Research

Original Investigation
751 Atypical Cross Talk Between Mentalizing and Mirror Neuron Networks in Autism Spectrum Disorder
I Fishman and Coauthors

Stress-Induced Increase in Kynurenic Acid as a Potential Biomarker for Patients With Schizophrenia and Distress Intolerance
J Chiappelli and Coauthors

Medial Temporal Lobe Structures and Hippocampal Subfields in Psychotic Disorders: Findings From the Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Study
I Mathew and Coauthors

Variability in Working Memory Performance Explained by Epistasis vs Polygenic Scores in the ZNF804A Pathway
KK Nicodemus and Coauthors for the Schizophrenia Psychiatric Genome-wide Association Study (GWAS) Consortium and The Wellcome Trust Case Control Consortium 2

Effect of Prenatal Exposure to Tobacco Smoke on Inhibitory Control: Neuroimaging Results From a 25-Year Prospective Study
NE Holz and Coauthors

Brain Nicotinic Acetylcholine Receptor Availability and Response to Smoking Cessation Treatment: A Randomized Trial
AL Brody and Coauthors

Plasticity of Hippocampal Subfield Volume Cornu Ammonis 2+3 Over the Course of Withdrawal in Patients With Alcohol Dependence
S Künn and Coauthors

Risky Decision Making, Prefrontal Cortex, and Mesocorticolimbic Functional Connectivity in Methamphetamine Dependence
M Kohno and Coauthors

The Changing Face of Heroin Use in the United States: A Retrospective Analysis of the Past 50 Years
TJ Cicero and Coauthors

Brain Structure and Functional Connectivity Associated With Pornography Consumption: The Brain on Porn
S Künn and J Gallinat

Opinion

Viewpoint
745 National Institute of Mental Health Clinical Trials: New Opportunities, New Expectations
TR Insel and N Gogtay

Combined Pharmacotherapy and Psychotherapy in the Treatment of Mild to Moderate Major Depression?
P Cuijpers

Editorial
749 Distress Intolerance, Kynurenic Acid, and Schizophrenia
DC Javitt

Clinical Review & Education

Neuroscience and Psychiatry
835 Synaptic Health
JH Morrison and MG Baxter

Continuing Medical Education
844 Online CME Quiz Questions

LETTERS
Research Letter
838 Prevalence of N-Methyl-D-Aspartate Receptor Autoantibodies in the Peripheral Blood: Healthy Control Samples Revisited
J Steiner and Coauthors

Comment & Response
839 Rehabilitation and Causes of Premature Mortality in Patients With Traumatic Brain Injury

HUMANITIES
Art and Images in Psychiatry
742 The Dying Seneca: Peter Paul Rubens
JC Harris

Issue Highlights and Continued Contents on page 727
ORIGINAL RESEARCH

Clinical Staging in Bipolar Disorder: Focus on Cognition and Functioning
Adriane R. Rosa, Pedro V. S. Magalhães, Letícia Czepielewski, Mirêla Viana Sulzbach, Pedro D. Goi, Eduard Vieta, Clarissa S. Gama, and Fidvio Kapczinski

META-ANALYSIS

Pharmacologic and Behavioral Interventions to Improve Cardiovascular Risk Factors in Adults With Serious Mental Illness: A Systematic Review and Meta-Analysis
Jennifer M. Gierisch, Jason A. Nieuwmsma, Daniel W. Bradford, Christine M. Wilder, Monica C. Mann-Wrobel, Amanda J. McBroom, Vic Hasselblad, and John W. Williams Jr

Meta-Analysis of Selective Serotonin Reuptake Inhibitor–Associated QTc Prolongation
Scott R. Beach, William J. Kostis, Christopher M. Celano, James L. Januzzi, Jeremy N. Ruskin, Peter A. Noseworthy, and Jeff C. Huffman

FOCUS ON CHILDHOOD AND ADOLESCENT MENTAL HEALTH

Psychiatric Comorbidity in Hospitalized Adolescents With Borderline Personality Disorder
Carolyn Ha, Jessica C. Balderas, Mary C. Zanarini, John Oldham, and Carla Sharp

BOOK REVIEWS

Bipolar II Disorder: Modelling, Measuring and Managing, 2nd ed

Schizo-Obsessive Disorder

ONLINE ACTIVITIES

Translating Clinical Science Into Effective Therapies [CME] [Free Online]
Michael E. Thase

Monitoring Pharmacotherapy Response, Safety, and Tolerability to Enhance Adherence in Bipolar Disorder [CME] [Free Online]
Paul E. Keck, Jr

Obsessive-Compulsive Disorder in Youth: Assessment and Treatment [CME] [Free Online]
Jennifer G. Wells

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469
Research

Stress-Induced Kynurenic Acid 761
Using a computerized task designed to be frustrating, Chiappelli and colleagues discovered that stress induces an increase in salivary levels of kynurenic acid, an endogenous neuromodulator with nicotinic and N-methyl-D-aspartate antagonist properties. Patients with schizophrenia who were unable to tolerate the task and quit early exhibited unusually elevated levels of salivary kynurenic acid, implicating the kynurene pathway in the pathophysiological mechanism of stress in schizophrenia.

Medial Temporal Lobe and Hippocampal Subfields 769
Mathew and colleagues used high-resolution structural magnetic resonance imaging to quantify hippocampal subfield volumes across the psychosis spectrum. They reported reduced subfield volume most pronounced in the cornu ammonis 2/3, subiculum, and dentate gyrus among patients diagnosed as having schizophrenia, schizoaffective, or psychotic bipolar disorder. Furthermore, these subfield volumes correlated with positive symptoms as well as declarative memory, suggesting that hippocampus-related cognitive deficits may underlie the pathophysiology of psychosis.

Effect of Prenatal Exposure to Tobacco Smoke on Inhibitory Control 786
Using data from an epidemiological cohort study followed up since birth, Holz and colleagues reported that prenatal nicotine exposure resulted in weaker activation in the anterior cingulate cortex and the inferior frontal gyrus during inhibitory control as well as in decreased volume in the inferior frontal gyrus, despite controlling for various confounders. Activity was inversely related to lifetime attention-deficit/hyperactivity disorder in the inferior frontal gyrus and novelty seeking in the anterior cingulate cortex.

Hippocampal Subfield Volume CA 2+3 in Alcoholic Patients 806
Kühn and colleagues showed neuroplasticity deficits in the hippocampal subfields cornu ammonis (CA) 2+3 of patients dependent on alcohol but not in healthy control individuals when comparing high-resolution structural magnetic resonance images acquired after withdrawal and 2 weeks later. The volume of cornu ammonis 2+3 in patients directly after withdrawal was negatively associated with years of regular alcohol consumption and more severe alcohol withdrawal symptoms.

Risky Decision Making in Methamphetamine Users 812
Kohn and colleagues examined the relationship between resting-state functional connectivity within the mesocorticolimbic system and sensitivity of regional activation to levels of risk during risky decision making in methamphetamine-dependent and healthy individuals. The groups differed in midbrain functional connectivity and sensitivity of activation in the dorsolateral prefrontal cortex and striatum during risky decision making.