

CURRICULUM VITAE: STEPHAN HECKERS, MD, MSc

Personal Data

Office Address: Vanderbilt Psychiatric Hospital
1601 23rd Avenue South, Suite 3060
Nashville, TN 37212
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Date of Birth: October 12, 1960

Place of Birth: Waldniel, Germany

Home Address: 5895 Fredericksburg Drive
Nashville, TN 37215

Marital Status: Married, 2 children

Education

1981 Philosophical Institute, University of Munich, Germany

1981 - 1982 Philosophical Institute, University of Cologne, Germany

1982 - 1988 Medical School, University of Cologne, Germany

1988 MD degree ('magna cum laude') with the thesis 'Surgical therapy of exocrine pancreatic tumors', University of Bonn, Germany

2000 Harvard University, Master of Medical Sciences (MSc)

Postdoctoral Training:

1988 - 1990 Research Fellow, Morphological Brain Research Laboratory,
Department of Psychiatry, University of Würzburg, Germany

1990 - 1993 Research Fellow, Department of Neurology, Beth Israel Hospital,
Harvard Medical School, Boston

1993 - 1994 Intern in Medicine, Massachusetts General Hospital, Harvard Medical School

1994 - 1997 Resident in Psychiatry, Massachusetts General Hospital, Harvard Medical School

1996 - 1997 Chief Resident, Avery D. Weisman Psychiatry Consultation Service,
Massachusetts General Hospital, Harvard Medical School

1997 - 1998 Dupont-Warren Fellow, Department of Psychiatry, Harvard University

1998 - 2000 Research Fellow, Clinical Investigator Training Program,
Harvard-MIT Division of Health Sciences and Technology

Licensure and Certification:

1988 License to practice medicine in Germany

1992 ECFMG part 1, USMLE part 2, FLEX part 1 and 2

1995 Massachusetts Medical License

1998 American Board of Psychiatry and Neurology

2006 Tennessee Medical License

2008, 2018 American Board of Psychiatry and Neurology, Recertification

Academic Appointments

1988 - 1990 Research Fellow in Psychiatry, University of Würzburg, Germany

1990 - 1993 Research Fellow in Neurology, Harvard Medical School, Boston

1993 - 1997 Clinical Fellow in Psychiatry, Harvard Medical School

1997 - 1999 Instructor in Psychiatry, Harvard Medical School

1999 - 2004	Assistant Professor of Psychiatry, Harvard Medical School
2004 - 2005	Associate Professor of Psychiatry, Harvard Medical School
2006 - 2015	Chair, Department of Psychiatry, Vanderbilt University School of Medicine
2016 -	Chair, Department of Psychiatry and Behavioral Sciences, Vanderbilt University School of Medicine
2006 - 2015	Professor of Psychiatry, Vanderbilt University School of Medicine, Nashville
2016 -	Professor of Psychiatry and Behavioral Sciences, Vanderbilt University School of Medicine
2006 -	Professor of Radiology, Vanderbilt University School of Medicine
2010 -	Professor of Psychology, College of Arts and Sciences, Vanderbilt University
2006 - 2010	James G. Blakemore Chair in Psychiatry, Vanderbilt University School of Medicine
2010 -	William P. and Henry B. Test Chair in Schizophrenia Research, Vanderbilt University
2012 - 2014	Training Director, General Psychiatry Residency, Vanderbilt University

Hospital Appointments

1988 - 1990	Research Fellow in Psychiatry, Department of Psychiatry, University of Würzburg, Germany
1990 - 1993	Research Fellow in Neurology, Beth Israel Hospital, Boston
1993 - 1997	Clinical Fellow in Psychiatry, Massachusetts General Hospital, Boston
1997 - 2000	Clinical Associate in Psychiatry, Massachusetts General Hospital
2000 - 2003	Assistant Neuroanatomist, McLean Hospital, Belmont
2003 - 2005	Associate Psychiatrist, McLean Hospital
2006 -	Psychiatrist, Vanderbilt Psychiatric Hospital, Nashville
2010 -	Psychiatrist-in-Chief, Vanderbilt Psychiatric Hospital

Professional Organizations

1990 - 2017	Society for Neuroscience
1991 - 2000	Boston Society for Neurology and Psychiatry
1995 -	American Psychiatric Association
1996 - 2000	American Neuropsychiatric Association
1999 -	Society of Biological Psychiatry
2002 - 2007	Deutsche Gesellschaft für Biologische Psychiatrie
2006 - 2011	Member, American College of Neuropsychopharmacology
2012 -	Fellow, American College of Neuropsychopharmacology
2006 - 2015	Association for Academic Psychiatry
2006 -	American Association of Chairs of Departments of Psychiatry
2007 -	Schizophrenia International Research Society
2008 - 2016	The American College of Psychiatrists
2009 -	Association for the Advancement of Philosophy & Psychiatry
2016 -	Fellow, American Psychopathological Association

Professional Activities

Hospital and Health Care Organization Service Responsibilities:

1996 - 1997	Chief Resident, Avery D. Weisman Psychiatry Consultation Service, Massachusetts General Hospital
1999 - 2003	Assistant Director of Psychiatric Neuroimaging Research, Massachusetts General Hospital
2000 - 2003	Associate Director, Harvard Brain Tissue Resource Center
2003 - 2005	Director, Schizophrenia and Bipolar Disorder Program, McLean Hospital
2006 -	Clinical Enterprise Group, Vanderbilt Medical Center

- 2006 - Clinical Enterprise Executive Committee, Vanderbilt Medical Center
- 2006 - Vanderbilt Medical Group Executive Committee, Vanderbilt Medical Center
- 2006 - Chair, Clinical Services Governance Committee, Department of Psychiatry, Vanderbilt Medical Center
- 2006 - Medical Center Medical Board, Vanderbilt Medical Center

Major Committee Assignments:

- 1996 - 1997 Chief Residents Council, Massachusetts General Hospital
- 1996 - 1997 Executive Committee on Teaching and Education (ECOTE), Massachusetts General Hospital
- 1999 - 2003 Partners Psychiatry Research Committee
- 2000 - 2005 MGH/McLean Residency Curriculum Leadership Group
- 2001 - 2003 MIND Institute (Boston Site)
- 2003 - 2005 Patient Care Assessment Quality Improvement Committee, McLean Hospital
- 2005 Award Committee, World Congress of Biological Psychiatry, Vienna, Austria
- 2005 - NARSAD, Scientific Council
- 2005 - 2008 Program Planning Committee, Society of Biological Psychiatry
- 2006 - 2008 Faculty Appointments and Promotions Committee, Vanderbilt University School of Medicine
- 2007 - 2009 ACNP Public Information Committee
- 2007 - 2010 NAMI Tennessee, Advisory Board
- 2007 - 2010 NAMI Nashville, Advisory Board
- 2007 - 2010 Vanderbilt Medical Student Promotions Committee Class of 2010
- 2008 - 2010 Vanderbilt Institute for Clinical and Translational Research, Internal Advisory Board
- 2008 Search Committee for Dean, Vanderbilt University School of Medicine
- 2008 - Veterans Affairs Tennessee Valley Health Care System Academic Partnership Council
- 2008 - 2013 DSM-5 Psychosis Work Group, American Psychiatric Association
- 2008 - 2011 Medical Center Appointments and Tenure Review Committee, Vanderbilt University
- 2008 - 2011 Vanderbilt Medical Group Budget and Finance Committee
- 2009 Co-Chair, ACNP Program Committee
- 2009 - 2012 International Congress on Schizophrenia Research, Advisory Board
- 2009 - 2010 International Congress on Schizophrenia Research, Program Committee
- 2009 - 2010 Faculty and Physician Wellness Committee, Vanderbilt Medical Center
- 2009 - 2010 Chair, Society of Biological Psychiatry Program Committee
- 2009 - 2012 Faculty Advisor, NAMI Vanderbilt
- 2008 Search Committee for Chair of Medicine, Vanderbilt University School of Medicine
- 2010 Chair, ACNP Program Committee
- 2010 - 2011 Chair, Vanderbilt Medical Group Budget and Finance Committee
- 2010 - 2011 Chair, Medical Center Appointments and Tenure Review Committee, Vanderbilt University
- 2010 Search Committee for Michael Burry Chair, Vanderbilt University School of Medicine
- 2011 - 2012 Search Committee for Chair of Radiology, Vanderbilt University School of Medicine
- 2011 - 2012 Chair, Vanderbilt Medical Group Executive Committee
- 2011 - Member, McLean Hospital Scientific Advisory Board
- 2012 - 2014 Vanderbilt Prize in Biomedical Science Internal Review Committee
- 2012 - 2013 Neuroscience Visions Council, Vanderbilt University
- 2012 - 2013 Co-Chair, ACNP Publications Committee
- 2013 - 2014 Chair, ACNP Publications Committee
- 2013 - 2014 Chair, Executive Committee, International Congress on Schizophrenia Research
- 2014 - 2016 Board Member, Schizophrenia International Research Society
- 2015 - 2016 Executive Committee of the Executive Faculty, Vanderbilt University School of Medicine

2016 - 2017	Chair, Search Committee for Neurology Chair, Vanderbilt University School of Medicine
2017 - 2019	Member, ACNP Audit Committee
2018 - 2020	Chair, ACNP Audit Committee
2019 -	Member, ACNP Plan S/Open Access Publishing Task Force
2019 - 2020	Section Editor, Schizophrenia Spectrum and Related Psychotic Disorders, DSM-5-TR, American Psychiatric Association

Editorial Boards:

2001 - 2015	Editorial Board Member, Revista de Psiquiatria Clinica
2001	Guest Editor: Neuroscience Newsletter (MGH, Department of Psychiatry)
2001	Guest Editor: Hippocampus, Special Issue: Schizophrenia (Vol 11, 2001)
2003 - 2006	Advisory Board Member, Journal of Neural Transmission
2003 - 2011	Associate Editor, Archives of General Psychiatry
2005 - 2009	Scientific Advisory Board, Schizophrenia Research Forum
2008 - 2015	Editorial Board Member, European Archives of Psychiatry and Clinical Neuroscience
2011 -	Editorial Board Member, Schizophrenia Research
2012 - 2014	Editorial Board Member, Archives of General Psychiatry / JAMA Psychiatry
2012 -	Editorial Board Member, Neuroimage: Clinical
2013 -	Editorial Board Member, Schizophrenia Bulletin
2015 - 2017	Editorial Board Member, Die Psychiatrie
2015 - 2017	Editor in Chief, JAMA Psychiatry

Review Assignments:

1998	NIMH, Clinical Research Planning Panel
2000	Grant Reviewer: Medical Research Council, London, UK
2004	NIMH Special Emphasis Panel, Non-standing member, Conte Centers for the Study of Schizophrenia, ZMH1 BRB P053/16/2004
2011	NIMH Special Emphasis Panel, ZMH1-ERB-C (02), Non-standing member, 11/21/2011
2012	NIMH, Special Emphasis Panel, ZMH1 ERB-C (02), Non-standing member
2013	NIMH, Board of Scientific Counselors, MHBSC, Non-standing member, 2/13/2013 NIMH Special Emphasis Panel, ZMH1-ERB-D (08), Non-standing member, 7/31/2013 NIMH Special Emphasis Panel, ZMH1-ERB-L (01), Non-standing member, 11/18/2013
2014	NIMH Special Emphasis Panel, ZMH1-ERB-D (06), Non-standing member, 7/25/2014
2017	NIMH Special Emphasis Panel, ZMH1-ERB-B (04), Non-standing member, 2/3/2017 NIMH Special Emphasis Panel, ZMH1-ERB-B (05), Non-standing member, 2/3/2017
2013	NIMH, Board of Scientific Counselors, MHBSC, Non-standing member, 2/13/2013
2018	NIMH, Board of Scientific Counselors, MHBSC, Non-standing member, 9/24/2018
2020	NIMH Special Emphasis Panel, ZMH1 ERB-S (06), Non-standing member, 5/27/2020

Ad Hoc Reviewer: Acta Neuropathologica, Animal Cognition, Archives of General Psychiatry, American Journal of Psychiatry, Biological Psychiatry, Brain Imaging and Behavior, Brazilian Journal of Psychiatry, Cerebral Cortex, Cognition, Comprehensive Psychiatry, European Journal of Neuroscience, European Journal of Pharmacology, Experimental Brain Research, Harvard Review of Psychiatry, International Journal of Neuropsychopharmacology, JAMA, JAMA Psychiatry, Journal of Abnormal Psychology, Journal of Child Psychology and Psychiatry, Journal of Clinical Psychiatry, Journal of Comparative Neurology, Journal of Neuroscience, Journal of Psychiatric Research, Molecular Psychiatry, Nature, Nature Neuroscience, Neuroimage, Neuroimage: Clinical, Neuron, Neuropsychiatry Neuropsychology and Behavioral Neurology, Neuropsychobiology, Neuropsychology, Neuropsychopharmacology, Neuroscience, Neuroscience & Biobehavioral Reviews, PNAS, Psychiatry Research:

Neuroimaging, Psychopathology, Schizophrenia Bulletin, Schizophrenia Research, The International Journal of Neuropsychopharmacology, Trends in Neuroscience, World Journal of Biological Psychiatry

Awards and Honors

1982 - 1988	Honorary Scholar of the Education Foundation of Germany (Studienstiftung des Deutschen Volkes)
1988 - 1990	Deutsche Forschungsgemeinschaft (DFG): Grant to study neuroanatomical changes in brains of schizophrenic patients
1990 - 1992	Deutsche Forschungsgemeinschaft (DFG): Grant to study abroad (Dr. M.-M. Mesulam)
1995	NIMH Outstanding Resident Award
1997	Thomas P. Hackett Award (MGH Department of Psychiatry)
1997 - 1998	Dupont-Warren Fellowship (Harvard Department of Psychiatry)
1998	APA Research Colloquium for Young Investigators Award
1998	Stanley Cobb Award
1998	Harry C. and Maida Solomon Award (Harvard Department of Psychiatry)
2000	Outstanding Teacher Award, MGH/McLean Adult Psychiatry Residency Class 2000
2001	International Congress on Schizophrenia Research Young Investigator Award
2002	Klerman Award Honorable Mention, National Alliance for Research on Schizophrenia and Depression (NARSAD)
2003	George B. Murray Lectureship
2004	Dr. Paul Janssen Schizophrenia Research Award (CINP)
2005	Nominee, Cynthia N. Kettle Teaching Award, Medical Education Council of the Departments of Psychiatry at Harvard Medical School
2005	A.E. Bennett Award (Society of Biological Psychiatry)
2006	Philip Isenberg Teaching Award (Teacher of the Year), MGH/McLean Adult Psychiatry Residency Class 2006
2014	NAMI Davidson County, 2014 Humanitarian Award
2018	NAMI Exemplary Psychiatrist Award

Teaching Activities

Undergraduate Courses:

Harvard University

1995	Tutorial: "Exploring the mind through biological models and human disease" Lecturer, 1 hour/year, 10 undergraduate students
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Vanderbilt University

2006 - 2010	Psychology 235: Schizophrenia, Lecturer, 1 hour/year, 60 students
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Medical School Courses:

University of Würzburg Medical School

1988 - 1990	Introduction to Biological Psychiatry Lecturer and tutor, 20 medical students, 10 hours/year
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Harvard Medical School

1991 - 1992	HST 130: Introduction to Neurobiology Lecturer and tutor, 20-60 medical students
1994	HMS: Human Nervous System and Behavior Lecturer, 1 hour/year, 150 medical students
1997	HMS: Introduction to Psychiatry - Mental status exam Lecturer, 1 hour/year, 20 medical students

1999 HST 350: Clinical Pharmacology and Therapeutics
Lecturer, 1 hour/year, 20 medical students

2000 HMS: Human Nervous System and Behavior
Lecturer, 1 hour/year, 150 medical students

2004 HMS MJ700: Psychopathology and Introduction to Clinical Psychiatry
Lecturer, 3 hours/year, 150 medical students

IPOKRATES

2000 Psychiatrieseminar, BKH Gabersee, Germany
Bedside-Teaching of Psychiatry for German Medical Students
1week, 8 hours/day, 20 medical students

Vanderbilt Medical School

2006 - 2008 Psychiatry, 2nd year medical school course
Course director and lecturer, 110 students, 45 hours/year

2009 - 2012 Brain & Behavior, 2nd year medical school course
Course director and lecturer, 110 students, 40 hours/year

2013 - 2016 Brain Behavior & Movement, 2nd year medical school course
Lecturer, 90 students, 5 hours/year

2016 - Brain Behavior & Movement, 1st year medical school course
Lecturer, 90 students, 5 hours/year

Graduate Courses:

Harvard Medical School

1996 - 2000 PGY IV Neuroscience Seminar
Course Director; organizer and lecturer, 11-16 psychiatry residents,
12 hours/year

1996 PGY III Neuroscience Seminar
Lecturer, 11 psychiatry residents, 2 hours/year

1997 PGY III Psychiatry Consultation Seminar
Lecturer, 10 psychiatry residents, 2 hours/year

Vanderbilt Medical School

2006 PGY II/III Psychopathology – Clinical Application Seminar
Course director; organizer and lecturer, 16 psychiatry residents, 8 hours/year

2007 PGY II/III Psychopathology - Mood Disorders Seminar
Course director; organizer and lecturer, 16 psychiatry residents, 8 hours/year

2007 PGY II/III Psychopathology - Schizophrenia Seminar
Course director; organizer and lecturer, 16 psychiatry residents, 8 hours/year

2012 - PGY i/II/III Psychopathology – Psychotic Disorders Seminar
Organizer and lecturer, 27 psychiatry residents, 8 hours/year

Vanderbilt University

2007 - Cellular and Molecular Neuroscience, NURO 345
Lecturer, 20 students, 2 hours/year

2008 - Molecular Basis of Neural Disease, NURO 366
Lecturer, 6 students, 2 hours/year

Continuing Medical Education Courses:

Harvard Medical School, Continuing Medical Education

1991 - 2000 Neurobiology of Behavior: Is there a neuroanatomy of schizophrenia?;
Lecturer, 20 hours of preparation

1997 - 2005	Psychiatry Board Review Course: Basic Neuropharmacology: Transmitters and Receptors; Lecturer, 30 hours of preparation
1997 - 2005	Child Psychopharmacology Course: Basic Neuropharmacology: Transmitters and Receptors; Lecturer, 20 hours of preparation
1998 - 2005	Psychopharmacology Course: The neural basis of psychosis; Lecturer, 20 hours of preparation
2000 - 2002	Psychiatric Neuroscience Course; Course Co-Director, Major role in inviting speakers, organizing schedule, preparing syllabus
2000 - 2006	Psychiatric Neuroscience Course: 1) Cells and circuits; Lecturer, 20 hours of preparation (every other year); 2) Schizophrenia; Lecturer, 20 hours of preparation (every other year)

Clinical Teaching:

1997 - 2000	Supervising Attending, Psychiatry Consultation Service, Massachusetts General Hospital (1. Clinical practice: Psychiatric consultation service in hospital setting; 2. Patient load: Approximately 10 cases per week; 3. Clinical contributions: Providing supervision for PGY-3 psychiatry residents, evaluating patients, writing attending consultation notes)
1998	Staff Psychiatrist, Behavioral Neurology Clinic, Department of Neurology, Massachusetts General Hospital (1. Clinical practice: Outpatient clinic, group practice. 2. Patient load: Approximately 5 cases per week. 3. Clinical contributions: Psychiatric assessments in patients with primarily neurological disorders).
1998 - 2000	Psychiatrist, Psychotic Disorders Unit, Massachusetts General Hospital (1. Clinical practice: Outpatient clinic, managed care organization, 2. Patient load: Approximately 5 cases per week. 3. Clinical contributions: Psychiatric assessments of outpatients)
2003 - 2005	Director, Schizophrenia and Bipolar Disorder Program, McLean Hospital (1. Clinical practice: Two psychiatric inpatient units and outpatient program for patients with psychotic disorders. 2. Patient load: 50 inpatient beds, more than 1000 admissions per year. 3. Clinical contributions: a) Restructuring of one inpatient unit to provide optimal medical care and decrease length of stay (reduced from 14 to 9 days within the first year). b) Supervision of 2 attending and 4 resident physicians. c) Design and delivery of clinically-oriented seminar series and case conferences for medical students and psychiatry residents)
2006 -	Supervising Attending, Vanderbilt Psychiatric Hospital (Supervision of 1 adult psychiatry resident, 1-5 hours per week)
2014 - 2016	Supervising Attending, Vanderbilt Psychotic Disorders Fellowship (Supervision of 1 fellow, 1-5 hours per week)

Trainees / Advisees:

Examiner for PhD Thesis Committee:

2002	David Volk	University of Pittsburgh, Department of Neuroscience
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Predoctoral Students

2002 - 2006	Martin Zalesak, MS	MSTP student, Harvard/MIT
2007 - 2008	Elizabeth Zellner	Medical student (Emphasis), Vanderbilt University
2008 - 2009	Jae Yoon Park	Medical student (Emphasis), Vanderbilt University
2012 - 2015	Pratik Talati	MSTP student, Vanderbilt University
2017 - 2018	Amalie Chen	Medical student (Research Immersion), Vanderbilt University
2018 - 2019	David Suh	Medical student (Research Immersion), Vanderbilt University
2018 -	Maxwell Roeske	MSTP student, Vanderbilt University

Postdoctoral Fellows

2000 - 2004	Anthony Weiss, MD MSc	Instructor in Psychiatry, MGH
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2001 - 2004	Laura Kunkel, MD	Instructor in Psychiatry, MGH
2002 - 2005	Daphne Holt, MD PhD	Instructor in Psychiatry, MGH
2003 - 2005	Dost Ongur, MD PhD	Chief Resident; Research Fellow, McLean Hospital
2003 - 2005	Tom Cullen, MD PhD	Postdoctoral Fellow, McLean Hospital
2003 - 2005	Kang Sim, MD	Postdoctoral Fellow, McLean Hospital
2004 - 2005	Daniel Wolf, MD PhD	Chief Resident; McLean Hospital
2005 - 2006	Birgit Abler, MD	Postdoctoral Fellow, McLean Hospital
2007 - 2008	Paul Gresch, PhD	Research Instructor, Vanderbilt University
2007 - 2009	Cara Pendergrass, PhD	Assistant Professor of Psychiatry, Vanderbilt University
2007 - 2009	Neil Woodward, PhD	Postdoctoral Fellow, Vanderbilt University
2007 - 2009	Yanghyun Lee, MD	Visiting Scholar, Vanderbilt University
2009 - 2011	Samet Kose, MD PhD	Research Assistant Professor, Vanderbilt University
2009 - 2012	Lisa Williams, PhD	Postdoctoral Fellow, Vanderbilt University
2013 - 2015	Maureen McHugo, PhD	Postdoctoral Fellow, Vanderbilt University
2014 - 2015	Nara Granja-Ingram, MD PhD	Psychotic Disorders Fellow, Vanderbilt University
2015 - 2016	Max Schiff, MD PhD	Psychotic Disorders Fellow, Vanderbilt University
2015 - 2020	Suzanne Avery, PhD	Postdoctoral Fellow, Vanderbilt University
2019 - 2020	Derek Dean, PhD	Postdoctoral Fellow, Vanderbilt University

Endowed Lectures

2006	Zucker Hillside Hospital, Department of Psychiatry, Glen Oaks, New York; Dr. Lewis L. Robbins Memorial Lecture: Hippocampal dysfunction in psychiatric disorder
2015	Samuel B. Guze Lecture, Washington University, Department of Psychiatry, St. Louis, Missouri: Hippocampal dysfunction in psychotic disorders
2016	Nasrallah Endowed Schizophrenia Lecture, University of Cincinnati, Cincinnati, OH: Hippocampal dysfunction in psychotic disorders
2017	Harry Stack Sullivan Award Lecture, Sheppard Pratt Hospital, Baltimore, MD: Catatonia: Are we ready to move?
2017	Mysell Lecture, Harvard Medical School, Department of Psychiatry, Boston, MA: Hippocampal dysfunction in psychotic disorders
2017	Frank P. Soldo, III Endowed Grand Rounds Lecture, Massachusetts General Hospital, Department of Psychiatry, Boston, MA: Catatonia: Are we ready to move?
2022	Shirley Covington Distinguished Lecture in Schizophrenia, The University of Tennessee Health Science Center, Department of Psychiatry, Memphis, TN: What is psychosis?

Invited Lectures

1996	Yale University, Department of Psychiatry: Role of cholinergic neurons in normal and abnormal brain function
1997	Brown University, Department of Biology: Schizophrenia
1998	Salem Hospital, Department of Psychiatry: The hallucinating brain
1998	Wellesley College, Department of Biology: Schizophrenia
1998	ACNP, Las Croabas, Puerto Rico: Impaired recruitment of the hippocampus during conscious recollection in schizophrenia
1999	Yale University, Department of Neuroscience: Impaired recruitment of the hippocampus during conscious recollection in schizophrenia
1999	University of Pittsburgh, Department of Psychiatry: The hippocampus and schizophrenia
1999	University of Miami School of Medicine, <i>Masters of Psychiatry, Psychopharmacology Update:</i> Neuropharmacology for Clinicians

- 1999 University of North Carolina, Chapel Hill, Department of Psychiatry: Impaired recruitment of the hippocampus during conscious recollection in schizophrenia
- 1999 North Dakota Psychiatric Association, Fargo, North Dakota: Advances in neuropsychiatry (series of 4 lectures)
- 1999 National Institute of Mental Health, Bethesda, MD: Hippocampus and schizophrenia
- 1999 Rouffach, France; Conference *Recent advances in psychiatry*: Pathophysiology of schizophrenia
- 2000 Maryland Psychiatric Research Center; Grand Rounds: Neuroimaging studies of memory function in schizophrenia
- 2000 Santiago de Chile, Chile; Colegio Chileno de Neuropsicofarmacologia IV International Symposium *The fundamentals of psychiatry: history, genetics, neurobiology and clinics*: The neural basis of schizophrenia, Psychiatric Neuroscience: Cells and circuits
- 2000 Whitehead Institute, MIT, Cambridge; *CITP Festschrift for Dr. Craig Saxton*: Imaging the neurobiology for psychiatric disorders
- 2001 Magdeburg, Germany; 2nd Symposium: *Limbic structures and functions*: Structural and functional imaging of limbic structures in schizophrenia
- 2001 Society of Biological Psychiatry 2001 Annual Meeting, New Orleans, Louisiana; Workshop: *How postmortem studies can inform in vivo imaging studies in mood disorders and schizophrenia*: Neuroimaging and postmortem studies of the hippocampus in schizophrenia
- 2001 Berlin, Germany; 7th World Congress of Biological Psychiatry Symposium: *The role of the thalamus in the pathophysiology of schizophrenia*: Impaired recruitment of the thalamus during recognition of novel objects in schizophrenia
- 2001 Royal University Hospital, Department of Medical Imaging, Saskatoon, Saskatchewan, Canada; Childers' Lecture: Neuroimaging studies of memory function in schizophrenia
- 2001 Royal University Hospital, Department of Psychiatry, Saskatoon, Saskatchewan, Canada; Psychiatric Neuroscience: Cells and circuits
- 2001 National Football League Program for Substances of Abuse: Chicago, Illinois; Psychiatric Neuroscience: Cells and circuits
- 2001 Wellesley College, Department of Biology, Wellesley, Massachusetts; The neural basis of psychosis
- 2001 8th International Psychiatric Congress, Buenos Aires, Argentina; *Asociacion Argentina de Psiquiatras*: The neural basis of psychosis
- 2001 8th International Psychiatric Congress, Buenos Aires, Argentina; *Asociacion Argentina de Psiquiatras*: Psychiatric Neuroscience
- 2001 Massachusetts Institute of Technology, Cambridge, Massachusetts; Conference: *Learning and the Brain V*: Human Neuroanatomy: Basic Principles
- 2001 University of Massachusetts, Department of Biology, Boston, Massachusetts: The neural basis of psychosis
- 2001 Tufts University, New England Medical Center, Boston, Massachusetts; Psychiatry Grand Rounds: Neuroimaging studies of memory in schizophrenia
- 2002 Center for Addiction and Mental Health, Toronto, Canada: Neuroimaging studies of memory function in schizophrenia
- 2002 Center for Addiction and Mental Health, Toronto, Canada: Hippocampus in psychiatric disorders
- 2002 College of Psychiatric and Neurologic Pharmacists, Seattle, Washington; 5th Annual Meeting, *Neuroanatomy for the Clinician*: Cells and Circuits
- 2002 Athens, Greece; Brainstorms 2002: *The Future of Neuroimaging*: Imaging the Hippocampus in Schizophrenia
- 2002 Massachusetts Institute of Technology; Conference: *Learning and the Brain V*: Human Neuroanatomy: Basic Principles

- 2002 St. Joseph Medical Center, Department of Psychiatry, Baltimore, Maryland: Grand Rounds: Psychiatric Neuroscience: Cells and circuits
- 2003 Juan March Institute, Madrid, Spain; Center for International Meetings on Biology *Workshops on synaptic dysfunction and schizophrenia*: Structure and function of the hippocampus in schizophrenia
- 2003 Janssen CNS Advisory Summit: Scottsdale, Arizona: The hippocampus in schizophrenia
- 2003 International Congress on Schizophrenia Research: Colorado Springs, Colorado: Selective anterior cingulate dysfunction during cognitive interference in schizophrenia
- 2003 Guarunja, Brazil; 5th Symposium: *Search for the causes of schizophrenia*: Hippocampal structure and function in schizophrenia
- 2003 The Banbury Center, Cold Spring Harbor Laboratory; *Integrating Progress in the Genetics and Neuropharmacology of Schizophrenia*: Hippocampal structure and function in schizophrenia
- 2004 Zucker Hillside Hospital, Department of Psychiatry, Glen Oaks, New York; Grand Rounds: The structure and function of hippocampus in schizophrenia
- 2004 Cambridge City Hospital, Department of Psychiatry, Cambridge, Massachusetts; Grand Rounds: The pathogenesis of schizophrenia: developmental or degenerative?
- 2004 St. Louis, Missouri; *Systems Analysis and Hands-on Dissection of the human brain*: Imaging of psychiatric disorders
- 2004 Bern, Switzerland; *Sechstes Drei Laender Symposium*: European Psychiatry
- 2004 Berkshire Medical Center, Department of Psychiatry, Pittsfield, Massachusetts; Grand Rounds: The neural basis of schizophrenia
- 2004 Academy of Psychosomatic Medicine, Marco Island, Florida; Plenary Lecture: Hippocampal dysfunction and psychosis
- 2004 University of Massachusetts Medical School, Department of Psychiatry, Worcester, Massachusetts: Imaging hippocampal dysfunction in schizophrenia
- 2004 San Juan, Puerto Rico; ACNP Meeting 2004: Imaging hippocampal dysfunction in schizophrenia
- 2005 The Banbury Center, Cold Spring Harbor Laboratory; Schizophrenia workshop; Hippocampus in schizophrenia
- 2005 Yale University, New Haven, Connecticut; *Biological Sciences Training Program Lecture*: Hippocampal dysfunction in psychiatric disorders
- 2005 MGH Psychiatry Academy, Dallas, Texas; Live Roundtable Discussion: Executive Function, Cognition and Psychiatric Disorders
- 2006 Vanderbilt University, Nashville, Tennessee; Brain Awareness Keynote Address: Is there a neuroanatomy of schizophrenia?
- 2006 New York University, Department of Psychiatry, New York, New York; Grand Rounds: Neuroimaging of memory function in schizophrenia
- 2007 Warren Foundation, Tulsa Oklahoma; Grand Rounds: Hippocampal dysfunction in psychiatric disorders
- 2007 University of Mississippi, Department of Psychiatry, Jackson, Mississippi; Grand Rounds: Hippocampal dysfunction in psychiatric disorders
- 2008 University of Tennessee, Department of Psychiatry, Memphis, Tennessee; Grand Rounds: Hippocampal dysfunction in psychiatric disorders
- 2008 Vanderbilt University Institute for Imaging Science (VUIIS) Retreat 2008, Chattanooga, Tennessee: Neuroimaging in Psychiatry
- 2008 Universität Freiburg, Psychiatrische Klinik, Freiburg, Germany: Bildgebung in der Psychiatrie (Neuroimaging in Psychiatry)
- 2008 Washington University, St. Louis, Missouri; Memory Disorders Research Society: Hippocampal mechanisms of memory dysfunction in schizophrenia
- 2008 XIV World Congress of Psychiatry, Prague, Czech Republic; DSM-V Symposium: Status report of the DSM-V Psychosis Work Group: DSM-V Workgroup Psychosis.

- 2008 University of Texas Southwestern Medical Center, Dallas, Texas: Hippocampal pathology in psychiatric disorders
- 2009 Vanderbilt University, Nashville, Tennessee; Brain Awareness Keynote Address: Are mental illnesses disorders of the brain?
- 2009 University of Michigan, Department of Psychiatry, Ann Arbor, Michigan: Hippocampal dysfunction in psychosis
- 2009 East Tennessee State University, Department of Psychiatry, Johnson City, Tennessee: DSM Workgroup on Psychotic Disorders Plans for DSM-V.
- 2009 Meharry Medical College, Department of Psychiatry, Nashville, Tennessee: The future of psychiatric Diagnosis
- 2010 Ludwigs-Maximilians-University, Munich, Germany: Hippokampale Mechanismen der Psychose
- 2010 Southern Psychiatric Association Meeting, Asheville, North Carolina: Psychotic Disorders in DSM-5
- 2011 University of Illinois at Urbana-Champaign, Beckman Institute for Advanced Science and Technology, Urbana, Illinois: Relational memory in psychotic disorders
- 2012 44th Annual Family Medicine Review Course and the 5th Family Medicine/Psychiatry CME Conference, The University of Tennessee, Memphis, Tennessee: DSM 5 - A preview
- 2012 Joint Meeting of ECNS/ISBET/ISNIP/EPIC, Bristol, Tennessee: Neuroimaging of psychotic disorders
- 2013 University of Illinois at Chicago, Department of Psychiatry, Chicago, Illinois: Hippocampal dysfunction in psychotic disorders
- 2013 University of Maryland, Department of Psychiatry, Festschrift for William Carpenter: The future of psychopathology research
- 2013 International Conference on Basic and Clinical Multimodal Imaging, University of Geneva, Geneva, Switzerland: Imaging hippocampal function in psychotic disorders; The future of psychopathology research
- 2014 Johns Hopkins University, Department of Psychiatry, Baltimore, Maryland: What is wrong with the hippocampus in psychosis?
- 2014 Wayne State University, Department of Psychiatry, Detroit, Michigan: Hippocampal dysfunction in psychotic disorders
- 2015 Columbia University, Department of Psychiatry, New York City, New York: Hippocampal dysfunction in psychotic disorders
- 2015 Translational Neuroscience Seminar, Stanley Center/McGovern Institute/MGH, Boston, Massachusetts: How can we make progress in psychiatric research?
- 2015 University of California San Diego, Department of Psychiatry, San Diego, California: Hippocampal dysfunction in psychotic disorders
- 2015 Southern Psychiatric Association Meeting, Chattanooga, Tennessee: The early stage of psychosis: Diagnosis & treatment
- 2016 University of Alabama, Birmingham, Alabama: Hippocampal dysfunction in psychotic disorders
- 2017 University Freiburg, Department of Psychiatry, Freiburg Germany: How can we make progress in schizophrenia research?
- 2018 University of North Carolina, Department of Psychiatry, Chapel Hill, North Carolina: Catatonia – Are we ready to move?
- 2018 State University of New York, Stony Brook, New York: Hippocampal dysfunction in psychotic disorders
- 2018 University of Copenhagen, Copenhagen, Denmark (Philosophical Issues in Psychiatry V: The Problems of Multiple Levels, Explanatory Pluralism, Reduction and Emergence): Psychiatric Discourse: Scientific reductionism for the autonomous person
- 2018 University Bern, Department of Psychiatry, Bern, Switzerland, Festschrift for Werner Strik: The reduction of biological complexity in schizophrenia concepts

- 2018 DGPPN Kongress, Berlin, Germany (Symposium of the National Academy of Sciences Leopoldina): Phenotype and classification of catatonia
- 2019 Virginia Commonwealth University, Department of Psychiatry, Richmond, Virginia: Catatonia – Are we ready to move?
- 2019 Alabama Psychiatric Physicians Association 2019 Fall Conference, Birmingham, Alabama: Hippocampal dysfunction in psychotic disorders
- 2022 The University of Tennessee Health Science Center, Department of Psychiatry, Memphis, Tennessee: February 2022: What is psychosis?

Research Program

Past support

- 1991 - 1993 NARSAD Young Investigator Award: Chemoarchitecture of the schizophrenic brain, PI: Stephan Heckers, Total award \$60,000.
- 1997 - 1998 Harvard University, Dupont-Warren Fellowship, PI: Stephan Heckers, Total award \$40,000.
- 1998 - 2000 Harvard University/MIT, CITP, PI: Stephan Heckers, Total award \$80,000.
- 1998 - 2000 NARSAD Young Investigator Award: Assessment of hippocampal function in schizophrenia, PI: Stephan Heckers, Total award \$60,000.
- 1999 - 2000 Education and Research Foundation of the Society of Nuclear Medicine, PI: Stephan Heckers, Total award: \$8,000.
- 1999 - 2004 NIMH K23: Neuroimaging of hippocampal function in schizophrenia, PI: Stephan Heckers, Total award \$755,366.
- 2000 - 2002 NIMH R21 MH62822: Hippocampal gene expression in schizophrenia, PI: Francine Benes, Co-PI: Stephan Heckers, Total award \$250,000.
- 2001 - 2003 Stanley Foundation Research Award: Hippocampal neuron number and gene expression in bipolar disorder and schizophrenia, PI: Stephan Heckers, Total award \$25,000.
- 2001 - 2005 MIND Institute Grant: Neuroimaging studies of schizophrenia, PI: Stephan Heckers, Total award \$60,000.
- 2004 - 2010 NIMH R01 MH067999: Hippocampus in schizophrenia and bipolar disorder, PI: Stephan Heckers, Total award \$1,247,991.
- 2014 - 2019 5 R01 MH102266-05: Thalamocortical Networks in Psychosis, PI: Neil Woodward

Current support

- 2005 - 2026 NIMH R01 MH070560-11: Imaging hippocampal function in psychosis, PI: Stephan Heckers, Total award \$1,289,348 (project period #1: 2005-2012), \$2,045,685 (project period #2: 2013-2020), \$4,019,156 (project period #3: 2021-2026)
- 2019 - 2024 1 R01 MH18273-01A1: The General Factor of Psychopathology in Psychosis and Severe Mental Illness, PIs: Stephan Heckers / David Zald / Neil Woodward
- 2019 - 2022 1R01MH116269-01A1: Leveraging electronic health records for pharmacogenomics of psychiatric disorders, PI: Doug Ruderfer
- 2020-2024 1R01MH120588-01A1: Academic-Community EPINET (AC-EPINET): Mitigating Barriers to Care, PI: Alan Breier, Site PI: Stephan Heckers
- 2020 - 2025 1R01 MH123563-01: Semiparametric Inference for Psychiatric Neuroimaging, PI: Simon Vandekar

Publications and Presentations (Web of Science h-Index in September 2022= 61)**Original Articles:**

1. **Heckers S**, Heinsen H, Heinsen YC, Beckmann H. Limbic structures and lateral ventricle in schizophrenia. A quantitative postmortem study. *Archives of General Psychiatry* 1990; 47: 1016-22.
2. **Heckers S**, Heinsen H, Heinsen Y, Beckmann H. Morphometry of the parahippocampal gyrus in schizophrenics and controls. Some anatomical considerations. *Journal of Neural Transmission - General Section* 1990; 80: 151-5.
3. Sofic E, Götz M, Frölich L, Burger R, **Heckers S**, Riederer P, Jellinger K, Beckmann H. Reflection of changes in membrane constituents in various regions of Alzheimer brains to differential scanning thermograms. *Journal of Neural Transmission* 1990; Suppl. 32: 259-67.
4. **Heckers S**, Heinsen H, Heinsen Y, Beckmann H. Cortex, white matter, and basal ganglia in schizophrenia: a volumetric postmortem study. *Biological Psychiatry* 1991; 29: 556-66.
5. Sofic E, Frölich L, Riederer P, Jellinger K, **Heckers S**, Beckmann H, Deinzer E, Pantucek F, Hebenstreit G, Ransmayr G. Biochemical membrane constituents and activities of alkaline and acidic phosphatase and cathepsin in cortical and subcortical brain areas in dementia of Alzheimer type. *Dementia* 1991; 2: 39-44.
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8. **Heckers S**, Geula C, Mesulam MM. Acetylcholinesterase-rich pyramidal neurons in Alzheimer's disease. *Neurobiology of Aging* 1992; 13: 455-60.
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13. Deckert J, Berger W, Kleopa K, **Heckers S**, Ransmayr G, Heinsen H, Beckmann H, Riederer P. Adenosine A1 receptors in human hippocampus: inhibition of [3H]8-cyclopentyl-1,3-dipropylxanthine binding by antagonist drugs. *Neuroscience Letters* 1993; 150: 191-4.
14. Konradi C, Kobierski LA, Nguyen TV, **Heckers S**, Hyman SE. The cAMP-response-element-binding protein interacts, but Fos protein does not interact, with the proenkephalin enhancer in rat striatum. *Proceedings of the National Academy of Sciences of the United States of America* 1993; 90: 7005-9.
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- cognitive outcomes in intensive care unit survivors: the VISIONS cohort magnetic resonance imaging study. *Crit Care Med.* 2012; 40:2022-32. PMID 22710202.
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