetics Across Dimensions of Psychiatric Disorders - A New Era?

Oral Sessions - TBA

Late-Breaking Sessions - TBA

5:00 – 6:30 pm

Poster Session

6:45 – 8:15 pm

Welcome Reception

Friday, May 4

8:00 – 11:45 am

Plenary Session – Complementary Perspective's on Imaging Functional Networks

8:00 – 8:45 am

The Physiology of the BOLD Signal

Nikos K. Logothetis, PhD – Max-Planck-Institute for Biological Cybernetics

8:45 – 9:30 am

Functional Connectivity and the Default Mode Network

Marcus Raichle, MD – Washington University St. Louis

9:30 – 10:00 am

Break

10:00 – 10:15 am

Awards

10:15 – 11:00 am

Circuits Mediating Different Psychological Domains - Understanding Schizophrenia

Cameron Carter, MD – UC Davis Imaging Research Center

11:00 – 11:45 am

Circuits Mediating Different Psychological Domains - Attention

Leslie Ungerleider, PhD – National Institutes of Health, National Institute of Mental Health

11:45 – 12:30 pm

Lunch/Networking

11:45 – 12:30 pm

Business Meeting

12:30 – 2:30 pm

Symposia

- CACNA1C: A Risk Factor for Psychoses - Next Steps
- Neurodevelopmental Genomics: The Grand Opportunity Philadelphia Cohort of Youths
- What Can Longitudinal Results in 22q11DS Bring to Schizophrenia Research?
- Early Identification of Bipolar Disorder: Symptom Dimension and Neuroimaging Approaches
- Polyunsaturated Fatty Acids in Mood Disorders and Suicide: Phenomenology and Mechanisms of Action
- RDoC in Action
- Anxiety Disorders: The Final Frontier in Psychiatric Genetics
- Network Dysfunction in Childhood Onset Schizophrenia: Neurodevelopmental and Systems Perspectives
- Epigenetic Markers and Mechanisms in Psychiatric Disease

Oral Sessions - TBA

Late-Breaking Sessions - TBA

2:30 – 3:00 pm

Break

3:00 – 5:00 pm

Symposia

- Is Psychosis a Dimensional Construct?
- Revisiting nNOS/NO for Mental Disorders: New Insight From Genetics, Molecular, and Behaviors
- Adjudicating Neuroimaging Endophenotypes for Psychotic and Mood Disorders
- Neurostimulation Treatments in Mood Disorders: New Findings
- Uncovering the Neurobiological Mechanisms Promoting Persistent Violent Offending
- Developmental Cognitive Neuroscience Perspectives on Autism and Schizophrenia
- Aberrant Neural Systems in Psychiatric Illnesses: Recent Discoveries with MEG
- Novel Mechanisms in the Neurobiology of Alcohol Dependence
- A Gene Network Perspective on Neuropsychiatric Disorders

Oral Sessions - TBA

Late-Breaking Sessions - TBA

5:00 – 6:30 pm

Poster Session

Saturday, May 5

8:00 – 9:30 am

Mini Plenary Session – Reward Processing: A Systems Neuroscience Approach

8:00 – 8:45 am

Dopamine and Prefrontal Cortex and its Relevance to Reward Processing

Amy F. T. Arnsten, PhD – Yale University School of Medicine

8:45 – 9:30 am

Modeling the Circuitry Mediating Reward System Function and Learning and its Relevance to Reward Processing

Randall C. O'Reilly, PhD – University of Colorado at Boulder

9:30 – 10:00 am

Break

10:00 – 11:30 am

Mini Plenary Session – iPS Cells: Applications to Psychiatric Illnesses

10:00 – 10:45 am

iPS Cells: Applications to Schizophrenia

Ronald McKay, PhD – The Leiber Institute for Brain Development

10:45 – 11:30 am

iPS Cells: Applications to Autism

Ricardo E. Dolmetsch, PhD – Stanford University

11:30 – 12:30 pm

Lunch/Networking

12:30 – 2:30 pm

Symposia

- Can Rare Genetic Conditions Inform us About Schizophrenia?
- Williams Syndrome and Autism: Two Sides of a Coin?
- Deep Brain Stimulation for Major Depression - Translational Research and Clinical Effect
- The Pathophysiology of Irritability: Developmental Perspectives
- The Long Run: Longitudinal Studies in Psychiatry for a Better Understanding of Underlying Neuroscience and Circuitry Changes
- Epistasis, Gene Networks, and the Molecular Architecture of Schizophrenia Related Traits
- Drugs and Reward: From Pptogenetics to Epigenetics
- Modulation of Pain Perception in Psychiatric Diseases: Clinical and Experimental Considerations
- Integration of Genomics, Epigenomics and Genetics for a Biological Understanding of Psychiatric Diseases

Oral Sessions - TBA

Late-Breaking Sessions - TBA

2:30 – 3:00 pm

Break

3:00 – 5:00 pm

Symposia

- Candidate Genes in Schizophrenia: A New Page in our Understanding
- Emotion and Cognition in Schizophrenia: Integrating Psychophysiology, Imaging and ???
- Pediatric PTSD: Integrating Neuroscience and Treatment
- Oxytocin: Genetics, Interactions and Treatments for Autism
- Pharmacogenetics in Psychiatric Practice: A Self-Evident Truth
- Translational Research on Deep Brain Stimulation
- Plasticity Pathways and Sleep Homeostasis I: Molecular & Cellular Underpinnings
- Biomarker Discovery In Traumatic Brain Injury: Applications In Personalized Medicine
- Sex, Stress, and Environmental Modulation of Neurodevelopment and Adult Behavioral Susceptibilities

Oral Sessions - TBA

Late-Breaking Sessions - TBA

5:00 – 6:30 pm

Poster Session