CURRICULUM VITAE
STEVEN MARC PAUL, M.D.

Birthdate/Place: --(b)(6)--
Marital Status: --(b)(6)--
Citizenship: --(b)(6)--

Education:

BA Tulane University, --(b)(6)--; Degree awarded Magna Cum Laude with honors in biology and psychology.
MS Tulane University, --(b)(6)--; Anatomy, Neuroanatomy
MD Tulane University, --(b)(6)--
Neurology Intern, --(b)(6)--
Resident in Psychiatry, --(b)(6)--
Resident in Psychiatry, --(b)(6)--
Research Associate, --(b)(6)--
Clinical Associate, --(b)(6)--

Professional Employment:

2012-Present	Burton P. and Judith B. Resnick Distinguished Professor in Neurodegenerative Diseases
2010-Present	Director, Helen and Robert Appel Alzheimer's Disease Research Institute, Professor of Neuroscience, Psychiatry and Pharmacology, Weill Cornell Medical College of Cornell University, New York, NY
2003-2010	Executive Vice President for Science and Technology and President of Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN
1998-2003	Group Vice President, Lilly Research Laboratories (Therapeutic Area Discovery Research and Clinical Investigation) Eli Lilly and Company, Indianapolis, IN
1996-1998	Vice President, Lilly Research Laboratories (Therapeutic Area Discovery Research and Clinical Investigation) Eli Lilly and Company, Indianapolis, IN
1993-1996	Vice President, Lilly Research Laboratories, (CNS Discovery Research and Clinical Investigation) Eli Lilly and Company, Indianapolis, IN
1993-2010	Professor of Pharmacology and Psychiatry, Departments of Pharmacology and Toxicology and Psychiatry, Indiana University School of Medicine, Indianapolis, IN
1993-1996	Guest Researcher, Clinical Neuroscience Branch, NIMH, Bethesda, MD
1990-1993	Director, Intramural Research Program (Scientific Director), NIMH, Bethesda, MD
1988-1990	Acting Director, IRP, NIMH, Bethesda, MD
1988-1989	Deputy Director for Science, IRP, NIMH, Bethesda, MD
1982-1988	Chief, Clinical Neuroscience Branch, IRP, NIMH, Bethesda, MD
1988-1993	Chief, Section on Molecular Pharmacology, Clinical Neuroscience Branch, NIMH, Bethesda, MD

1982-1988	Chief, Section on Preclinical Studies, Clinical Neuroscience Branch, NIMH, Bethesda, MD
1992	Adjunct Professor of Pharmacology, Boston University School of Medicine
1988	Clinical Professor of Psychiatry, Tulane University School of Medicine
1987	Adjunct Professor of Psychiatry, Medical College of South Carolina
1986-1992	Adjunct Professor of Psychiatry, University of Maryland School of Medicine
1985-1993	Adjunct Professor of Pharmacology, Uniformed Services University of the Health Sciences, Bethesda, MD
1979-1982	Staff Psychiatrist, IRP, Clinical Center, NIH
1979-1982	Chief, Unit on Preclinical Pharmacology, Clinical Psychobiology Branch, Bethesda, MD
1978-1993	Private practice of psychiatry-psychopharmacology, Bethesda, MD
1978-1979	Clinical Associate, Clinical Psychobiology Branch, NIMH, Bethesda, MD
1976-1978	Research Associate, Laboratory of Clinical Science, NIMH, Bethesda, MD
1975-1976	Instructor, Department of Psychiatry, University of Chicago, Pritzker School of Medicine

Board Certification, Honorary Fellowships, Medical Licenses:
American Board of Psychiatry and Neurology -- Board Certified
American College of Neuropsychopharmacology (ACNP) -- Fellow
American College of Psychiatrists -- Fellow (1990-1992)
Collegium Internationale Neuro-Psychopharmacologicum (C.I.N.P.) -- Fellow
Flex Exam Diplomat, Medical Licensure
Licenses: State of Louisiana, --(b)(6)--; State of Maryland, --(b)(6)--; State of Indiana, --(b)(6)--.

Military Service:
USPHS, Med Director (Active duty: --(b)(6)--)

Societies:
Tulane Scholars and Fellows
Phi Eta Sigma
Alpha Epsilon Delta
AAAS
Phi Beta Kappa
Southern Society of Anatomists
Sigma Xi
Alpha Omega Alpha Honor Medical Society

Honors and Other Special Scientific Recognition:

--(b)(6)--	Dean's List, Tulane University (all undergraduate semesters)
1975	Dr. John W. Bick Award, Senior Medical Student Award for Outstanding Achievement in Psychiatry -- presented by the Louisiana Psychiatric Association
1976	Sandoz Award, Outstanding Achievement in Psychiatry, University of Chicago, Pritzker School of Medicine
1980	A.E. Bennett Award, Society of Biological Psychiatry
1980	Morton Prince Award, American Psychopathological Association
1982	Arthur S. Flemming Award, Outstanding Scientific Work by U.S. Government Employee Under Age 40
1985	Allan C. Davis Medal, Maryland Academy of Sciences: Outstanding Young Scientist Award
1985	Meritorious Service Award, USPHS
1986	Foundations' Fund Prize for Research in Psychiatry, American Psychiatric Association
1986	Esquire Magazine Register
1986	Daniel H. Efron Award - American College of Neuropsychopharmacology
1988	4th Edward J. Sachar Award, Dept. of Psychiatry, Columbia University
1989	Roerig - Pfizer Visiting Professorship Award, Dept. of Psychiatry, UCLA
1990	Max Hamilton Award, 17th Collegium Internationale Neuro-Psychopharmalogicum Congress, Kyoto, Japan
1991	The Distinguished Service Medal, USPHS
1997	Elected Member, Institiute of Medicine, National Academies of Science
2001	Nancy Pritzker Award, Stanford University, Stanford, California
2005	Chief Scientific Officer of the Year, Pharmaceutical Achievement Awards
2009	Elected Fellow American Association for the Advancement of Science
2011	The Klerman Award for recognition of groundbreaking studies in neuroscience, including basic, translational, and clinical research. Presented by the Department of Psychiatry, The New York Hospital-Weill Cornell Medical College

Patents:

U.S. Patent No: 4,239,744 - Radioreceptor Assay for Benzodiazepines in Plasma and Other Biological Specimens.

U.S. Patent No: 5, 618,918 - Human Brain Specific Sodium Dependent Inorganic Phosphate Cotransporter.

U.S. Patent No: 5, 618,677 - Human Brain Specific Sodium Dependent Inorganic Phosphate Cotransporter Assay.

U.S. Patent No: 5,696,168 - Tomoxetine for the Treatment of Attention-Deficit/Hyperactivity Disorder

U.S. Patent No: 5,840,509 – Protease and Related Nucleic Acid Compounds

U.S. Patent No: 6,077,852 – Treatment of Central Nervous System Disorders with Selective Estrogen Receptor Modulators

U.S. Patent No: 6,897,022 - Susceptibility and Resistance Genes for Bipolar Affective Disorder

U.S. Patent No: 7,195,761 – Humanized Antibodies That Sequester Abeta Peptide

U.S. Patent No: 7,771,722 – Assay Method for Alzheimer's Disease

Journal Reviewing (Past or Present):
Neuropharmacology - Member, Editorial Board
Journal of Molecular Neuroscience, Member, Editorial Board
Journal of Nervous and Mental Disease - Member, Editorial Advisory Board
Journal of Neuropsychiatry and Clinical Neurosciences - Associate Editor
International Journal of Geriatric Psychopharmacology – Member, International Editorial Board
The Psychiatric Times - Member, Editorial Board
Depression and Anxiety - Member, Editorial Board
Alzheimer's and Dementia - Editorial Advisory Board
Ad Hoc Reviewer:

- Neuropsychopharmacology
- Science
- Nature Genetics
- Nature Medicine
- Nature Neuroscience
- Journal of Neuroscience
- Neurobiology of Aging
- Journal of Neurochemistry
- Proceedings National Academy of Science
- Archives of General Psychiatry
- Psychopharmacology
- European Journal of Pharmacology
- Pharmacology, Biochemistry, and Behavior
- Journal of Biological Chemistry
- Science Translational Medicine

Grant Reviewing, Extramural and Intramural Committees:

1981	Clinical Projects Research Review Committee, NIMH - Ad Hoc Reviewer
1981	Biological Sciences Review Committee, NIMH -Ad Hoc Reviewer
1982-1984	Drug Abuse Advisory Committee, Food and Drug Administration
1983-1984	Member, Research Advisory Group - Director, NIMH
1984-1987	Chairman, Animal Care Committee, NIMH, IRP
1986-1987	Member, Scientist Promotion Review Committee, NIMH, IRP
1986-1989	Member, VA Merit Review Board

1987-1988	Chairman, Scientist Promotion Review Committee, NIMH, IRP
1988-1993	Member, PHS Medical Review Board
1988-1993	Member, NIH Board of Scientific Directors
1991-1993	Program Committee, ACNP
1991	Chairman, NIH Research Day
1991-1993	Member, NIH Tenure and Promotion Subcommittee
1991-1992	Chairman, NIH Committee on the Status of Intramural Women Scientists
1991	Member, Search Committee for Deputy Director for Intramural Research
1991-1993	Member, NIH Clinical Center Infrastructure Committee
1992-1993	Member, NIH Committee on the Status of Intramural Women Scientists
1992	Member, Search Committee for NIH Clinical Center Director
1992	Special Advisory Panel (Halcion), Food and Drug Administration
1992	NIH Research Day Organizing Committee
1992	Co-Chairperson, Local Organizing Committee 1994 CINP Meeting
1994-1996	Member, American College of Neuropsychopharmacology Council
1994	Member, Collegium Internationale Neuro-Psychopharmacologicum Fellowship Awards Committee
1994	Special Ad Hoc Review Panel, VAMC Centers in Schizophrenia
1994	Special Ad Hoc NIH Advisory Panel on Cooperative Research Development Agreements (CRADA's) Between Industry and Government
1994-1997	Scientific Council, National Alliance for Research on Schizophrenia and Depression (NARSAD)
1995-1997	Member, National Medical Advisory Committee of Charter Medical Corporation
1996	Member, Advisory Committee, NAMI — National Campaign to End Discrimination Against People With Severe Mental Illness
1996-1999	Member, National Advisory General Medical Sciences Council, NIH
1996-1997	Member, Advisory Board, Institute fMemor Scientific Information, “Focus On: Psychopharmacology
1997	Invited Participant, Institute of Medicine, National Academy of Sciences, “Town Meeting on Clinical Research in the Public Interest”
1997	Member, Collegium Internationale Neuro-Psychopharmacologicum Corporate Membership Committee
1997	President-Elect, American College of Neuropsychopharmacology
1997	Member, Institute of Medicine, National Academy of Sciences
1998-present	Member, Dana Alliance for Brain Initiatives
1999-2000	Member, Scientific Advisory Board, Keystone Symposia on Molecular and Cellular Biology
2000	Invitee/Participant, First White House Conference on Mental Health
2000-2004	Member, IOM Board on Neuroscience and Behavioral Health
2001-present	Member, Executive Committee - Dana Alliance for Brain Initiatives
2001-2003	Member, Committee on Roles of Academic Health Centers in the 21st Century

2001-2006	Advisory Committee to the Director, National Institutes of Health
2001-2010	Member, Board of Trustees, Indianapolis Zoological Society
2003-2006	Liberal Arts and Sciences Dean's Advisory Council, Tulane University
2003-2008	Member, Board of Trustees, Butler University
2003-2010	Member, PhRMA Foundation Board
2003-2010	Member, PhRMA Science and Regulatory Committee (Incoming Chairperson)
2003-2010	Member, Board of Directors, Lilly Foundation
2003-present	Member, Board of Directors, Foundation for the National Institutes of Health
2003-present	Member, Scientific Advisory Board, Allen Brain Atlas, Allen Institute For Brain Science
2003-2006	Advisory Committee, Center for the Advancement of Children's Mental Health (CACMH) at Columbia University
2004-2010	Member, Board of Directors, BioCrossroads
2005-2009	Member, Strategy and Policy Council-MIT Center for Biomedical Innovation (CBI)
2005-2010	Board of Trustees Mental Illness and Neuroscience Discovery (MIND) Institute
2006-2009	Member, Institute of Medicine's (IOM) Forum on Neuroscience And Nervous System Disorders
2006-2012	Member, External Advisory Board, Univ of Penn, Institute on Aging (IOA)
2008-2012	Member, National Advisory Mental Health Council (NAMHC), NIMH
2008-2011	Member, External Advisory Committee for Indiana Center for Translational Science Institute, Indiana University
2009-2011	Member, Institute of Medicine Board on Health Sciences Policy (HSP)
2011-present	Member, Scientific Advisory Board, Simons Foundation Autism Research Initiative (SFARI)

Invited Lectures (Representative):

Neurobiology of Anxiety: Clinical Implications, Institute for Philosophical Studies, Naples, Italy, 1990.

Mechanisms of Action of Benzodiazepine, Annual Meeting of the American College of Psychiatry, Palm Springs, CA, 1990.

Antianxiety and Antipsychotic Agents, The Morgan Stanley Symposium in the Neuroscience, New York City, NY, 1990.

Neurobiological Substrates of Anxiety and Anti-Anxiety Drug Action, Beth Israel Medical Center, New York City, NY, 1990.

Neurobiology of Anxiety, University of Utah, Salt Lake City, UT, 1990.

Neurobiological and Neurochemical Mechanisms of Anxiety, The Sheppard and Enoch Pratt Hospital, Baltimore, MD, 1990.

Neurobiology of Anxiety Disorders, Sinai Hospital of Baltimore, Baltimore, MD, 1990.

Neurobiology of Anxiety: Molecular and Cellular Studies, Georgetown University, Washington, DC, 1990.

The Neuroscientific Forefront of Psychiatry, American Psychiatric Association, New York City, NY, 1990.

Animal Research, Animal Rights, and Public Policy, University of Arizona, Tucson, AZ, 1990.

New Developments in the Neurochemistry of the Brain, Annual Conference of the American Hospital Association Section for Psychiatric and Substance Abuse, San Francisco, CA, 1990.

Alterations in $GABA_A$ Receptor Expression and Function Following Chronic Ethanol Administration, International Society for Biomedical Research on Alcoholism, Toronto, Canada, 1990.

The Anxiety-Depression Continuum, American Psychiatric Association, Profiles of Anxiety Symposium, Boston, MA, 1990.

Anxiety and Insomnia: Current Trends in Research and Therapeutics, 17th Collegium Internationale Neuro-Psychopharmacologicum Congress, Kyoto, Japan, 1990.

Neurobiology of Anxiety: Clinical Implications, Institute for Philosophical Studies, Naples, Italy, 1990.

Biological Psychiatry and the Development of Modern Pharmacotherapy, Pharmacotherapy of Mental Disorders, Venice, Italy, 1990.

GABA Receptor-Active Neurosteroids: A New Class of CNS Active Stress-Hormones, Transmitter Amino Acid Receptors Symposium, London, England, 1990.

Anxiety Disorders: Molecular Pharmacology to Pathophysiology, University of Minnesota, Minneapolis, MN, 1990.

The Molecular Mechanisms of Anxiety: From Molecules to Man, Mayo Clinic, Rochester, MN, 1990.

The $GABA_A$ Benzodiazepine Receptor Complex and Panic Disorder, 5th World Congress of Biological Psychiatry, Florence, Italy, 1991.

Immunological and Virological Aspects of Identical Twins with Schizophrenia, 5th World Congress of Biological Psychiatry, Florence, Italy, 1991.

Panic Disorder: Controversies and Consensus, 5th World Congress of Biological Psychiatry, Florence, Italy, 1991.

N-Methyl-D-aspartate receptor-mediated neuroprotection in cerebellar granule cells requires new RNA and protein synthesis, University of California, Irvine, Irvine, California, 1992.

Anxiety: Of Molecules, Mice and Men, University of California, Irvine, California, 1992.

Glutamate Acting at NMDA Receptors Induces Both Excitotoxicity and Neuroprotection in Cerebellar Granule Cells--Evidence for a Neuroprotective Protein, Department of Pharmacology, Boston University, Boston, Massachusetts, 1992.

GABA-ergic Neurotransmission, Johns Hopkins Medical Institutions, Baltimore, Maryland, 1993.

Neuroactive Steroids: A Novel Class of Neuromediators, The Julius Axelrod Distinguished Lectures in Neuroscience of the Raymond and Beverly Sackler Foundation, The City College of The City University of New York, New York, 1993.

The Future of Psychiatric Research, Menninger Conference - Redefining Psychiatry: Implications for Practice, Training and Recruitment, The Menninger Clinic, Topeka, Kansas, 1994.

Long-term Treatment of Depression, Symposium - Depression: Diagnosis and Treatment, Mexico City, Mexico, 1994.

$GABA_A$ Receptors and Anxiety, Mexican Psychiatric Institute, Mexico City, Mexico, 1994.

Genetics of Depression, 4th Psychiatric International Symposium: Conference - Resistant Depression Treatment, Salvador, Brazil, 1994.

Genetics of Depression, 4th Psychiatric International Symposium: Conference - Advances in Schizophrenia, Salvador, Brazil, 1994.

Neuroactive Steroids: Biochemical and Behavioral Studies, Symposium - Neurosteroids, CINP Meeting, Washington, DC, 1994.

New Strategies for the Drug Treatment of Anxiety and Obsessive Compulsive Disorders, Congress of the Italian Society of Biological Psychiatry, Cagliari, Italy, 1994.

Novel Approaches to Neuroprotection: Genes and Second Messengers, Fall Seminar Series, Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN, 1994.

Neurotransmitters and Apoptosis: Studies in Cultured Fetal Cerebellar and Hippocampal Neurons, Seminar Series, Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, Boston, Massachusetts, 1994.

Fast Transmitter Ionotropic Receptors as Potential Targets for Psychotherapeutic Drugs, Howard Hughes Medical Institute Scientific Workshop, Molecular and Genetic Approaches to Mental Illness, Chevy Chase, Maryland, 1994.

Novel Approaches to Neuroprotection: Genes and Second Messengers, Department of Pharmacology, University of Toronto, Canada, January, 1995.

Development of New Psychopharmacological Medications — The Eli Lilly Approach, Sunnybrook Health Science Centre, Psychopharmacology Research Program, Department of Psychiatry, Sunnybrook, Toronto, Canada, January, 1995.

Developments in Schizophrenia, Global Drug and Biotechnology Conference, Merrill Lynch, New York City, New York, February 7, 1995.

ANXIETY: From Molecules to Mice to Man, Cleveland Psychiatric Society, Cleveland, Ohio, March 1, 1995.

The Impact of Molecular Biology for the Development of New Drugs, International Scientific Symposium, "Implications of Psychopharmacology to Psychiatry", Kloster Seeon, Bavaria, Germany, April 8, 1995

ANXIETY: Molecules to Man, Grand Rounds, Department of Psychiatry, University of Louisville, Louisville, Kentucky, April 20, 1995.

Olanzapine: Efficacy and Safety of a New Atypical Antipsychotic, IBC's First International Symposium, Schizophrenia, Latest Advances in Understanding and Drug Development, Philadelphia, Pennsylvania, May 9, 1995.

Atypical Antipsychotics and the Brain, New Drug Development for Schizophrenia Symposium at American Psychiatric Association (APA) 148th Annual Meeting, Miami, Florida, May 23, 1995.

Novel Approaches to Neuroprotection: Genes and Second Messengers, Grand Rounds, Department of Pharmacology, Georgetown University Medical Center, Washington, DC, May 30, 1995.

ANXIETY: From Pharmacology to Pathophysiology, Grand Rounds, Department of Psychiatry, Mass General Hospital, Harvard Medical School, Boston, Massachusetts,

June 2, 1995.

Mouse Models of Anxiety: Use of Recombinant Inbred Strains and QTL Mapping, IBC's International Symposium on Novel Systems and Therapeutic Targets for Depression and Anxiety, Philadelphia, Pennsylvania, June 23, 1995.

21st Century Psychopharmacology, Depression: The Leading Edge Symposium Sponsored by Rush-Presbyterian-St. Luke's Medical Center, Department of Psychiatry, Rush Institute for Mental Well -Being, Chicago, Illinois, June 24, 1995.

Neurobiological Substrates of Anxiety: From Mice to Man, International Symposium "Generalized Anxiety: Science and Practice, Sponsored by University of California, San Diego, San Diego, California, November 4-5, 1995.

Fundamentals of Neuropsychopharmacology, Psychopharmacology in Practice: Clinical and Research Update 1995, Sponsored by The Foundation for Advanced Education in the Sciences/National Institutes of Health, Bethesda, Maryland, November 10-11, 1995.

Psychiatric Genetics, Grand Rounds, Department of Psychiatry, University of Chicago, Chicago, Illinois, November 20, 1995.

Discovering Drugs for the Central Nervous System in the 21st Century, Grand Rounds, Department of Pharmacy, University of Chicago, Chicago, Illinois, November 20, 1995.

New Medications for Schizophrenia, The Science of Hope: Breakthroughs in Schizophrenia Research, Sponsored by The National Foundation for Brain Research, The National Institute of Mental Health, NIH and The National Alliance for the Mentally Ill, Washington, DC, March 20, 1996.

Research Advances That Will Reshape Care, McLean Symposium: Mental Health Care in the Next Century, American Psychiatric Association Annual Meeting, New York, New York, May 4-6, 1996.

Neurosteroids and Memory, The Brain: Source and Target For Sex Steroid Hormones at 1st Tuscania Conference on Reproductive Medicine, Pisa, Italy, May 14, 1996.

New Receptor Targets for Drug Design, New Strategies for the Development of Psychotherapeutics, 36th Annual New Clinical Drug Evaluation Unit (NCDEU) Meeting, Boca Raton, Florida, May 29, 1996.

Atypical Antipsychotic Drugs, Brain and Behavior: Novel Treatments from Evolving Science, The Third Robert G. Heath, M.D. Lectureship, Tulane University School of Medicine, Department of Psychiatry & Neurology, Center for Continuing Education, New Orleans, Louisiana, October 12, 1996.

Molecular Approaches to Neuroprotection: Apoptotic and Anti-Apoptotic Cellular Signals and Cascades, Department of Psychiatry, The Institute of Psychiatric Research, Indiana University School of Medicine, Indianapolis, Indiana, November 7, 1996.

CNS Drug Discovery for the XXIst Century: Combinatorial Chemistry to Genomics and Back, From the Bench to the Bed (Office) Side: New Directions for Preclinical Models of Clinical Symptoms and Drug Development, Teaching Day, 35th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico, December 9, 1996.

Molecular Approaches to Neuroprotection: Apoptotic and Anti-Apoptotic Cellular Signals and Cascades, Plenary Lecture — New England Pharmacologists 26th Annual Meeting, Boston, Massachusetts, February 8, 1997.

CNS Drug Discovery for the XXIst Century: Combinatorial Chemistry to Genomics and Back, Northwestern Drug Discovery Program Seminar Series, Northwestern University Medical School, Chicago, Illinois, April 23, 1997.

Neuroscience Strategies of Drug Discovery, Grand Rounds, Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, North Carolina, May 8, 1997.

Apoptosis: The Role of Genes and Second Messengers, Grand Rounds, The University of North Carolina at Chapel Hill, Center for Alcohol Studies, Chapel Hill, North Carolina, May 9, 1997.

New Drugs for Neuropsychiatric Disorders as We Approach the XXIst Century: How We'll Find Them and What We Can Expect, Daniel X. Freedman Memorial Lecture, University of California, Los Angeles, California, June 3, 1997.

Neuronal Apoptosis: Role of Genes and Second Messengers, Presidential Symposium of the Seventy-third Annual Meeting of the American Association of Neuropathologists, Inc., Pittsburgh, Pennsylvania, June 15, 1997.

Neuropsychiatric Drug Discovery for the XXIst Century, The Visiting Professorship Program sponsored by Western Psychiatric Institute and Clinic, Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, November 7, 1997.

Discovering Novel Drugs for Alzheimer's Disease: Impact of the Genomics Revolution, Chicago Chapter Society for Neuroscience, Symposium II-Novel Therapeutic Approaches to Brain Disorders, Chicago Historical Society, Chicago, Illinois, November 14, 1997.

Molecular and Genetic Approaches to Discovering New Antidepressant Drugs, Symposium on Stress, Pain, and Depression: Genetics, Neurobiology, and New

Treatment Directions, Mental Health Research Institute, University of Michigan Medical Center, Ann Arbor, Michigan, October 2, 1998.

Apolipoprotein E, Amyloid Deposition and Memory in the V717F (huAPP) Transgenic Mouse: From Neuropathology to Behavior, The 1st Brain Research Interactive Conference Knockouts and Mutants, Genetically Dissecting Brain and Behavior, Official Satellite Symposium to the 1998 Meeting of the Society for Neuroscience, Hilton Beach and Tennis Resort, San Diego, California, November 6, 1998.

Molecular Strategies to Novel Antidepressant Discovery — An Overview of Neuropharmacology, Continuation Medical Education (CME) Course, Psychopharmacology in Practice: Clinical and Research Update 1998, The Foundation for Advanced Education in the Sciences, Inc. at the National Institutes of Health, Bethesda, Maryland, November 20-21, 1998.

Alzheimer's Disease: From Genes to Drugs, The 20th Annual Alberto DiMascio Memorial Lecture of the American College of Neuropsychopharmacology, Departments of Pharmacology and Experimental Therapeutics and Psychiatry, Tufts University School of Medicine and New England Medical Center, Boston, Massachusetts, May 3, 1999.

Apolipoprotein E, α_2-Macroglobulin, Amyloid Deposition Alzheimer's Disease, IBC's Eighth Annual Conference on Alzheimer's Disease, Double Tree Suites Hotel, Boston, Massachusetts, May 20, 1999.

Recent Status of Genetic Studies in Bipolar Disorder, Third International Conference on Bipolar Disorder, Department of Psychiatry, University of Pittsburgh Medical Center, Sheraton Hotel Station Square, Pittsburgh, Pennsylvania, June 17, 1999.

Alzheimer's Disease: From Genes to Drugs, Keynote Speaker, Graduating Class of Department of Psychiatry School of Medicine, Yale University, New Haven, Connecticut, June 18, 1999.

The Emerging Pharmacotherapy of Schizophrenia, Research Plenary Session, NAMI 20th Anniversary Convention, Chicago Hilton & Towers, Chicago, Illinois, July 2, 1999.

Apolipoprotein E, Amyloid, and Alzheimer's Disease: Therapeutic Implications, Invited Plenary Speaker, Pivotal Research Program Symposium, Alzheimer's Therapeutic Approaches (7th International Conference on Alzheimer's Disease and Related Disorders) of World Alzheimer Congress 2000, Washington, DC, July 9, 2000.

Alzheimer's Disease: From Genes to Drugs: Grand Rounds, Morehouse School of Medicine, Department of Psychiatry and Behavioral Sciences, Atlanta, Georgia, September 20, 2000.

Pharmaceutical Advances and Research for Diseases of the Aging Population: 2000 Governor's Conference on Aging, Westin Hotel, Indianapolis, Indiana, October 3, 2000.

Alzheimer's Disease: From Genes to Animal Models to Drugs: 2000-2001 Seminars in Neuroscience Series, Center for Molecular Neuroscience, School of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, October 11, 2000.

Alzheimer's Disease: From Genes to Drugs: American College of Neuropsychopharmacology Lecture Series, sponsored by The Department of Pharmacology, Howard University College of Medicine, Washington, DC, November 15, 2000.

Moving Brain Science Forward in Industry and Society Plenary Panel – First Annual Symposium on Neurogenomics, Chapel Hill, North Carolina, April 26, 2001.

Alzheimer's Disease: From Genes to Drugs: Sterling Drug Visiting Professor, Boston University, Boston, Massachusetts, April 27, 2001.

Alzheimer's Disease: From Genes to Drugs: The Fifth Annual Nancy Pritzker Award Lectureship, Stanford University, Stanford, California, May 16, 2001.

Alzheimer's Disease: From Genes to Drugs: Plenary Lecture, Indiana University Fourth Annual Mental Health Symposium, "A New Century for Mental Health: Exploring the Brain, Treating the Person," Grand Hall Union Station, Indianapolis, Indiana, June 1, 2001.

Alzheimer's Disease: From Genes to Drugs: Grand Rounds, Duke University Medical Center, Durham, North Carolina, October 3, 2001.

Mood Disorders: Session 1: The Communicating Brain, NINDS/NIMH 50th Anniversary Symposium, "Celebrating 50 Years of Brain Research, New Discoveries, New Hope," Natcher Conference Center, Bethesda, Maryland, October 9, 2001.

Alzheimer's Disease: From Genes to Drugs: Friends of the Alzheimer's Disease Center Public Health Education Forum, University of Texas Southwestern Medical Center, Dallas, Texas, October 30, 2001.

Alzheimer's Disease: From Genes to Drugs: External Seminar Series, The Institute of Psychiatric Research, Indiana University Medical Center, Indianapolis, Indiana, November 1, 2001.

Alzheimer's Disease: From Genes to New Treatments: ACNP 2001 Networking Session, ACNP 40th Annual Meeting, Waikoloa, Hawaii, December 9, 2001.

Alzheimer's Disease: From Genes to Drugs: Tulane Neuroscience Homecoming Symposium, "This is your Brain at Tulane," Freeman Auditorium, Tulane University, New Orleans, Louisiana, October 11, 2003.

Where Drugs Come From: The Facts of Life About Pharmaceutical Innovation: Mid-Atlantic Bio/Med Conference and Exhibition, Baltimore Convention Center, Baltimore, Maryland, December 3, 2003.

ApoE, Amyloid, Astrocytes and Alzheimer's Disease: Duke University Medical Center, Durham, North Carolina, February 11, 2004.

Alzheimer's Disease: From Genes to New Drugs: The Eighteenth Annual Joseph & Kathleen Bryan Alzheimer's Disease Research Center Conference – Alzheimer's 2004: Targeting the Epidemic, Durham Marriott at the Civic Center, Durham, North Carolina, February 12, 2004.

Status and Productivity of the Pharmaceutical Industry: International Conference on Drug Development-Innovation, Efficiency and Predictability of Drug Development, Barton Creek Conference Center, Austin, Texas, February 23, 2004.

Synergy Between the Public and Private Sectors: Institute of Medicine Board on Health Sciences Policy, Forum on Drug Discovery, Development and Translation, The National Academies' Keck Center, Washington, DC, June 2, 2004.

ApoE, Amyloid, Astrocytes and Alzheimer's Disease – A Drugable Disease Pathway?: Invited Plenary Lecture: 9th International Conference on Alzheimer's Disease and Related Disorders, Pennsylvania Convention Center, Philadelphia, Pennsylvania, July 20, 2004.

Alzheimer's Disease: Realizing the Promise of Molecular Medicine: Invited Plenary Lecture: Department of Pharmacology in partnership with the Neuroscience Program and Department of Psychiatry, Research Complex I Inaugural Open House, University of Colorado Health Sciences Center, University of Colorado, Denver, Colorado, October 7, 2004.

Alzheimer's Disease: From Disease-Causing Genes to New Drugs: Invited Plenary Lecture: School of Medicine, Boston University, Boston, Massachusetts, October 15, 2004.

Alzheimer's Disease: Realizing the Promise of Molecular Medicine: Alzheimer's Association National Board of Directors Meeting, Chicago, Illinois, November 6, 2004.

Alzheimer's Disease: ApoE, Amyloid and Astrocytes: Invited Plenary Lecture: 3rd Winter Biotechnology Conference at Cold Spring Harbor, Drug Discovery in Neurodegenerative Diseases, Cold Spring Harbor, New York, New York, December 2, 2004.

How to Make the R&D Business Model Sustainable – "Realizing the Promise of Molecular Medicine": R&D Directions, Drug Development Summit, Phoenix, Arizona, February 7, 2005

Alzheimer's Disease: Genomics to Proteomics to New Drugs: Gill Seminar, Indiana University, Bloomington, Indiana, February 18, 2005.

Alzheimer's Disease: ApoE Alleles, Amyloid and Astrocytes – Implications for Therapeutic Intervention: Grand Rounds, Columbia University, New York, New York, March 4, 2005.

What Really Ails Big Pharma? The Solution to the R&D Productivity Conundrum: Massachusetts Institute of Technology, Cambridge, Massachusetts, April 13, 2005.

Alzheimer's Disease: Genes, Proteins and New Drugs – "Realizing the Promise of Molecular Medicine": Grand Rounds, Brown University, Providence, Rhode Island, April 29, 2005.

Alzheimer's Disease: From Genes to New Drugs: GTCbio Conference: Therapeutic Strategies Against Neurodegenerative Conditions, Boston Marriott, Burlington, Massachusetts, October 10, 2005.

Drug Discover and Development: Challenges and Opportunities in the Twenty-First Century – *"The important complimentary roles of industry and academia"*: The 3rd Annual Lecture honoring Michael Leahey and Dr. Edward Leahey, Jr., Cardiology Division, Columbia University, Clark Conference Center, Milstein Hospital Building, New York City, New York, January 31, 2006.

ApoE and Alzheimer's Disease: New Insights into Molecular Pathogenesis and Treatment: The 51st Annual George H. Bishop Lecture in Experimental Neurology, Departments of Neurology and Neurological Surgery, School of Medicine, Washington University, St. Louis, MO, May 8, 2006.

Drug Discovery and Development in the XXIst Century: Realizing the Promise of Molecular Medicine: Plenary Lecture at Drug Discovery Technology and Development World Congress, Boston, MA, August 9, 2006.

Drug Development in the XXIst Century: Challenges and Opportunities: New York Presbyterian Healthcare System, Clinical Research Conference, Burke Rehabilitation, White Plains, NY, October 25, 2006.

Targeting ApoE and Aβ for Alzheimer Therapies: Plenary Lecture at 7th Annual Marian S. Ware Neurodegenerative Diseases Research Retreat: Current Research in Neurodegenerative Diseases, University of Pennsylvania, School of Medicine, Philadelphia, Pennsylvania, November 9, 2007.

Biopharmaceutical R&D: Challenges and Opportunities in the XXIst Century: Keynote Speaker at Indiana Life Sciences Collaboration Conference Series, Embassy Suites Hotel, Indianapolis, IN, February 1, 2008.

Metabotropic Glutamate Receptors: Targets for Novel Antipsychotic and Anxiolytic Drugs: Neuroscience Grand Rounds, Massachusetts General Hospital, Boston, MA, April 4, 2008.

Alzheimer's Disease: From Genes to Drugs: Chicago Symposium on Translational Neuroscience, University of Chicago, Department of Neurology and the Program in Pathobiology and Translational Neuroscience, Chicago, IL May 23, 2008.

Tailoring Therapies for Common Complex Diseases: Pharmacogenomic (and other) Lessons from Non-Psychiatric Disorders – An Industry Perspective: Plenary Lecture at 48th Annual NCDEU Meeting, Personalizing Treatment: New Research Approaches for Mental Health Interventions, Arizona Biltmore, Phoenix Arizona, May 28, 2008.

Challenges in Drug Development: Plenary Lecture at 1st Schizophrenia International Research Society Conference, Venice, Italy, June 22, 2008.

ApoE and Alzheimer's Disease: From Genetic Susceptibility to Molecular and Cellular Pathogenesis to Drugs: Workshop at National Institute on Aging – The Role of Apolipoprotein E in Brain Aging and Alzheimer's Disease, Marriott Suites, Bethesda, MD, August 13, 2008.

Pharmaceutical Strategic Alliances Conference – Capturing Value: What business models are next for the biopharma world?: Panelist on Revitalizing Big Pharma R&D Panel, Moderated by Roger Longman, Managing Partner, Pharma, FDC-Windhover, New York Marriott Downtown, New York City, NY, September 24, 2008.

Alzheimer's Disease: From Genes to New Therapies: Grand Rounds at McLean Hospital, Belmont, MA, September 25, 2008.

National Health Science Summit: Panelist on Drug Discovery and Innovation Panel Moderated by Roger Sergel, Managing Editor of Medical Coverage for ABC Television. Rockefeller Center, Rainbow Room, New York, NY, November 7, 2008.

Alzheimer's Disease: New Hope on the Horizon Through Biomedical Research: Alzheimer's Public Forum, University of Texas Southwestern Medical Center, Dallas, TX, November 18, 2008.

Commencement Keynote Speaker – Tulane University School of Medicine "Katrina" Class of 2009, New Orleans, Louisiana, May 16, 2009.

Alzheimer's Disease: From Genetic Susceptibility to Molecular Pathogenesis to New Treatments: Decade of Discovery – An Afternoon of Science, The MIND Research Network for Neurodiagnostic Discovery, Albuquerque, NM, October 23, 2009.

Alzheimer's Disease: New Therapeutic Approaches: Developing Therapy for Alzheimer's - Global Health & The Arts: A Forum on Alzheimer's Disease, New Haven, CT, January 29, 2010.

"Alzheimer's Disease: From Genomics to Proteomics to New Drugs" 11th Annual Neuroscience Symposium, UNC School of Medicine, October 14th, 2010

Alzheimer's Disease: From Genetic Etiology to Molecular Pathogenesis to Rational Treatments – The Winifred Masterson Burke Medical Research Institute Weekly Colloquium, May 10, 2011

ApoE: FriEnd or FoE, from Mice to Man – Symposium on The Biology of Apolipoprotein E: A Novel Pathway for the Treatment of Alzheimer's Disease? The New York Academy of Sciences, May 24, 2011

Alzheimer's Disease: From Our Genes To Early Diagnosis and Treatment – Menard and Anna Gertler Honorary Lecture, Department of Medicine, Weill Cornell Medical College of Cornell University, June 21, 2011

Private Investment in Pharmaceutical R&D: Is the Model Broken? – Session 1 Defining the Problem: Challenges facing industry and FDA in promoting scientific innovation in drug development and evaluation. President's Council of Advisors on Science and Technology (PCAST), Advancing Innovation in Drug Development and Evaluation, June 30, 2011

ApoE and Alzheimer's Disease: Therapeutic Implications – Alzheimer's Disease Roundtable: The Future Therapeutic Landscape. Alzheimer's Drug Discovery Foundation, July 7, 2011

Alzheimer's Disease: From Our Genes to New Diagnostics and Drugs - New York-Presbyterian Hospital and Weill Cornell Medical College, Department of Psychiatry Klerman Memorial Honorary Lecture, September 6 and 7, 2011

Drug Discovery and the Biopharmaceutical Ecosystem: The Imperative for New R&D Models "The Evolving Role of Academic Drug Discovery" – Johns Hopkins School of Medicine Brain Science Institute, Baltimore, MD, October 18, 2011.

Drug Discovery and the Biopharmaceutical Ecosystem: Challenges & Opportunities - Weill Cornell Medical College, Department of Pharmacology, New York, NY, November 22, 2011.

Drug Discovery & Development: Current Challenges & Opportunities "It is the worst of times – it is the best of times" – Weill Cornell Medical College, Department of Pharmacology, New York, NY, December 12, 2011.

ApoE and Amyloid-β Metabolism, Tau Pathology and Seizures - Gladstone Institute of Neurological Disease, University of Southern California, San Francisco, CA, January 31, 2012.

Co-Presenter on Episode 5 of the Charlie Rose Brain Series II on Schizophrenia. Public Broadcasting Service, February 14, 2012. charlierose.com, http://www.charlierose.com/view/collection/10702

Challenges to the Biopharmaceutical Ecosystem: *The Imperative for New R&D Models to Drive Innovation* – 18th Annual Wharton Health Care Business Conference, The Wharton School, University of Pennsylvania, Philadelphia, PA, February 17, 2012.

Challenges to the Biopharmaceutical Ecosystem: *The Imperative for New R&D Models to Drive Innovation* – American Psychiatric Association Pipeline Summit, Arlington, VA, March 8, 2012.

Drug Discovery and Development: Current Challenges & Opportunities "*It is the worst of times – it is the best of times*" – 4th Annual NIMH Sponsored Brain Camp, National Institute of Mental Health, Cold Spring Harbor, NY, March 18, 2012.

Improving Translation of Animal Models for Nervous System Disorders – Institute of Medicine Neuroscience and Nervous Systems Disorders Forum 15th Meeting, National Academy of Sciences, Washington, D.C., March 28, 2012.

Why Big Bad Drug Companies are Good for Your Health: Drug Discovery and the Biopharmaceutical Ecosystem – The David Rogers Health Policy Colloquium, Weill Cornell Medical College, Department of Medicine and Public Health, New York, NY, May 2, 2012.

Alzheimer's Disease: Genes, Diagnostics and Therapeutic Advances – American Psychiatric Association (APA) 2012 Annual Meeting, Philadelphia, PA, May 7, 2012.

Alzheimer's Disease: Science That Will Lead to Effective Treatments *Role of Weill Cornell and the Appel Institute* – Board of Overseers Meeting, Weill Cornell Medical College, New York, NY, May 9, 2012.

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