

Causality and Psychopathology:

Finding the Determinants of Disorders and Their Cures



Image was provided by Mike Mayhew (<http://www.mayhew.co.nz>)

APPA

*The 98th Annual
American Psychopathological Association Meeting*
March 6-8, 2008

*Crowne Plaza Hotel, Times Square
1605 Broadway (at 49th Street), New York, New York*

Faculty

Garnet L. Anderson, PhD
Fred Hutchinson Cancer Research Center

Naomi Breslau, PhD
Michigan State University

E. Jane Costello, PhD
Duke University

Vilma Gabbay, MD,
NYU Child Study Center

Miguel A. Hernán, MD, DrPh
Harvard University

Kenneth S. Kendler, MD
Virginia Commonwealth University

Donald F. Klein, MD
Columbia University & New York University

Robert F. Krueger, PhD
University of Minnesota

Bruce Link, PhD
Columbia University

Susan A. Murphy, PhD
University of Michigan

Bengt Muthén, PhD
UCLA

Rosalind Neuman, PhD
Washington University School of Medicine

Judea Pearl, PhD
UCLA

James M. Robins, MD
Harvard University

Sharon Schwartz, PhD
Columbia University

David Shaffer, MD
Columbia University

Patrick E. Shrout, PhD
New York University

Andrew Skodol, MD
Institute for Mental Health Research

George Davey Smith, MD, DSc
University of Bristol

Matthew W. State, MD, PhD
Yale University

Ezra Susser, MD, DrPH
Columbia University

2007-2008 APPA Council

Patrick E. Shrout, PhD
New York University
President

Darrel A. Regier, MD, MPH
American Psychiatric Association
President-elect

Linda B. Cottler, PhD, MPH
Washington University School of Medicine
Vice-President/Treasurer/Local Arrangements Chair

Ezra Susser, MD, DrPH
Columbia University/NYSPI
Secretary

Michael Lyons, PhD
Boston University
Membership Chair

John E. Helzer, MD
University of Vermont
Archivist

James J. Hudziak, MD
Past President
University of Vermont
(March 2007-March 2008)

Lauren B. Alloy, PhD
Temple University
Councilor (March 2006-March 2010)

John N. Constantino, MD
Washington University School of Medicine
Councilor (March 2005-March 2009)

Charles F. Zorumski, MD
Washington University School of Medicine
Councilor (March 2006-March 2010)

Gary Heiman, PhD, MSc
Rutgers University
Coordinator

Catina Callahan O'Leary, PhD, MSW
Washington University School of Medicine
Assistant to Treasurer/Student Representative

Presidents of APPA

1910-2010

1910-11 Morton Prince

1912 Adolf Meyer

1913 James T. Putnam

1914-15 Alfred R. Allen

1916-17 Adolf Meyer

1918 Smith Ely Jelliffe

1921 William A. White

1922 John T. MacCurdy

1923-24 L. Pierce Clark

1925 Albert M. Barrett

1927 Sanger Brown II

1928-29 Ross McC. Chapman

1930-31 William Healy

1932 J. Ramsey Hunt

1933-34 Edward J. Kempf

1935-37 Nolan D.C. Lewis

1938 Samuel W. Hamilton

1939 Abraham Myerson

1940 Douglas A. Thom

1941-42 Roscoe W. Hall

1943-44 Frederick L. Wells

1945 Bernard Glueck

1946 Robert P. Knight

1947 Frederick L. Wells

1948 Donald J. MacPherson

1949 Paul Hoch

1950 William B. Terhune

1951 Lauren H. Smith

1952 Joseph Zubin

1953 Clarence R. Oberndorf

1954-55 David McK. Rioch

1956 Oaskar Diethelm

1957 Howard S. Liddell

1958 Leslie B. Hohman

1959 Harry C. Solomon

1960 David Wechsler

1961 William Horsely Gantt

1962 Loretta Bender

1963 D. Ewen Cameron

1964 Jerome D. Frank

1965 Franz J. Kallmann

1966 Seymour S. Kety

1967 Bernard C. Glueck, Jr.

1968 Benjamin Pasamanick

1969 Joel Elkes

1970 Fritz A. Freyhan

1971 Milton Greenblatt

1972 Alfred Freedman

1973 Henry Brill

1974 Max Fink

1975 Charles Shagass

1976 Arnold J. Friedhoff

1977 George Winokur

1978 Gerald L. Klerman

1979 Jonathan O. Cole

1980 Donald F. Klein

1981 Paula J. Clayton

1982 Samuel B. Guze

1983 Robert L. Spitzer

1984 Murray Alpert

1985 James E. Barrett

1986 Robert M. Rose

1987 David L. Dunner

1988 Lee N. Robins

1989 Bernard J. Carroll

1990 Nancy C. Andreasen

1991 Katherine A. Halmi

1992 Elliot S. Gershon

1993 C. Robert Cloninger

1994 Bruce Dohrenwend

1995 Leonard Heston

1996 David Janowsky

1997 Ellen Frank

1998 Judith Rapoport

1999 Myrna M. Weissman

2000 John E. Helzer

2001 Nina Schooler

2002 Jack Gorman

2003 Charles Zorumski

2004 William W. Eaton

2005 Ming Tsuang

2006 J. Raymond DePaulo, Jr.

2007 James J. Hudziak

2008 Patrick E. Shrout

2009 Darrel A. Regier

2010 Linda B. Cottler

Scientific Program

Causality and Psychopathology: Finding the Determinants of Disorders and their Cures

Scientifically informed prevention and treatment of psychopathology requires a sophisticated understanding of its causes and the processes by which those causes affect individuals. In the last several decades, progress has been made by documenting various associations between risk factors and mental disorders, and by ground-breaking discoveries of pharmacologic agents that alleviate symptoms and increase functioning.

As psychopathology researchers move beyond the findings of the last decade to multiple effects of interventions as well as pathology process, they often rely on clinical trials, prevention trials, and natural experiments to make causal inferences. These designs provide inferential strength, but they do not necessarily avoid ambiguous findings and controversial interpretations. Issues of compliance, missing data, contamination of treatments, and confounding can undermine clear causal inference.

In this meeting, we review new approaches to causal analysis that are being discussed in the statistical and epidemiological literatures to address the challenge of interpreting experimental and observational findings. We examine how these approaches can inform studies of psychopharmacologic effects, of genetic effects, and of social and environmental effects on psychopathology. We also examine novel ways to design epidemiological studies and clinical trials to provide efficient and useful information. We conclude the meeting with a consideration of how causal evidence can help refine the definition of diagnostic categories.

Thursday, March 6, 2008

- 8:30 – 9:00 **Registration**
- 9:00 – 9:10 **Welcome and Introduction**
Patrick E. Shrout, PhD
New York University
- Session 1**
- Rethinking Causal Claims:
What We Can Learn from the
Women's Health Initiative**
Chair: Rosalind Neuman, PhD
Washington University School of Medicine
- 9:10 – 9:40 **Lessons from The Women's Health Initiative**
Garnet L. Anderson, PhD
Fred Hutchinson Cancer Research Center
- 9:40 – 9:50 **Discussion**
- 9:50 – 10:35 **The Mathematics of Causal Relations**
Judea Pearl, PhD
UCLA
- 10:35 – 10:45 **Discussion**
- 10:45 – 11:05 Coffee Break
- 11:05 – 11:35 **Large simple trials:
The no man's land between randomized
clinical trials and observational cohorts**
Miguel A. Hernán, MD, DrPh
Harvard University
- 11:35 – 11:45 **Discussion**
- 11:45 – 11:55 **Presentation of Hoch Award to:
James M. Robins, MD**
- 11:55 – 12:45 **Causal Effects of Socio-economic Status
on Mental Health: Adjusting for Undiagnosed
Illness in Longitudinal Studies**
James M. Robins, MD
Harvard University
- 12:25 – 12:45 **Discussant and General Discussion**
- 12:45 – 2:30 Lunch
- Session 2**
- Genetically Informed Approaches
to Causes of Psychopathology**
Chair: Ezra Susser, MD, DrPH
Columbia University
- 2:30 – 3:00 **Causal Thinking in Psychiatry:
A Manipulationist Perspective**
Kenneth S. Kendler, MD
Virginia Commonwealth University
- 3:00 – 3:10 **Discussion**
- 3:10 – 3:40 **Promise of Mendelian Randomization**
George Davey Smith, MD, DSc
University of Bristol

- 3:40 – 3:50 **Discussion**
- 3:50 – 4:10 Coffee Break
- 4:10 – 4:40 **Rare variant genetics and psychiatric disorders:
Trying to use exceptions to find the rule**
Matthew W. State, MD, PhD
Yale University
- 4:40 – 4:50 **Discussion**
- 4:50 – 5:10 **Discussant and General Discussion**
- 5:40 – 7:30 **Poster reception**

Friday, March 7, 2008

Session 3

Multiple Effects of Pharmacologic Treatments: Example of Adolescent Depression

Chair: Vilma Gabbay, MD
NYU Child Study Center

- 9:00 – 9:10 **Presentation and Acceptance of
Robins-Guze Award**
Catherine W. Striley, PhD, MSW, MPE
Washington University School of Medicine
- 9:10 – 9:40 **Suicide and SSRI treatment**
David Shaffer, MD
Columbia University
- 9:40 – 9:50 **Discussion**
- 9:50 – 10:20 **New designs for clinical trials**
Susan A. Murphy, PhD
University of Michigan
- 10:20 – 10:30 **Discussion**
- 10:30 – 10:50 Coffee Break
- 10:50 – 11:20 **What would have been is not what would be:
Counterfactuals past and future**
Sharon Schwartz, PhD
Columbia University
- 11:20 – 11:30 **Discussion**
- 11:30 – 11:50 **Discussant and General Discussion**
- 11:50 – 12:20 **APPA Business Meeting (members only)**
- 12:20 – 2:10 Lunch

Session 4

Social and Behavioral Causes of Psychopathology

Chair: Bruce Link, PhD
Columbia University

- 2:10 – 2:20 **Presentation of Zubin Award to:
Bruce P. Dohrenwend, PhD**
- 2:20 – 2:50 **Causes of PTSD**
Naomi Breslau, PhD
Michigan State University
- 2:50 – 3:00 **Discussion**
- 3:00 – 3:30 **Causal thinking in developmental disorders**
E. Jane Costello, PhD
Duke University
- 3:30 – 3:40 **Discussion**
- 3:40 – 4:00 Coffee Break
- 4:00 – 4:30 **General approaches to analysis of course**
Bengt Muthén, PhD
UCLA
- 4:30 – 4:40 **Discussion**
- 4:40 – 5:00 **Discussant and General Discussion**

Saturday, March 8, 2008

Session 5

DSM-V: Considerations of Etiology and Cures

Chair: Andrew Skodol, MD
Institute for Mental Health Research

- 9:00 – 9:30 **Causal Thinking for Objective
Psychiatric Diagnostic Criteria**
Donald F. Klein, MD
Columbia University & New York University
- 9:30 – 9:40 **Discussion**
- 9:40 – 10:10 **Dimensions, categories and causal thinking**
Robert F. Krueger, PhD
University of Minnesota
- 10:10 – 10:20 **Discussion**
- 10:20 – 10:40 Coffee Break
- 10:40 – 10:50 **Presentation of Hamilton Award to:
Patrick E. Shrout, PhD**
- 10:50 – 11:20 **Integrating causal analysis
into psychopathology research**
Patrick E. Shrout, PhD
New York University
- 11:20 – 11:30 **Discussion**
- 11:30 – 11:50 **Discussant and General Discussion**
- 11:50 Adjourn

Awards

The APPA has three awards named for individuals who have made important contributions to the science of psychopathology. They are the Joseph Zubin Award, the Paul Hoch Award and the Eli Robins, Samuel Guze Award. Descriptions of these awards are on our website at: <http://www.appassn.org/awards.htm>

Previous award winners

Year	Hoch Award	Zubin Award	Robins/Guze Award
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 and 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 C. Rettew
2005	Jane M. Murphy	Nikki Erlenmeyer-Kimling	Karestan Koenen
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

This lists the Hoch awardees since 1990, and the Zubin, Robins/Guze awardees since this award was established

Funding for this conference was made possible (in part) by grant 1R13MH082513-0 from the National Institute of Mental Health. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.