

# Biological Psychiatry

A Journal of Psychiatric Neuroscience and Therapeutics

Volume 81, Number 6, March 15, 2017

## SCHIZOPHRENIA: CIRCUITRY AND MECHANISMS

### IN THIS ISSUE - MARCH 15TH

- 461 **A brief summary of the articles appearing in this issue of *Biological Psychiatry*.**

### COMMENTARIES

- 463 **Connecting the Dots**  
*Jyothi Arikath and Károly Mirnics*  
» See corresponding article on page 495
- 465 **I Predict, Therefore I Am: Perturbed Predictive Coding Under Ketamine and in Schizophrenia**  
*Philip R. Corlett*  
» See corresponding article on page 514
- 467 **Reduced Somatostatin Expression or Somatostatin-Positive Gamma-Aminobutyric Acid Neurons: A Shared Pathology Across Brain Disorders**  
*Etienne Sibille*  
» See corresponding article on page 536

### EARLY CAREER INVESTIGATOR COMMENTARY

- e41 **Using Hybrid Modeling to Determine the Latent Structure of Psychopathology**  
*Diana J. Whalen*  
» See corresponding article on page 484

### PRIORITY COMMUNICATION

- 470 **An Examination of Polygenic Score Risk Prediction in Individuals With First-Episode Psychosis**  
*Evangelos Vassos, Marta Di Forti, Jonathan Coleman, Conrad Iyegbe, Diana Prata, Jack Euesden, Paul O'Reilly, Charles Curtis, Anna Kolliakou, Hamel Patel, Stephen Newhouse, Matthew T aylor, Olesya Ajnakina, Valeria Mondelli, Tiago Reis Marques, Poonam Gardner-Sood, Katherine J. Aitchison, John Powell,*

*Zerrin Atakan, Kathryn E. Greenwood, Shubulade Smith, Khalida Ismail, Carmine Pariante, Fiona Gaughran, Paola Dazzan, Hugh S. Markus, Anthony S. David, Cathryn M. Lewis, Robin M. Murray, and Gerome Breen*

### REVIEW

- 478 **It's All in the Brain: A Review of Available Functional Genomic Annotations**  
*Sarah A. Gagliano*

### ARCHIVAL REPORTS

- 484 **Data-Driven Phenotypic Categorization for Neurobiological Analyses: Beyond DSM-5 Labels**  
*Nicholas T. Van Dam, David O'Connor, Enitan T. Marcelle, Erica J. Ho, R. Cameron Craddock, Russell H. Tobe, Vilma Gabbay, James J. Hudziak, F. Xavier Castellanos, Bennett L. Leventhal, and Michael P. Milham*  
» See commentary on page e41
- 495 **Connectome Disconnectivity and Cortical Gene Expression in Patients With Schizophrenia**  
*Ingrid A.C. Romme, Marcel A. de Reus, Roel A. Ophoff, René S. Kahn, and Martijn P. van den Heuvel*  
» See commentary on page 463
- 503 **Hypofrontality and Posterior Hyperactivity in Early Schizophrenia: Imaging and Behavior in a Preclinical Model**  
*Gen Kaneko, Basavaraju G. Sanganahalli, Stephanie M. Groman, Helen Wang, Daniel Coman, Jyotsna Rao, Peter Herman, Lihong Jiang, Katherine Rich, Robin A. de Graaf, Jane R. Taylor, and Fahmeed Hyder*

514 **Role of N-Methyl-D-Aspartate Receptors in Action-Based Predictive Coding Deficits in Schizophrenia**

*Naomi S. Kort, Judith M. Ford, Brian J. Roach, Handan Gunduz-Bruce, John H. Krystal, Judith Jaeger, Robert M.G. Reinhart, and Daniel H. Mathalon*

» See commentary on page 465

525 **7T Proton Magnetic Resonance Spectroscopy of Gamma-Aminobutyric Acid, Glutamate, and Glutamine Reveals Altered Concentrations in Patients With Schizophrenia and Healthy Siblings**

*Katharine N. Thakkar, Lara Rösler, Jannie P. Wijnen, Vincent O. Boer, Dennis W.J. Klomp, Wiepke Cahn, René S. Kahn, and Sebastiaan F.W. Neggers*

536 **Decreased Numbers of Somatostatin-Expressing Neurons in the Amygdala of Subjects With Bipolar Disorder or Schizophrenia: Relationship to Circadian Rhythms**

*Harry Pantazopoulos, Jason T. Wiseman, Matej Markota, Lucy Ehrenfeld, and Sabina Berretta*

» See commentary on page 467



The schematic on the cover provides an overview of the data processing and analysis employed by Romme *et al.* (in this issue, pages 495-502). They combined cortical gene expression and neuroimaging data to find that the expression profile of schizophrenia risk genes across the brain is correlated with the cortical pattern of white matter connectome disconnectivity in patients with schizophrenia. See Figure 1 for full details.



= content available online only