

8:00 a.m. – 9:15 a.m.
Mini Panel
Diplomat Ballroom 1 & 2

Beyond Ketamine, Can Selective Targeting of the NMDA Receptor Produce Antidepressant Response without Psychotomimetic Effects: Clinical Results with Three Novel Compounds

Chair: Gerard Sanacora

- 8:00 a.m. Beyond Ketamine: Next Generation NMDA Antagonists Show Rapid Antidepressant Effects, without Psychotomimetic Effects
Nancy Diazgranados
- 8:25 a.m. A Phase 2, Randomized, Double Blind, Single Intravenous Dose Study of GLYX-13, an NMDA Receptor Glycine Site Functional Partial Agonist, in Subjects with Major Depressive Disorder with Inadequate Response to Antidepressant Medication
Ronald M. Burch
- 8:50 a.m. Randomized Trial of AZD6765, an N-methyl-D-aspartate (NMDA) Channel Blocker, as Adjunct Treatment for Major Depression
Sanjeev Pathak

MP

9:15 a.m. – 10:30 a.m.

Mini Panel

Diplomat Ballroom 1 & 2

Beyond the NMDA Receptor-Alternative Glutamatergic Targets for Antidepressant Treatment

Chair: Yogesh Dwivedi

Co-Chair: P. Jeffrey Conn

- 9:15 a.m. Altered Affective Behavior in Kainate Receptor Knockout Mice
Anis Contractor
- 9:40 p.m. RNA Editing of an AMPA Receptor Subunit is Altered in Major
Depression and Suicide
Monsheel Sodhi
- 10:05 a.m. Selective mGlu5 NAMs for the Treatment of MDD
Carrie K. Jones

MP

8:00 a.m. – 10:30 a.m.
Panel
Regency Ballroom 3

Hippocampus and Addiction: New Neurons, New Circuits, and New Responses

Chair: Rita A. Fuchs

- 8:00 a.m. Role of the Dorsal Hippocampus in the Reconsolidation and Utilization of Associative Memories that Maintain Drug Context-induced Cocaine Seeking
Rita A. Fuchs
- 8:30 a.m. Individual Differences in Substance Abuse Liability: Implicating the Hippocampus
Huda Akil
- 9:00 a.m. Ventral Hippocampal Regulation of Medial VTA Dopamine System and its Role in Addiction
Anthony A. Grace
- 9:30 a.m. Linking Context with Reward: Hippocampal and Septal Circuit Projections to Ventral Tegmental Area Play Critical Roles in Cocaine Relapse
Gary Aston-Jones
- 10:00 a.m. Discussant: *Nora D. Volkow*

PA

8:00 a.m. – 10:30 a.m.

Panel

Regency Ballroom 2

Neural Networks across Development in Health, Anxiety/ Depression, and Treatment Implications

Chair: Monique Ernst

8:00 a.m. Overcoming the Detrimental Effects of Motion on Resting State fMRI

Michael Milham

8:30 a.m. Altered Intrinsic Connectivity and Error-processing Function of Salience Network in Pediatric Obsessive Compulsive Disorder

Kate D. Fitzgerald

9:00 a.m. What can Amygdala Functional Connectivity Tell Us about the Development of Anxiety Disorders?

Amy K. Roy

9:30 a.m. From Correlation to Causation in Resting-state fMRI: Network Dynamics in Psychopathology and with Concurrent TMS/fMRI

Amit Etkin

10:00 a.m. Discussant: *Angus W. MacDonald*

PA

8:00 a.m. – 10:30 a.m.
Panel
Regency Ballroom 1

Harnessing Cortical Plasticity for Therapeutic Purposes

Chair: Sophia Vinogradov

- 8:00 a.m. Shaping Brain Circuits with Auditory Experience
Etienne de Villers-Sidani
- 8:30 a.m. Directing Cortical Plasticity to Understand and Treat
Neurological Disease
Michael P. Kilgard
- 9:00 a.m. Long-lasting Enhancement of Visual Perceptual Learning in
Healthy Humans by the Cholinesterase Inhibitor Donepezil
Michael A. Silver
- 9:30 a.m. Harnessing Prefrontal Plasticity through Videogame Training to
Address Multitasking Deficits across the Adult Lifespan
Adam Gazzaley
- 10:00 a.m. Discussant: *Akira Sawa*

PA

8:00 a.m. – 10:30 a.m.

Panel

Atlantic Ballroom 3

**Balancing Benefits, Risks and Cost for New Treatments in
Vulnerable Populations: Lessons from Child Psychiatry on the
Need for a New Standard of Diverse Methodologies**

Chair: Christoph U. Correll

Co-Chair: John W. Newcomer

- 8:00 a.m. One Year Follow-up Longitudinal Study with a Large Sample of Antipsychotic-naïve Children and Adolescents
Celso Arango
- 8:30 a.m. The Value of Randomized Clinical Trials: Data from the Metabolic Effects of Antipsychotics in Children (MEAC) Study
Ginger E. Nicol
- 9:00 a.m. Mixed Methods in Health Services Research to Understand Real-world Acceptance of Safety Recommendations for Psychopharmacologic Treatments
Elaine H. Morrato
- 9:30 a.m. Economic Evaluation in Child Psychiatry---An Example from the Metabolic Effects in Antipsychotic Treatment of Children Study
Steven M. Kymes
- 10:00 a.m. Discussant: *John W. Newcomer*

PA

8:00 a.m. – 10:30 a.m.

Panel

Atlantic Ballroom 2

Metabotropic Glutamate Receptors (mGluRs) and Addiction

Chair: Jill B. Becker

- 8:00 a.m. Estradiol Influences Dopamine and GABA Release in the Striatum via mGluR5
Jill B. Becker
- 8:30 a.m. Estrogen Receptors Located at the Surface Membrane Activate Metabotropic Glutamate Receptor Signaling
Paul G. Mermelstein
- 9:00 a.m. Unique Roles for Ventral and Dorsal Striatum mGluR5 in Extinction Learning and Relapse to Cocaine Seeking
Lori A. Knackstedt
- 9:30 a.m. Restoration of Infralimbic mGluR2 Deficit Rescues Control Over Drug Seeking in Alcohol Dependence
Wolfgang H. Sommer
- 10:00 a.m. Discussant: *M. Foster Olive*

PA

8:00 a.m. – 10:30 a.m.

Panel

Atlantic Ballroom 1

**Affective Neuroscience of Young Monkeys to Developing
Population: Translational Studies of Brain Function Informing
Interventions**

Chair: Mani Pavuluri

Discussant: Richard Davidson

- 8:30 a.m. Identification of Novel Targets in the Developing Primate
Amygdala for the Early Treatment of Childhood Anxiety
Ned H. Kalin
- 8:30 a.m. Translational Imaging Studies of Natural Products as Treatments
for Pediatric Depression
Perry Renshaw
- 9:00 a.m. Brain Functional Mechanisms of Treating Pediatric Mania
Mani Pavuluri
- 9:30 a.m. Amygdala Activation and Prefrontal Cortex Functional
Connectivity: Potential Targets for Treatment of Autism
Spectrum Disorders
Christopher S. Monk
- 10:00 a.m. Discussant: *Richard Davidson*

PA

12:00 p.m. – 2:30 p.m.
Panel
Diplomat Ballroom 1 & 2

Functional and Structural Alterations in the Insula are Central to the Pathophysiology of Both Anorexia Nervosa and Obesity

Chair: Guido KW. Frank

Co-Chair: Walter Kaye

- 12:00 p.m. The Role of the Insular Cortex in Flavor Preference Formation
Dana Small
- 12:30 p.m. Pain and Pending Pictures: Increased Insula Response in Anorexia Nervosa
Alan Simmons
- 1:00 p.m. Regional Gray Matter Volumes in the Insula Distinguish Anorexia Nervosa and Obesity
Guido KW. Frank
- 1:30 p.m. Circuits Connecting Somatic/Visceral-Related Insular Areas with Eating/Reward Areas in the Ventromedial Prefrontal Cortex
Joseph L. Price
- 2:00 p.m. Discussant: *Martin Paulus*

PA

12:00 p.m. – 2:30 p.m.

Panel

Atlantic Ballroom 2

Neuroimaging Predictors of Treatment Effects in High-risk and Bipolar Individuals across the Lifespan

Chair: Caleb Adler

- 12:00 p.m. Neurobiological and Genetic Risk Factors for Antidepressant-induced Mania in Youth at Risk for Bipolar Disorder
Kiki Chang
- 12:30 p.m. Neurofunctional Effects of Ziprasidone in Manic Adolescents with Bipolar Disorder
Melissa DelBello
- 1:00 p.m. Neurophysiological Effects of Bipolar Medications across Mood State
Caleb Adler
- 1:30 p.m. White Matter Correlates of Antipsychotic and Lithium Response in Bipolar Disorder: A Meta-analysis and Meta-regression of Diffusion Tensor Imaging findings
Sophia Frangou
- 2:00 p.m. Discussant: *Ellen Leibenluft*

PA

12:00 p.m. – 2:30 p.m.
Panel
Atlantic Ballroom 3

Sink or Swim: Take Your Raft and Fyns Down the STEPs to Navigate NMDA Receptor Pools in Neuropsychiatric Disorders

Chair: Jacqueline F. McGinty

- 12:00 p.m. Genetic Manipulation of Striatal Enriched Phosphatase (STEP)
Rescues Behavioral Abnormalities and seizures in a Mouse
Model of Fragile X
Janice R. Naegele
- 12:30 p.m. Neuroprotective Role of STEP, a Brain-enriched Tyrosine
Phosphatase, in Focal Cerebral Ischemia
Surojit Paul
- 1:00 p.m. Fyn, Tyrosine Phosphatases and Alcohol Drinking Behaviors
Dorit Ron
- 1:30 p.m. The Role of GluN2B Receptors and STEP in the ERK Shutoff
Induced by Cocaine Self Administration in Rats
Jacqueline F. McGinty
- 2:00 p.m. Discussant: *Paul J. Lombroso*

PA

12:00 p.m. – 2:30 p.m.

Panel

Regency Ballroom 2

Non-invasive Brain Modulation to Enhance Inhibitory Control and Drive in Psychiatric Disorders: a Translational Approach with a Focus on Dopaminergic Modulation of Fronto-striatal Pathways

Chair: Rita Goldstein

- 12:00 p.m. The Effects of Modafinil and Methylphenidate in Neuropsychiatric Disorders
Barbara J. Sahakian
- 12:30 p.m. Oral Methylphenidate Improves Inhibitory Control and Resting-state Functional Connectivity in Cocaine Addiction: An fMRI Study
Rita Goldstein
- 1:00 p.m. Noninvasive Nonpharmacological Approach to Modulate Cognition and Decision Making in Addiction
Felipe Fregni
- 1:30 p.m. Dopaminergic Modulation in a Preclinical Model of Risky Decision Making
Barry Setlow
- 2:00 p.m. Discussant: *Ruben Gur*

PA

12:00 p.m. – 2:30 p.m.
Panel
Atlantic Ballroom 1

Neuronal Mechanisms for Behavioral and Psychiatric Vulnerability in Adolescents

Chair: Bitá Moghaddam
Co-Chair: Patricio O'Donnell

- 12:00 p.m. Neuronal Processing Differences in the Orbitofrontal Cortex and Striatum of Adolescents and Adults during Motivated Behavior
Bitá Moghaddam
- 12:30 p.m. Reward Network in Adolescents: Longitudinal Data and Functional Connectivity
Monique Ernst
- 1:00 p.m. Adolescent Maturation of Cortico-accumbens Circuits and Risk for Addictive Behavior
Patricio O'Donnell
- 1:30 p.m. Developmental Impairment of Local Prefrontal GABAergic Circuits by Altered Glutamatergic Transmission during Adolescence
Kuei Y. Tseng
- 2:00 p.m. Discussant: *Linda P. Spear*

PA

12:00 p.m. – 2:30 p.m.

Panel

Regency Ballroom 3

The Orexins: Bench To Bedside and Beyond

Chair: David Michelson

- 12:00 p.m. The Hypocretin/Orexin System: Neuropeptides Involved in Sleep/Wake and Multiple Other Functions
Thomas S. Kilduff
- 12:30 p.m. Role of Hypocretin/Orexin Receptors in Arousal Control
Luis de Lecea
- 1:00 p.m. Efficacy and Safety of Suvorexant, an Orexin Receptor Antagonist, in Patients with Primary Insomnia: Results from Three Phase 3 Trials
W. Joseph Herring
- 1:30 p.m. Orexin Agonists and Antagonists Effects beyond Insomnia
Thomas Roth
- 2:00 p.m. Discussant: *Andrew Krystal*

PA

12:00 p.m. – 2:30 p.m.
Panel
Regency Ballroom 1

Microdomain-Specific Proteome Abnormalities in Severe Mental Illness

Chair: Robert McCullumsmith

- 12:00 p.m. Playing in Traffic: Protein Trafficking and Membrane Domains
in Polarized Cells
Bettina Winckler
- 12:30 p.m. Identification and Characterization of a Putative Subcellular
Microdomain: Evidence for Disruption of the Coupling
of Glutamate Transporters and Glycolytic Enzymes with
Mitochondria in Schizophrenia
Robert McCullumsmith
- 1:00 p.m. Evidence from Proteomic Analysis of Schizophrenia Implicates
the Cellular Process of Clathrin Mediated Endocytosis in
Schizophrenia
David Cotter
- 1:30 p.m. PSD Protein Partitioning is Altered in the DLPFC of
Schizophrenia
Chang-Gyu Hahn
- 2:00 p.m. Discussant: *Joseph Coyle*

PA