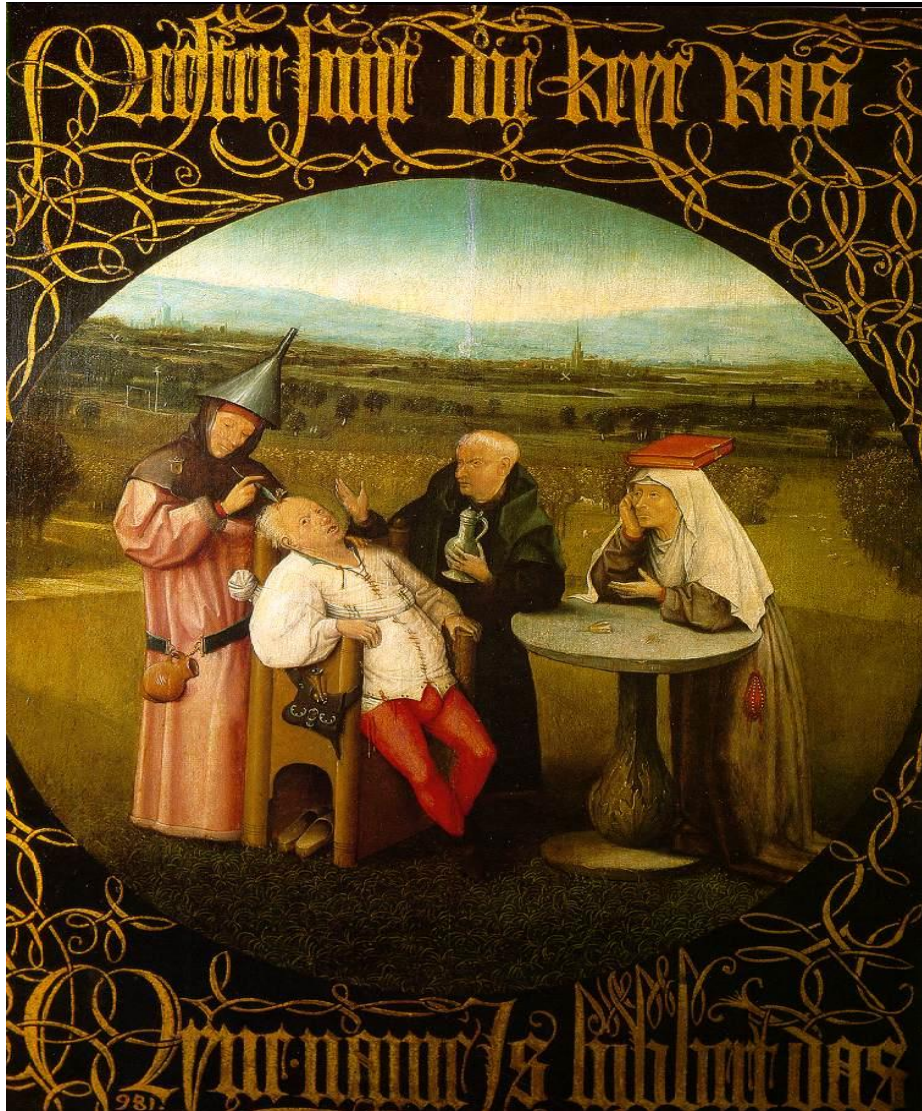


104<sup>th</sup> Annual Meeting of the  
American Psychopathological Association

*March 6-8, 2014 Grand Hyatt New York*



*Hieronymus Bosch – Cure of Folly c. 1494*

**Pursuing Personalized Treatment for Mental Illness**

**APPA**

AMERICAN PSYCHOPATHOLOGICAL ASSOCIATION, INC.

1910–2014

**SPEAKERS**

Jeffrey A. Lieberman, MD  
*Columbia University, NYSPI*

Irving I. Gottesman, PhD  
*University of Minnesota*  
*University of Virginia*

Thomas Insel, MD  
*National Institute of Mental Health*

Nora D. Volkow, MD  
*National Institute on Drug Abuse*

Preben Bo Mortensen, MD  
*University of Aarhus, Denmark*

Husseini K. Manji, MD, FRCPC  
*Janssen Research & Development, LLC*

David J. Kupfer, MD  
*University of Pittsburgh*

Geoffrey M. Reed, PhD  
*World Health Organization*

Bruce N. Cuthbert, PhD  
*National Institute of Mental Health*

Ed Bullmore, FMedSci  
*University of Cambridge*

Anissa A. Abi-Dargham, MD  
*Columbia University*

Patrick F. Sullivan, MD, FRANZCP  
*University of North Carolina*

Linda Cottler, PhD, MPH  
*University of Florida*

John H. Krystal, MD  
*Yale University*

Monica Uddin, PhD  
*Wayne State University*

Alan S. Brown, MD, MPH  
*Columbia University*

Kristen J. Brennand, PhD  
*Icahn School of Medicine at Mount Sinai*

György Buzsáki, MD, PhD  
*New York University*

Eric J. Nestler, MD, PhD  
*Icahn School of Medicine at Mount Sinai*

Joseph Piven, MD  
*University of North Carolina*

Maria Karayiorgou, MD  
*Columbia University*

George F. Koob, PhD  
*National Institute on Alcohol Abuse and Alcoholism*

Carolyn Rodríguez, MD, PhD  
*Columbia University*

Robert L. Klitzman, MD  
*Columbia University*

Helen S. Mayberg, MD  
*Emory University*

Ramin V. Parsey, MD, PhD  
*Stony Brook University*

Steven M. Paul, MD  
*Weill Cornell University*

Charles R. Marmar, MD  
*New York University, Langone Medical Center*

**CHAIRS**

Myrna M. Weissman, PhD  
*Columbia University*

J. Raymond DePaulo, Jr., MD  
*Johns Hopkins University*

Robert M.A. Hirschfeld, MD  
*University of Texas Medical Branch*

Mary Jeanne Kreek, MD  
*The Rockefeller University*

Shelli Avenevoli, PhD  
*National Institute of Mental Health*

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*Brown University*  
*Coordinator*

## SCIENTIFIC PROGRAM

### Pursuing Personalized Treatment for Mental Illness

Personalized medicine has the potential to revolutionize health care including psychiatry. Personalized medicine promises to inform diagnosis and treatment of brain disorders affecting mental functions and behavior by enabling more valid and specific diagnosis and the individualized selection of treatments. A new era of personalized medicine tailored to the patient's unique biomarkers to specify treatment choices is beginning to emerge throughout medicine and in psychiatry.

The 2014 APPA Annual meeting brings together experts to describe the most promising biomarkers, which may form the basis for future personalized medicine in psychiatry. Scientists who are conducting research on the development of testing biomarkers in depression, anxiety disorders, schizophrenia or addiction, will also describe their most recent and salient findings.

*Jeffrey A. Lieberman, MD, President, 2014*

*Myrna M. Weissman, PhD, and Anissa A. Abi-Dargham, MD, Program Co-Chairs, 2014*

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### THURSDAY, 6 MARCH

- 8:15 – 9:00 AM      **REGISTRATION AND CONTINENTAL BREAKFAST**
- 9:00 – 9:15 AM      **WELCOMING REMARKS, Jeffrey A. Lieberman, MD, APPA President**  
**Looking to the future of psychiatric medicine and mental health care**  
*Lawrence C. Kolb Professor & Chairman of Psychiatry, Columbia University*  
*Director, New York State Psychiatric Institute*  
*Psychiatrist-in-Chief, New York Presbyterian Hospital-Columbia University*  
*Medical Center*
- 9:15 – 9:30 AM      **PRESENTATION OF HAMILTON AWARD TO Jeffrey A. Lieberman, MD**
- 9:30 – 9:45 AM      **PRESENTATION OF ZUBIN AWARD TO Irving I. Gottesman, PhD,**  
**FRCPsych Hon., FKC Hon.**  
*Senior Fellow, Department of Psychology; Bernstein Professor of Adult*  
*Psychiatry (Ret.); University of Minnesota; Sherrell J. Aston Professor of*  
*Psychology Emeritus, University of Virginia*
- SESSION I    WHAT ARE BIOMARKERS?**  
Chair: Myrna M. Weissman, PhD  
*Diane Goldman Kemper Professor of Epidemiology in Psychiatry, Columbia*  
*University*  
*Chief, Division of Epidemiology*  
*New York State Psychiatric Institute*
- 9:45 – 10:05 AM      **Biomarkers and personalized medicine: Impact on public health**  
Thomas Insel, MD  
*Director, National Institute of Mental Health (NIMH), National Institutes of*  
*Health (NIH)*

- 10:05 – 10:25 AM      **Biomarkers and personalized medicine: Policies, future directions, and current challenges**  
 Nora D. Volkow, MD  
*Director, National Institute of Drug Abuse (NIDA), National Institutes of Health (NIH)*
- 10:25 – 10:35 AM      **General discussion led by Dr. Weissman**
- 10:35 – 10:50 AM      **BREAK**
- 10:50 – 11:15 AM      **Biomarkers and epidemiology in cohort studies**  
 Preben Bo Mortensen, MD  
*Professor Department of Economics and Business  
 National Centre for Register-Based Research, University of Aarhus, Denmark*
- 11:15 – 11:40 AM      **Biomarkers for drug development**  
 Husseini K. Manji, MD, FRCPC  
*Global Head, Neuroscience Therapeutic Area, Janssen Research & Development, LLC*
- 11:40 AM – 12: 40 PM      **Biomarkers in quest of phenotypes: Comment on DSM-5, ICD11, and R-DoC**  
 David J. Kupfer, MD  
*Thomas Detre Professor, Department of Psychiatry; Professor, Departments of Neuroscience and Clinical and Translational Science, University of Pittsburgh School of Medicine*
- Geoffrey M. Reed, PhD  
*Senior Project Officer, Revision of ICD-10 Mental Health and Behavioural Disorders; Department of Mental Health and Substance Abuse, World Health Organization, Geneva Switzerland*
- Bruce N. Cuthbert, PhD  
*Director, Division of Adult Translational Research and Treatment Development, National Institute of Mental Health, National Institutes of Health*
- 12:40 – 12:45 PM      **Discussant Comments** by Dr. Weissman
- 12:45 – 1:00 PM      **General Discussion led by Dr. Weissman**
- 1:00 – 2:15 PM      **LUNCH**

## SESSION II METHODS

Chair: J. Raymond DePaulo, Jr., MD

*Henry Phipps Professor and Chair, Department of Psychiatry; Psychiatrist-In-Chief, Johns Hopkins University*

- 2:15 – 2:40 PM **MRI (sMRI, MRS, fMRI, DTI): Methodologies and biomarkers**  
Ed Bullmore, FMedSci  
*Professor of Psychiatry, Head and Brain Mapping Unit, University of Cambridge*
- 2:40 – 3:05 PM **PET**  
Anissa A. Abi-Dargham, MD  
*Professor of Clinical Psychiatry & Radiology  
Associate Director of the Columbia University PET Center,  
Chief, Division of Translational Imaging, Department of Psychiatry  
Columbia University & New York State Psychiatric Institute*
- 3:05 – 3:30 PM **Genetics**  
Patrick F. Sullivan, MD, FRANZCP  
*Professor and Director, Department of Genetics  
Psychiatric Genomics, University of North Carolina*
- 3:30 – 3:55 PM **BREAK**
- 3:55 – 4:05 PM **Discussant Comments led by Dr. DePaulo**
- 4:05 – 4:25 PM **General Discussion led by Dr. DePaulo**
- 5:30 – 7:00 PM **POSTER SESSION**  
Sponsored by EnVivo Pharmaceuticals
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## FRIDAY, 7 MARCH

- 8:00 – 8:50 AM **Round table discussion: Early career and new investigators led by**  
Linda B. Cottler, PhD, MPH  
*Dean's Professor and Chair of Epidemiology; College of Public Health and  
Health Professions and College of Medicine; Professor of Psychiatry,  
University of Florida*
- John H. Krystal, MD  
*Robert L. McNeil Jr. Professor of Translational Research; Chair,  
Department of Psychiatry, Yale University School of Medicine; Chief of  
Psychiatry, Yale-New Haven Hospital*
- Monica Uddin, PhD  
*Assistant Professor, Psychiatry & Behavioral Neurosciences, Center for  
Molecular Medicine and Genetics, Wayne State University*



8:30 – 9:00 AM	<b>REGISTRATION AND CONTINENTAL BREAKFAST</b>
	<b>SESSION II METHODS CONT.</b> Chair: Robert M.A. Hirschfeld, MD <i>Titus H. Harris Chair, Harry K. Davis Professor; Professor and Chair Department of Psychiatry, University of Texas Medical Branch</i>
9:00 – 9:05 AM	<b>PRESENTATION OF HOCH AWARD TO John H. Krystal, MD</b> <i>Yale University</i>
9:05 – 9:35 AM	<b>Glutamate synaptic dysfunction in schizophrenia: Microcircuits, macrocircuits, and novel therapeutics</b> John H. Krystal, MD <i>Yale University</i>
9:35 – 10:00 AM	<b>Serologically based biomarkers</b> Alan S. Brown, MD, MPH <i>Professor of Psychiatry &amp; Epidemiology; Director, Unit in Birth Cohort Studies; New York State Psychiatric Institute; Department of Psychiatry, Columbia University</i>
10:00 – 10:25 AM	<b>Pluripotent cells emerging technologies</b> Kristen J. Brennand, PhD <i>Assistant Professor of Psychiatry &amp; Neuroscience, Icahn School of Medicine at Mount Sinai; Department of Psychiatry</i>
10:25 – 10:45 AM	<b>BREAK</b>
10:45 – 11:10 AM	<b>Cortical electrophysiology</b> György Buzsáki, MD, PhD <i>Biggs Professor of Neural Sciences, New York University Neuroscience Institute; Department of Physiology &amp; Neuroscience, New York University, Langone Medical Center</i>
11:10 – 11:20 AM	<b>Discussant Comments by Dr. Hirschfeld</b>
11:20 – 11:35 AM	<b>General Discussion led by Dr. Hirschfeld</b>
11:35 AM – 12:30 PM	<b>APPA ANNUAL BUSINESS MEETING (MEMBERS ONLY)</b>
12:30 – 2:00 PM	<b>LUNCH</b>

### SESSION III PROMISING BIOMARKERS

Chair: Mary Jeanne Kreek, MD

*Patrick E. and Beatrice M. Haggerty Professor, Head of the Laboratory of the Biology of Addictive Diseases, The Rockefeller University, Senior Physician, The Rockefeller University Hospital*

2:00 – 2:25 PM

#### **The psychogenics model**

Eric J. Nestler, MD, PhD

*Professor and Chair, Neuroscience; Nash Family Professor of Neuroscience; Director of the Friedman Brain Institute, Icahn School of Medicine at Mount Sinai*

2:25 – 2:50 PM

#### **Towards predicting autism: Pre-symptomatic detection in infancy**

Joseph Piven, MD

*Thomas E. Castleoe Distinguished Professor of Psychiatry, Pediatrics, and Psychology; Carolina Institute for Developmental Disabilities; University of North Carolina*

2:50 – 3:15 PM

#### **Schizophrenia**

Maria Karayiorgou, MD

*Professor of Psychiatry in Genetics & Physiology, Acting Chief of the Division of Medical Genetics; Department of Psychiatry, Columbia University*

3:15 – 3:40 PM

#### **BREAK**

3:40 – 4:05 PM

#### **Biomarkers in Alcoholism: Current status and future directions**

George F. Koob, PhD

*Director, National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institutes of Health (NIH)*

4:05 – 4:15 PM

**Discussant comments by Dr. Kreek**

4:15 – 4:40 PM

**General discussion led by Dr. Kreek**

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### SATURDAY, 8 MARCH

8:00 – 8:45 AM

**REGISTRATION AND CONTINENTAL BREAKFAST**

8:45 – 9:05 AM

**PRESENTATION OF ROBINS/GUZE AWARD TO Carolyn Rodríguez, MD, PhD, Assistant Professor of Clinical Psychiatry, Columbia University**  
**Next-generation treatments for OCD**

9:05 – 9:25 AM

#### **Ethics and using biomarkers**

Robert L. Klitzman, MD

*Director, Masters of Bioethics Program, Columbia University*



**SESSION III PROMISING BIOMARKERS CONT.**

Chair: Shelli Avenevoli, PhD

*Chief, Developmental Trajectories of Mental Disorders Branch, National Institute of Mental Health, National Institutes of Health*

- 9:25 – 9:45 AM      **Optimizing treatment for depression using brain imaging**  
Helen S. Mayberg, MD  
*Professor, Psychiatry, Neurology, and Radiology; Dorothy C. Fuqua Chair in Psychiatric Neuroimaging and Therapeutics, Emory University School of Medicine, Department of Psychiatry*
- 9:45 – 10:05 AM      **Overview and preliminary data from the Establishing Moderators/Mediators for a Biosignature of Antidepressant Response in Clinical Care (EMBARC) multi center study**  
Ramin V. Parsey, MD, PhD  
*Professor and Chair, Department of Psychiatry and Behavioral Science; Professor of Radiology; Director of PET Research, Co-Director of the Neurosciences Institute, Stony Brook University*
- 10:05 – 10:30 AM      **BREAK**
- 10:30 – 10:50 AM      **Biomarkers in Alzheimer’s disease**  
Steven M. Paul, MD  
*Director of the Helen and Robert Appel Alzheimer’s Disease Research Institute; Professor of Neurology (Neuroscience) and Psychiatry, Weill Cornell Medical College*
- 10:50 – 11:10 AM      **Biomarkers in PTSD**  
Charles R. Marmar, MD  
*Lucius N. Littauer Professor and Chair, Department of Psychiatry New York University, Langone Medical Center*
- 11:10 – 11:20 AM      **Discussant comments by Dr. Avenevoli**
- 11:20 AM– 12:00 PM      **General discussion led by Dr. Avenevoli**
- 12:00 PM              **ADJOURN**

## **PRESIDENTS OF APPA**

1910-11 Morton Prince	1960 David Wechsler	1995 Leonard Heston
1912 Adolf Meyer	1961 William Horsely Gantt	1996 David Janowsky
1913 James T. Putnam	1962 Laretta Bender	1997 Ellen Frank
1914-15 Alfred R. Allen	1963 D. Ewen Cameron	1998 Judith Rapoport
1916-17 Adolf Meyer	1964 Jerome D. Frank	1999 Myrna M. Weissman
1918 Smith Ely Jelliffe	1965 Franz J. Kallmann	2000 John E. Helzer
1921 William A. White	1966 Seymour S. Kety	2001 Nina Schooler
1922 John T. MacCurdy	1967 Bernard C. Glueck, Jr.	2002 Jack Gorman
1923-24 L. Pierce Clark	1968 Benjamin Pasamanick	2003 Charles Zorumski
1925 Albert M. Barrett	1969 Joel Elkes	2004 William W. Eaton
1927 Sanger Brown II	1970 Fritz A. Freyhan	2005 Ming Tsuang
1928-29 Ross McC. Chapman	1971 Milton Greenblatt	2006 J. Raymond DePaulo, Jr.
1930-31 William Healy	1972 Alfred Freedman	2007 James J. Hudziak
1932 J. Ramsey Hunt	1973 Henry Brill	2008 Patrick E. Shrout
1933-34 Edward J. Kempf	1974 Max Fink	2009 Darrel A. Regier
1935-37 Nolan D.C. Lewis	1975 Charles Shagass	2010 Linda B. Cottler
1938 Samuel W. Hamilton	1976 Arnold J. Friedhoff	2011 Cathy Spatz Widom
1939 Abraham Myerson	1977 George Winokur	2012 Ezra Susser
1940 Douglas A. Thom	1978 Gerald L. Klerman	2013 Evelevyn J. Bromet
1941-42 Roscoe W. Hall	1979 Jonathan O. Cole	2014 Jeffrey A. Lieberman
1943-44 Frederick L. Wells	1980 Donald F. Klein	2015 Carol North
1945 Bernard Glueck	1981 Paula J. Clayton	
1946 Robert P. Knight	1982 Samuel B. Guze	
1947 Frederick L. Wells	1983 Robert L. Spitzer	
1948 Donald J. MacPherson	1984 Murray Alpert	
1949 Paul Hoch	1985 James E. Barrett	
1950 William B. Terhune	1986 Robert M. Rose	
1951 Lauren H. Smith	1987 David L. Dunner	
1952 Joseph Zubin	1988 Lee N. Robins	
1953 Clarence R. Oberndorf	1989 Bernard J. Carroll	
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1957 Howard S. Liddell	1992 Elliot S. Gershon	
1958 Leslie B. Hohman	1993 C. Robert Cloninger	
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## AWARDS

The APPA has four awards named for individuals who have made important contributions to the science of psychopathology. They are the Joseph Zubin Award, the Paul Hoch Award, the Eli Robins, Samuel Guze Award, and the Samuel W. Hamilton Award. For Hamilton awardees, please see the listing of the Presidents of the APPA on the opposite page. Descriptions of these awards are on our web-site at:

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<b>Year</b>	<b>Hoch Award</b>	<b>Zubin Award</b>	<b>Robins/Guze Award</b>
1990	Arvid Carlsson		
1991	Gerald Russell		
1992	Robert C. Elston	George Winokur	
1993	Lindon Eaves	Albert Ellis	
1994	George Brown	Alexander H. Leighton	
1995	Stanley Prusiner	Paul R. McHugh	
1996	Lester Luborsky	Myrna M. Weissman & Gerald L. Klerman	
1997	Ronald C. Kessler	Heinz Hafner	
1998	Robin M. Murray	Barton Childs	
1999	John Rush	David J. Kupfer and Ellen Frank	
2000	Ming T. Tsuang	Samuel B. Guze	
2001	Gerard Hogarty	Robert Spitzer	Frederick Cassidy
2002	Joseph E. LeDoux	Bruce S. McEwen	Renee Cunningham Williams
2003	Eric R. Kandel	John W. Olney	James Potash
2004	George S. Alexopoulos	Simon Wessely	David D. Rettew
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2006	Paul McHugh	David Botstein	Thomas Schulze
2007	Sir Michael Rutter	John E. Helzer	Todd Lencz
2008	James M. Robins	Bruce P. Dohrenwend	Catherine W. Striley
2009	Norman Sartorius	David Shaffer	Zubin Bhagwager
2010	Wilson M. Compton	Ezra Susser	Valerie Harder
2011	Naomi Breslau	Patricia Cohen	Magdalena Cerdá
2012	Myron Hofer	Zena Stein	Monica Uddin
2013	Maria Kovacs	Gabrielle A. Carlson	James Kirkbride
2014	John H. Krystal	Irving I. Gottesman	Carolyn Rodríguez

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- EnVivo Pharmaceuticals



- Department of Psychiatry, Columbia University Medical Center
- Department of Psychology, New York University

*The American Psychopathological Association gratefully acknowledges the Division of Epidemiology, Services and Prevention Research at the National Institute of Drug Abuse (NIDA) for their generous support to this year's Travel Awardees so they could attend our Annual Meeting. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the National Institute on Drug Abuse (NIDA); nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.*

*The American Psychopathological Association also thanks its member donor for her generous contribution:  
Kathleen Bucholz, Washington University*

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AMERICAN PSYCHOPATHOLOGICAL ASSOCIATION, INC.

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AMERICAN PSYCHOPATHOLOGICAL ASSOCIATION, INC.

1910-2014

## Pursuing Personalized Treatment for Mental Illness

### Poster Session

Thursday, March 6, 2014

AUTHORS	TITLE	LOCATION (Number)
Ballard ED, Voort JV, Luckenbaugh DA, Richards EM, Ionescu DF, Niciu MJ, Brutsche NE, Ameli R, Zarate CA Jr	Suicidal ideation in the context of Ketamine infusion: Relationship with depression and anxiety symptom clusters	9
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AUTHORS	TITLE	LOCATION (Number)
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