

Curriculum Vitae December, 2021

IVAN DIAMOND, M.D., Ph.D.

Introduction

I was born and raised in Brooklyn, NY. In 1951 at 16 years of age I took a special Ford Foundation examination which enabled me to attend the University of Chicago (U of C) after my sophomore year at Abraham Lincoln High School. I credit my education at U of C with teaching me how to think. After attending the U of C School of Medicine (1957 – 1961), and a medical internship at the New England Center Hospital (Tufts University), I completed a Neurology residency with Richard Richter at U of C (1962 - 65).

As a resident in Neurology and as a postdoctoral fellow at U of C (1964 – 1967), I had the opportunity to train with Rudi Schmid, who was an awe-inspiring role model in academic medicine and a superb medical scientist. Rudi kindled my devotion to translational medicine. I elucidated the pathogenic mechanism by which unconjugated, unbound bilirubin crosses the blood-brain barrier to cause bilirubin encephalopathy (kernicterus) in jaundiced babies, particularly in premature infants. This body of work became my PhD thesis with Ruth Rhines at U of C (1967). As the pathogenesis of bilirubin encephalopathy became clear to physicians, the use of albumin infusions and phototherapy to prevent this condition became widespread in newborn nurseries.

I decided to further my education in basic science and was fortunate to be accepted as a postdoctoral fellow by Eugene P. Kennedy, Chair of Biological Chemistry at Harvard Medical School (1967 – 1969). Gene Kennedy was one of the most brilliant, formidable scientists at Harvard at the time. He taught me how to think as a scientist, to identify scientific challenges, to design definitive experimental studies and most important, how to learn from failed experiments. Here I described carrier-mediated uptake of choline at synapses. This work solved the puzzle how acetylcholine was re-synthesized after release from nerve terminals, vital to understanding the function of cholinergic synapses, and highly relevant to the CNS and neuromuscular disorders.

I was recruited to the University of California, San Francisco (UCSF) in 1969 by Robert Fishman and Melvin Grumbach with a joint appointment in Neurology and Pediatrics. Each had set out to build the best departments in the country, and they succeeded by all accounts. I was lucky to be surrounded by exciting faculty in medicine and science at UCSF and was able to extend work on phototherapy for bilirubin encephalopathy to develop an entirely novel photodynamic therapy for malignant tumors. We used hematoporphyrin (known to be taken up by cancer cells) as a photosensitizer to generate singlet oxygen to selectively destroy malignant cells when exposed to specific wavelengths of light. Based on our pioneering work Photodynamic Therapy is now widely employed for a variety of disorders in many medical disciplines. Advancing my prior work on cholinergic synapses, my laboratory described phosphorylation of the acetylcholine receptor. This was the first description of phosphorylation of any receptor *in situ*, a covalent modification now known to regulate a variety of receptors.

The most exciting experiences in my career occurred in 1980, when I was appointed to found and direct a newly established Ernest Gallo Clinic and Research Center (EGCRC) at UCSF. The EGCRC was founded to develop therapies for alcoholism and drug addiction. The Gallo Center became an important contributor to addiction research in two major ways. First, my group introduced cell biology to ethanol research, which we used to define CNS responses *in vivo*. We identified and characterized adenosine A2A receptor cAMP signaling and phosphorylation to regulate neuronal responses to alcohol and other addicting substances. This opened new avenues for pharmacologic therapy. Second, the Gallo Center was able to support dozens of new investigators and many more trainees who made pioneering contributions to alcohol and addiction research at UCSF and other universities. Indeed, half of the Gallo faculty later were elected to be President of the Research Society on Alcoholism (RSA). RSA is the leading society in the field.

After 22 years of directing the EGCRC, I was recruited to Cardiovascular Therapeutics (CVT) to become Vice President for Neuroscience (2005). A surge in dopamine in the nucleus accumbens during drug seeking behavior contributes to abnormal craving and alcohol/drug use in addiction. I developed a novel addiction therapy based on restoring normal dopamine homeostasis in the nucleus accumbens to prevent abnormal craving and addictive behavior. Our new medication does not affect basal dopamine levels but appears to only eliminate the surge in dopamine which occurs during episodes of drug-seeking behavior. After Gilead Sciences acquired CVT in 2009, I became a Senior Advisor at Gilead Sciences to bring this novel therapy into the clinic. Successful Phase I clinical trials were completed in 2014. Consequently, Louis Lange and I founded Amygdala Neurosciences in 2015 to develop this novel medication. A successful outcome will be a wonderful cap to my career to develop a medical treatment for alcoholism and drug addiction, and to prevent relapse.

Current

Chief Scientific Officer, Amygdala Neurosciences, Inc
Professor Emeritus of Neurology, Cellular and Molecular Pharmacology and Pediatrics
Founding Director, Ernest Gallo Clinic & Research Center
Former Vice Chair, Department of Neurology, University of California, San Francisco
Former Senior Advisor, Gilead Sciences, Inc.
Former Vice President for Neurosciences, Cardiovascular Therapeutics, Inc.

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http://ivandiamond.com/
http://profiles.ucsf.edu/ivan.diamond
http://www.amygns.com

Citizenship: USA Married, 3 children

Education:

1949-1951 Abraham Lincoln High School, Brooklyn, NY
1951-1953 12th Grade Certificate, June 12, 1953, University of Chicago
1953-1956 A.B., Liberal Arts, June 8, 1956, University of Chicago
1956-1957 B.S., Anatomy, June 8, 1957, University of Chicago
1957-1961 M.D., June 9, 1961, University of Chicago School of Medicine
1967 Ph.D., Neuroanatomy, June 10, 1967, University of Chicago

Training:

1958 U.S.P.H.S. Medical Student Research Fellow in Anatomy with Dr. Ruth Rhines, University of Chicago School of Medicine, Chicago, Ill
1961-1962 Intern in Medicine, Department of Medicine, New England Center Hospital, Tufts University, School of Medicine, Boston, MA
1962-1965 Resident in Neurology with Dr. Richard B. Richter, Department of Medicine (Neurology), Billings Hospital, University of Chicago School of Medicine
1964-1967 U.S.P.H.S. Postdoctoral Research Fellow with Dr. Rudi Schmid, Department of Medicine, University of Chicago School of Medicine
1967-1969 U.S.P.H.S. Special Postdoctoral Research Fellow with Dr. Eugene P. Kennedy, Department of Biological Chemistry, Harvard Medical School, Boston, MA
1975-1976 Josiah Macy, Jr., Foundation Faculty Scholar in Cell Biology and Membrane Physiology with Dr. E.R. Rozengurt, Imperial Cancer Research Fund, London, England

Honors and Awards:

- 1961 Alpha Omega Alpha
- 1966 Joseph A. Capps Prize for Medical Research by the Institute of Medicine of Chicago
- 1972 Edward J. Colman Award for Research in Myasthenia Gravis, Awarded by the Myasthenia Gravis Foundation of California
- 1971-1976 NIH Research Career Development Award, 1KF NB 23-131
- 1975-1976 Josiah Macy, Jr., Foundation Faculty Scholar Award
- 1982 J. Elliot Royer Award for Significant Contributions to the Advancement of Neurology
- 1990-1994 Elected Member, Board of Directors, Research Society on Alcoholism
- 1993-1995 Elected Vice President, Research Society on Alcoholism
- 1994 Distinguished Researcher Award, Research Society on Alcoholism
- 1994 James H. Tharp Award
- 1995 Elected President, California Academy of Medicine
- 1995-1997 Elected President, Research Society on Alcoholism
- 1995-2005 NIH MERIT Award
- 1996 Distinguished Alumni Award, University of Chicago School of Medicine
- 1998 Fellow, American Association for the Advancement of Science
- 1999 Bowles Lectureship Award, University of North Carolina, Chapel Hill
- 1999-2000 Wellcome Visiting Professor in the Basic Medical Sciences, Burroughs Wellcome Fund
- 2000 Member, The Dana Alliance for Brain Initiatives, Washington, D.C.
- 2003 Member, American College of Neuropsychopharmacology
- 4/25/2003 All Day UCSF Symposium on Alcoholism and Addiction Honoring Ivan Diamond
- 2005-2010 NIH Grant Award (NIAAA)
- 2014 Seixas Award, Research Society on Alcoholism

Appointments:

- 1965-1967 Instructor in Medicine (Neurology), University of Chicago School of Medicine; Attending Neurologist, Billings Hospital, Chicago
- 1967-1968 Assistant in Neurology, Harvard Medical School, Attending Neurologist, Beth Israel Hospital, Boston
- 1968-2005 Attending Neurologist, University of California Hospitals, San Francisco General Hospital, Veterans Administration Hospital, San Francisco

- 1968-1974 Assistant Professor of Neurology and Pediatrics, University of California, School of Medicine
- 1974-1980 Associate Professor of Neurology and Pediatrics, University of California, School of Medicine
- 1974-present Faculty Member, Graduate Program in Neurosciences, University of California, San Francisco
- 1974-1980 Faculty Member, Liver Center, University of California, San Francisco
- 1975-1976 Visiting Scientist, Imperial Cancer Research Fund, London, England
- 1979-1980 Associate Professor of Pharmacology, University of California, San Francisco
- 1980-2005 Professor of Neurology, Pediatrics and Cellular and Molecular Pharmacology, University of California, School of Medicine, San Francisco
- 1981-2002 Founding Director, Ernest Gallo Clinic and Research Center, University of California, San Francisco
- 1981-2003 Vice-Chairman, Department of Neurology, University of California, San Francisco
- 1986-2005 Faculty Member, Program in Biological Sciences (PIBS), University of California, San Francisco
- 1991-2005 Faculty Member, Molecular Medicine Program, University of California, San Francisco
- 1991-1995 Chairman, SFGH Program in Cellular and Molecular Medicine Program (PCMM), University of California, San Francisco
- 1994-1995 Acting Chief, Department of Neurology, San Francisco General Hospital
- 1995-2005 Faculty Member, Biomedical Sciences Graduate Program (BMS), University of California, San Francisco
- 1997-2005 Faculty and Advisory Committee Member, Center for the Neurobiology of Addiction, UCSF
- 1997-2005 Member, Academic Implementation Committee for Mission Bay, UCSF
- 1998-2005 Member, Executive Committee, Center for the Neurobiology of Addiction, UCSF
- 2005-2009 Vice President, Neuroscience, CV Therapeutics and Gilead Sciences, Palo Alto
- 2003-2014 Editor-in-Chief, Alcoholism: Clinical and Experimental Research
- 2009-pres Senior Advisor, Gilead sciences, Foster City, California
- 2015-2017 Acting President and Chief Executive Officer, Amygdala Neurosciences, Palo Alto
- 2017-pres Chief Scientific Advisor, Amygdala Neurosciences, Inc.

Medical Licensure:

Illinois, No. 36-38184

November 28, 1962

Massachusetts, No. 29901

May 4, 1967

California, No. G 13931

September 18, 1967

Certification:

National Board of Medical Examiners No. 64835, July 1, 1962

Amer. Board of Psychiatry and Neurology, Inc. Certified in Neurology No.16005, Feb., 1977

Memberships:

Alpha Omega Alpha
American Academy of Neurology
American Association for the Advancement of Science (Fellow)
American College of Neuropsychopharmacology
American Neurological Association
American Society for Neurochemistry
American Society of Biological Chemists
American Society for Clinical Investigation
Association of American Physicians
The California Academy of Medicine
The Dana Alliance for Brain Initiatives
International Society for Biological Research on Alcoholism
International Society for Developmental Neuroscience
Research Society on Alcoholism
San Francisco Medical Society
San Francisco Neurological Society
Sigma Xi
Society for Neuroscience
Western Association of Physicians

Professional Activity:

Amygdala Neurosciences, Inc. Palo Alto, CA

2015 President and Chief Executive Officer
2015-pres Chief Scientific Officer

Gilead Sciences, Foster City, CA

2009-pres Senior Advisor
2009-2015 GS-6657 Project Team (Member)

CV Therapeutics, Palo Alto, CA

2005-2009 Vice-President Neurosciences
CEO Scientific Research Committee (Member)
Research Management Committee (Member)
Exploratory Research Committee (Chair)
CVT/PTC Joint Management and Research Committees (Member)
IACUC and AAALAC (Institution Official)

University Service

1969 Committee to Develop a Neurobiology Program

- 1969-2005 Faculty Appointment, Recruitment, Promotion and Departmental Chairman Review Committees (Chairman or Member)
- 1971 Committee to Draft a Neurobiology Program in the New School of Human Biology
- 1972 Medical Advisory Board, Mass Spectrometry Unit, Space Sciences Laboratory, University of California at Berkeley
- 1977 Subcommittee on Curriculum Concerned with Aging
- 1977 Chancellor's Committee on Aging
- 1981-1983 Policy Advisory Committee to the Bodega Marine Laboratory, Univ. of California
- 1984 Dean's Committee for Planning a UCSF Magnetic Resonance Spectroscopy Facility
- 1985-1987 Governing Board of the UCSF Program in *In Vivo* Magnetic Resonance Spectroscopy
- 1985-1991 Chancellor's Distinguished Lectureship Committee
- 1992-1995 Member, Academic Senate Committee on Planning and Budget, UCSF
- 1994-1995 Chairman, Joint Academic Senate-Administration Committee on Indirect Cost
- 1994-1998 Co-Chairman, Academic Program Planning Committee for SFGH
- 1995 Member, Chancellor's Planning Retreat
- 1995-2000 Member, Advisory Committee, San Francisco General Hospital Foundation
- 1996-1997 Member, Joint Academic Senate-Administration Committee on Indirect Cost
- 2001-2002 Member, Stewardship Review Committee on Dr. Craig Van Dyke, Director, Langley Porter Psychiatric Institute
- 2002-2004 Member, Stewardship Review Committee on Dr. Shaun Coughlin, Director, Cardiovascular Research Institute
- 2004-2005 Member, Stewardship Review Committee on Dr. Stanley Prusiner, Director, Institute for Neurodegenerative Diseases

School of Medicine Service

- 1970-1984 Medical Specialist Pathway Curriculum Committee
- 1970-1984 Medical Specialist Medical Student Advisor
- 1973-1975 Evaluation and Budget Subcommittee, Research and Education Committee, Veterans Administration Hospital, San Francisco
- 1979-1980 School of Medicine Committee on Admissions
- 1980-1982 Advisory Committee to the General Clinical Research Center at UC Hospital
- 1981-1982 Chairman, Ad Hoc Committee to Review the Stewardship of the Chair of the Department of Psychiatry, UCSF

- 1982-1992 Advisory Committee to The Clinical Study Center at San Francisco General Hospital
- 1985 Ad Hoc Search Committee for Chair, Dept. of Psychiatry, Director, Langley Porter Psychiatric Institute, UCSF
- 1985-1987 School of Medicine Committee on Admissions
- 1986-1987 Chairman, Ad Hoc Search Committee for Chair, Department of Pediatrics, UCSF
- 1986-1991 Chairman, Advisory Committee to the Clinical Study Center at San Francisco General Hospital
- 1986-1998 Chairman, Scientific Advisory Board of the Lung Biology Center, UCSF
- 1987-1993 Dean's Advisory Council, University of California, San Francisco
- 1987-1988 Committee on Curriculum and Education Policy, UCSF
- 1988 Ad Hoc Search Committee for Dean of the School of Medicine, UCSF
- 1988 Search Committee for Chief of Child Psychiatry
- 1989 Search Committee for Research Professor in the Dept. of Neurosurgery, SFGH
- 1991-1998 Dean's Advisory Committee, SFGH
- 1991 Chairman, Special Dean's Committee to Evaluate the General Clinical Research Center at SFGH
- 1991 Search Committee for Chairman of the Department of Pharmacology, UCSF
- 1991 School of Medicine Faculty Leadership Retreat
- 1992-1998 Member, SFGH Research Committee, University of California, San Francisco (Chairman, 1992-1995)
- 1992-1999 Member (ex officio), SFGH Basic Research Subcommittee
- 1992-1999 Member (ex officio), SFGH General Clinical Research Center Subcommittee
- 1992-1999 Member (ex officio), SFGH Animal Care Facility Subcommittee
- 1993-1994 Search Committee for Associate Director of General Clinical Research Center, SFGH, University of California, San Francisco
- 1995-1998 Member, Library Committee, SFGH
- 1998 Member, Internal Advisory Committee, Sandler Neurogenetics Center, UCSF
- 2000 Member, Scientific Advisory Board, Alcohol Research Program, VA Hospital
- 2004 Hospital Replacement Task Force Focus Group

Department Service

- 1969-1975 Neurology House staff Lecture Coordinator
- 1980-2005 Intradepartmental Faculty Review Committees (Member or Chairman)

- 1981-1984 Search Committees for Faculty Appointments in Neurology at the VA Hospital
- 1985-1987 Joint Neurobiology-Neurology Seminar Series Committee
- 1990 Judicial Review Committee, Medical Staff Office, SFGH
- 1992 Neurology Resident Selection Committee, UCSF
- 1994 Neurology Resident Selection Committee, UCSF
- 1994-1996 Co-Chair, Search Committee for Chief of Service in Neurology, SFGH
- 1994-2003 Member, Department of Neurology Executive Committee
- 1999-2001 Member, Department of Neurology Departmental Review Committee on Animal Research
- 2002-2005 Chair, Search Committee for Neurology Faculty at the Veterans Affairs Medical Center, UCSF
- 2005-2007 Member, External Advisory Board, UCSF Prostate Cancer SPORE Award

National Service

- 1972-1988 Medical Advisory Board, Myasthenia Gravis Foundation of California
- 1974-1988 Medical Advisory Board, Los Angeles Chapter, Myasthenia Gravis Foundation of California, Inc. (Chairman, 1977-1983)
- 1976-1980 Veterans Admin. Medical Research Career Development Committee, Washington, DC
- 1976-1993 Basil O'Connor Starter Research Advisory Committee, March of Dimes -- Birth Defects Foundation
- 1978-1983 Social and Behavioral Sciences Research Advisory Committee, March of Dimes -- Birth Defects Foundation
- 1978 Special Study Section, National Institute on Aging, National Institutes of Health
- 1978-1979 Examiner, American Board of Psychiatry and Neurology
- 1979 Geriatric Medicine Academic Award Committee, National Institute on Aging, National Institutes of Health
- 1979 Special Research Manpower Development Work Group, National Advisory Council on Aging, National Institutes of Health
- 1980-1983 Scientific Advisory Board, Dystonia Medical Research Foundation
- 1980 Special Study Section, NINCDS, National Institutes of Health
- 1980-1986 National Science Council of National Huntington's Disease Association
- 1981-1983 Program Committee of the American Society of Neurochemistry
- 1981-1983 Counselor, American Neurological Association
- 1982 Special Study Section on Alcohol and Aging, National Institute on Alcohol Abuse and Alcoholism
- 1982-1986 Scientific Advisory Board, Hereditary Disease Foundation, (Chairman, 1983)

- 1982-1985 Alcohol Biomedical Research Review Committee, National Institute on Alcohol Abuse and Alcoholism
- 1982-1984 Membership Committee, American Neurological Association
- 1983-1990 Clinical Research Advisory Committee, March of Dimes - Birth Defects Foundation
- 1985 Chairman, Special Alcohol Biomedical Research Review Committee, National Institute on Alcohol Abuse and Alcoholism
- 1985-1987 Membership Committee, American Neurological Association
- 1986-1992 Medical Advisory Council, Alcoholic Beverage Medical Research Foundation
- 1987 Ad Hoc Scientific Advisory Board on Neurosciences, National Institute on Alcohol Abuse and Alcoholism
- 1987 Consultant, National Advisory Council, National Institute on Alcohol Abuse and Alcoholism
- 1989 Consultant, Office of the Director, National Institute on Alcohol Abuse and Alcoholism
- 1990 Consultant, Dana Foundation, New York
- 1990-1994 Member, Board of Directors, Research Society on Alcoholism
- 1991 Special Gerontology Review Group, National Institute on Aging
- 1991 Invited Member, Committee to select the H. Russell Smith Award for Innovation in Pediatric Biomedical Research, Children's Hospital Los Angeles, University of Southern California
- 1992-1996 Member, National Advisory Council on Alcohol Abuse and Alcoholism, NIAAA
- 1992-1993 Member, Board of Trustees, Alcoholic Beverage Medical Research Foundation
- 1993 Invited Representative from NIAAA, Advisory Committee to the Director, NIH
- 1993-2000 Chairman, Medical Advisory Council, Alcoholic Beverage Medical Research Foundation
- 1993-1995 Vice-President, Research Society on Alcoholism
- 1993-1995 Chairman, Subcommittee on Peer Review, National Advisory Council on Alcohol Abuse and Alcoholism, NIAAA, NIH
- 1995-1997 President, Research Society on Alcoholism
- 1995-1998 Basil O'Connor Starter Research Advisory Committee, March of Dimes Birth Defects Foundation
- 1996 Invited Testimony, House Appropriations Committee, US Congress, Washington, DC
- 1996 Member, Molecular Medicine Society
- 1996-present Member, External Advisory Board, University of North Carolina Bowles Center for Alcohol Studies, Chapel Hill, NC
- 1997-1999 Member, Board of Directors, Research Society on Alcoholism

- 1998 Reviewer, NIAAA Neuroscience and Behavior Research Portfolio, Washington, D.C.
- 1998 Fellow, American Association for the Advancement of Science
- 1998 Educator, "High Tech/High Touch in the New Economy", Young President's Organization, University for Presidents
- 1999-pres Member, Scientific Advisory Board of the Waggoner Center for Alcohol and Addiction Research, Austin, TX
- 1999-2004 Member, Alumni Council of the Medical and Biological Sciences Alumni Assn., University of Chicago, Chicago, IL
- 2000-2005 Member, Board of Trustees, Alcoholic Beverage Medical Research Foundation
- 2002-2004 Vice Chairman, Board of Trustees, Alcoholic Beverage Medical Research Foundation
- 2004-2005 Chairman, Board of Trustees, Alcoholic Beverage Medical Research Foundation
- 2005 Extramural Advisory Board, Medications Development, National Institutes on Alcohol Abuse and Alcoholism, National Institutes of Health, Bethesda, MD

Editorial Service

- 1977-1986 Editorial Board, Journal of Neurochemistry
- 1986 Editor, Report of the 1986 Ad Hoc Scientific Advisory Board on AlcoholRelated Medical Problems: Research Needs and Opportunities. National Institute on Alcohol Abuse and Alcoholism
- 1989-1994 NIAAA Editorial Board, Alcohol Health & Research World
- 1994-present Editorial Board, Addiction Biology
- 1995-2003 Editorial Board, Alcoholism: Clinical and Experimental Research
- 2003-2014 Editor-in-Chief, Alcoholism: Clinical and Experimental Research

Community Service

- 1979-1983 Board of Directors, Berkeley Shakespeare Festival (Treasurer, 1980-1983)
- 1980-1986 Research Advisor, California Chapter Committee to Combat Huntington's Disease, Inc.
- 1984-1995 Secretary-Treasurer, California Academy of Medicine
- 1989-1997 Board of Advisors, Berkeley Opera Company
- 1995-1996 President, California Academy of Medicine
- 1996-1998 Member, Executive Board, California Academy of Medicine

Teaching:

My primary teaching responsibilities were at UCSF and the Gallo Center.

Graduate Students

1985-1988 Daniel Castillo, Neurobiology
1976-1982 Geoffrey Davis, Immunology
1986-1992 Greg Gayer, Pharmacology
1994-1998 Cassandra Vieten, Psychology

Postdoctoral Fellows (Alphabetical) 2000-2004

Maria Pia Arolfo, Ph.D.
1993-1995 Kiyofumi Asai, M.D., Ph.D.
1998-2000 Orna Asher, Ph.D.
2002-2005 Asma Asyyed, M.D.
1979-1982 Alice Au, Ph.D.
1990-1991 Manish Bhandari (Postgraduate Research Molecular Biologist)
1995-1998 Peggy Bavin, Ph.D.
1976-1978 Joel Bornstein, Ph.D.
2003- 2007 M. Scott Bowers, Ph.D.
1990-1993 Pius Brzoska, Ph.D.
1994-1998 Hui-Min Chen, Ph.D.
1994-1997 Anastasia Constantinescu, Ph.D.
1992-1995 Imogen Coe, Ph.D.
1994-1998 Douglas Dohrman, Ph.D.
1990-1991 Roopa Ghirnikar, Ph.D.
1998-2000 Masahisa Handa, Ph.D.
2003-2005 Yuichiro Inoue, M.D.
1990-1993 Akira Ishii, M.D., Ph.D.
1995-1997 Ichiro Isobe, M.D., Ph.D.
1990-1991 Sanjay Jain (Postgraduate Research Biochemist)
2000-2001 Allison Kitten, Ph.D.
1979-1982 Gilbert Magilen, Ph.D.
2000-2003 William Mailliard, Ph.D.
1986-1988 Laura Nagy, Ph.D.
1998-1999 David O'Connell, Ph.D.
2003-2005 Jemma Richards, Ph.D.
1989-1993 Mohan Sapru, Ph.D.
1980 Rebecca Thomas, Ph.D.
2000-2003 Hideki Tsuiki, Ph.D.
2004-2006 Takashi Ueda, Ph.D.
1995-1997 Zhiliang Wu, Ph.D.
1993-1997 Lina Yao, M.D., Ph.D.
1993-1997 Corinne Yoshihara, Ph.D.

Neurology Fellows (Former)

Ed Chaplin, M.D.
Michael Charness, M.D.
Gary Franklin, M.D.
Gary Goldstein, M.D., Ph.D.
David Greenberg, M.D., Ph.D.
Thomas Koch, M.D.
Richard Lowenthal, M.D.
Harry Openshaw, M.D.
George York, M.D.

Visiting Scientists (Former)

Alfred Goldberg, PhD., Professor of Cell Biology, Harvard Medical School
Robert E. Beyer, PhD., Professor of Biology, University of Michigan
Christer Alling, M.D., Ph.D., Head, Section of Medical Neurochemistry, Lund University, Sweden
John Crabbe, Ph.D., Professor, Dept. of Behavioral Neuroscience, Oregon Health Sciences University
Sarah Fuchs, Ph.D., Professor, Dept. of Chemical Immunology, Weizmann Institute of Science, Israel
Akira Ishii, M.D., Ph.D., Assoc. Professor, Dept. of Legal Medicine and Bioethics, Nagoya Univ. Post Graduate School of Medicine, Japan
Moshe Souroujon, Ph.D., Director, Central Hematology and Coagulation Laboratory, Projinin Central Laboratories, Israel

Visiting Professor:

April, 1967	Department of Pediatrics, Good Samaritan Hospital, Cincinnati, Ohio
June, 1970	Department of Pediatrics, Division of Neonatology, University of Washington, Seattle, Washington
July, 1971	Department of Physiology, Harvard Medical School, Boston, Massachusetts
Oct, 1974	Hospital de Ninos, Servicio de Neurologia, Buenos Aires, Argentina
Aug, 1975	International Laboratory of Brain Research, University of Belgrade, Kotor, Yugoslavia
1975-1976	Division of Membrane Biology, Imperial Cancer Research Fund, London, England
Dec, 1978	Departments of Neurology and Pediatrics, Northwestern University School of Medicine, Chicago, Illinois
Oct, 1979	Neurosciences Program, University of Wisconsin, Madison, Wisconsin
April, 1985	Instituto de Investigaciones Citologicas, de la Caja de Ahorros de Valencia, Valencia, Spain

Oct, 1985 Department of Neurology, Mayo Clinic, Rochester, Minnesota
May, 1989 Department of Medicine, Hennepin County Medical Center,
Minneapolis, Minnesota
Nov, 1989 Department of Pathology, Thomas Jefferson Univ. Philadelphia,
Pennsylvania
March, 1991 Swank Visiting Professor, Department of Neurology, Oregon Health
Sciences University, Portland, Oregon
April, 1991 Department of Medicine, University of Chicago, Chicago, Illinois
Oct, 1995 Department of Neurology, Northwestern University School of Medicine,
Evanston, Illinois.
April, 1997 Dept. of Pathology, Anatomy and Cell Biology, Thomas Jefferson
University Medical College, Philadelphia, Pennsylvania
April, 1997 Dept. Of Bioregulation Research, Nagoya City University, Nagoya,
Japan
April, 1997 Dept. of Neurology, Kyoto Prefectural University School of Medicine,
Kyoto, Japan
April, 1998 Dept. of Anatomy, Pathology and Cell Biology, Thomas Jefferson
University, Philadelphia, Pennsylvania
Mar, 1999 Bowles Center for Alcohol Studies, University of North Carolina, Chapel
Hill, NC
Nov, 1999 Department of Pharmacology, University of Texas, Austin, Texas.
Nov, 1999 Waggoner Center for Alcohol and Addiction Research. University of
Texas, Austin, Texas.
Jan, 2000 Wellcome Visiting Professor in the Basic Medical Sciences, Burroughs
Wellcome Fund, Medical University of South Carolina College of
Medicine.
June, 2003 Department of Pharmacology and Therapeutics, University of Calgary,
Calgary, Alberta, Canada.
Mar, 2004 Department of Pharmacology, University of Washington, Seattle,
Washington.
Mar, 2010 Department Pharmacology, Univ Texas, Austin TX
May, 2010 Department of Psychiatry, Duke University, Durham, NC

Research and Creative Activity

Journal Articles:

1. **DIAMOND I**, Aquino TI: Myoglobinuria following unilateral status epilepticus and ipsilateral rhabdomyolysis; a clinicopathological report. *N Engl J Med* 272:834-837, 1965.
2. Schmid R, **DIAMOND I**, Hammaker L, Gunderson CB: Interaction of bilirubin with albumin. *Nature* (London) 206:1041-1043, 1965.
3. **DIAMOND I**, Schmid R: The pathogenesis of bilirubin encephalopathy; experimental models in newborn and adult animals. *Trans Am Neurol Assoc* 90:38-41, 1965.
4. **DIAMOND I**, Schmid R: Experimental bilirubin encephalopathy. The mode of entry of bilirubin-14C into the central nervous system. *J Clin Invest* 45:678-689, 1966.
5. **DIAMOND I**: Bilirubin encephalopathy: Experimental models in newborn and adult animals. *Proc Inst Med Chic* 26:47-48, 1966.
6. **DIAMOND I**: Kernicterus: Revised concepts of pathogenesis and management. *Pediatrics* 38:539-546, 1966.
7. **DIAMOND I**: Immaturity, the blood-brain barrier, bilirubinemia, and kernicterus. (Reply to a letter by Dr. L.F. Belter). *Pediatrics* 39:463-464, 1967.
8. **DIAMOND I**, Schmid R: Oxidative phosphorylation in experimental bilirubin encephalopathy. *Science* 155:1288-1289, 1967.
9. **DIAMOND I**, Schmid R: Neonatal hyperbilirubinemia and kernicterus; experimental support for treatment by exposure to visible light. *Arch Neurol* 18:699-702, 1968.
10. **DIAMOND I**, Kennedy EP: A sensitive radiochemical assay for choline acetylase. *Anal Biochem* 24:90-95, 1968.
11. **DIAMOND I**, Lucey J, Schmid R: Prevention of hyperbilirubinemia and kernicterus by exposure to light; studies in newborn guinea pigs and premature infants. *Trans Am Neurol Assoc* 92:70-74, 1968.
12. **DIAMOND I**, Kennedy EP: Carrier-mediated transport of choline into synaptic nerve endings. *J Biol Chem* 244:3258-3263, 1969.
13. **DIAMOND I**: Bilirubin binding and kernicterus. *Adv Pediatr* 16:99-119, 1969.
14. **DIAMOND I**: Studies on the neurotoxicity of bilirubin and the distribution of its derivatives. *Birth Defects: Original Article Series* 6:124-127, 1970.
15. **DIAMOND I**: Choline metabolism in brain: The role of choline transport and the effects of phenobarbital. *Arch Neurol* 24:333-339, 1971.
16. **DIAMOND I**, Goldberg AL: Uptake and release of ⁴⁵calcium by microsomes, synaptosomes, and synaptic vesicles. *J Neurochem* 18:1419-1431, 1971.

17. **DIAMOND I**, Milfay D: Uptake of [³H-methyl] choline by microsomal, synaptosomal, mitochondrial and synaptic vesicle fractions of rat brain: The effects of hemicholinium. *J Neurochem* 19:1899-1902, 1972.
18. Roost KT, Pimstone NR, **DIAMOND I**, Schmid R: The formation of CSF xanthochromia after subarachnoid hemorrhage: Enzymatic conversion of hemoglobin to bilirubin by the arachnoid and choroid plexus. *Neurology* 22:973-977, 1972.
19. **DIAMOND I**, Granelli SG, McDonagh AF, Nielsen S, Wilson CG, Jaenicke R: Photodynamic therapy of malignant tumours. *Lancet* II:1175-1177, 1972.
20. Yatsu FM, **DIAMOND I**, Graziano C, Lindquist P: Experimental brain ischemia: Protection from irreversible damage with a rapid-acting barbiturate (Methohexital). *Stroke* 3:726-732, 1972.
21. **DIAMOND I**, Fishman RA: High-affinity transport of 2-deoxy-glucose in isolated synaptic nerve endings. *Nature* 242:122-123, 1973.
22. **DIAMOND I**, Fishman RA: High-affinity transport and phosphorylation of 2-deoxy-D-glucose in synaptosomes. *J Neurochem* 20:1533-1542, 1973.
23. **DIAMOND I**, Fishman RA: Preferential phosphorylation of recently transported 2-deoxy-D-glucose in isolated nerve endings. *Brain Res* 57:239-243, 1973.
24. **DIAMOND I**, Fishman RA: Development of glucose oxidation in isolated nerve endings. *Nature* 243:519-520, 1973.
25. **DIAMOND I**, Fishman RA: Development of Na⁺-stimulated glucose oxidation in synaptosomes. *J Neurochem* 21:1043-1050, 1973.
26. **DIAMOND I**, Franklin GM, Milfay D: The relationship of choline acetyltransferase activity at the neuromuscular junction to changes in muscle mass and function. *J Physiol (London)* 236:247-257, 1974.
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164. **DIAMOND I**: Alcohol neurotoxicity. In: Diseases of the Nervous System (2nd ed). Asbury AK, McKhann GM, McDonald WI (eds). WB Saunders Co, Philadelphia, 1992, pp 1259-1273.
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169. Gordon AS and **DIAMOND I**: Adenosine mediates the effects of ethanol on the cAMP signal transduction system. In: Proceedings of the 6th International Society for Biomedical Research on Alcoholism. Pergamon Press, Oxford, 1993, pp. 437-441.
170. Gordon AS, Sapru MK, Krauss S, **DIAMOND I**: Nucleoside transport and ethanol-induced heterologous desensitization. In: Alcohol, Cell Membranes and Signal Transduction in Brain. (Alling C, **DIAMOND I**, Leslie SW, Sun GY and Wood WG, eds.) Plenum Press, New York, 1993, pp 195-203.
171. Alling C, **DIAMOND I**, Leslie SW, Sun GY and Wood WG: In: Alcohol, Cell Membranes and Signal Transduction in Brain. Plenum Press, New York, 1993.
172. **DIAMOND I** and Gordon AS: The role of adenosine in mediating cellular and molecular responses to ethanol. In: Toward A Molecular Basis of Alcohol Use and Abuse, 86th Nobel Symposium. Jansson B, Jornvall H, Rydberg U, Terenius L, Vallee BL (eds) Karolinska Institut, Basel, Switzerland, 1994, pp 175-184.
173. **DIAMOND I**: What's new in alcohol research: genes and cells. In: Bulletin of the Society of Medical Friends of Wine. Vol 37, March, 1995.
174. **DIAMOND I**: Alcoholism and alcohol abuse. In: Cecil's Textbook of Medicine, 20th Edition. Bennett JC and Plum F (eds). WB Saunders Co, Philadelphia, 1996, pp 47-49.
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176. Miles MF and **DIAMOND I**: Neurological complications of alcoholism and alcohol abuse. In: Systemic Diseases Part II. Handbook of Clinical Neurology, Vol 70. Goetz CG and Aminoff MJ (eds). Elsevier, Amsterdam, 1999. pp 339-365.
177. Dohrman DP, Yao L, **DIAMOND I**, Gordon AS: Ethanol-induced translocation of protein kinases: A possible mechanism underlying ethanol-induced behaviors. In: Ethanol and Intracellular Signaling: From Molecules to Behavior. Hoek J, Gordon A, Zakhari S (eds). NIAAA Research Monograph 35, NIH. Pub. No. 004579, Bethesda, MD, 2000.
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180. **DIAMOND I** and McIntire SL: Alcohol neurotoxicity. In: Diseases of the Nervous System, 3rd Edition. Asbury AK, McKhann G, McDonald WI, Goadsby PJ and McArthur JC (eds). WB Saunders Co., Philadelphia, pp.1814-1826, 2002.
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182. **DIAMOND I** and Yao L: The Synergistic role of Adenosine A2a Receptors in Alcoholism and Addiction: From Cell Biology to Behavior. In: Cellular Biology of Addiction. Madras B, Von Zastrow M, Colvis C, Rutter J, Shurtleff D and Pollock J. (eds). Cold Spring Harbor Laboratory Press, New York (2006).

Patents

- US Patent # 6,255,057: "Detection of Cellular Exposure to Ethanol" (Awarded July 3, 2001)
- US Patent # 5,069,895: "Methods for the Treatment of Alcohol Intoxication and Dependence" (Awarded Dec 3, 1991)
- US Patent Application: "Isoflavone Derivatives as ALDH-2 Inhibitors" (Filed February 13, 2009)
- US Patent Application: "Methods for Treating Pain" (Filed February 6, 2009)
- US Patent Application: "ALDH-2 Inhibitors in the Treatment of Psychiatric Disorders" (Filed November 6, 2008)
- US Patent Application: "Synergy of Dopamine D2 and Adenosine A2 Receptors Activates PKA Signaling via Beta/Gamma Dimers" (Filed September 23, 2005)
- US Patent Application: "Antagonizing an Adenosine A2A Receptor to Ameliorate one or more components of Addictive Behavior" (Filed June 14, 2005)
- US Patent Application: "Detection of Cellular Exposure to Addictive Drugs" (Filed May12, 2000)
- US Patent Application: "Modulating Cooperative Activity of Dopamine D1 and D2 Receptors to Mitigate Substance Abuse."

Lectures

1969

- Invited Lecture, Northern California Chapter of the American Academy of Pediatrics, Yosemite, CA
- Invited Lecture and Participant, Symposium on Bilirubin Metabolism in the Newborn, National Foundation – March of Dimes, Chicago, IL
- Invited Lecture, Fetus and the Newborn Course, American Academy of Pediatrics, San Francisco, CA
- Invited Lecture, Continuing Education in Health Sciences, Department of Pediatrics, UCSF, San Francisco, CA

1970

- Invited Lecture, Annual Meeting of the Myasthenia Gravis Foundation of California, Los Angeles, CA
- Invited Speaker, Grand Rounds, Department of Pediatrics, Kaiser Foundation Hospital, Walnut Creek, CA
- Invited Lecture, Continuing Education in Health Sciences, Department of Pediatrics, UCSF, San Francisco, CA
- Invited Lecture, Continuing Education in Health Sciences, Acute Care in Pediatrics, UCSF, San Francisco, CA
- Invited Lecture, Continuing Education in Health Sciences, Pediatric Neurology, UCSF, San Francisco, CA
- Invited Lecture, Department of Pediatrics, Division of Neonatology, University of Washington, Seattle, WA
- Oct. Invited Lecture, Present Concepts in Internal Medicine, Letterman General Hospital, San Francisco, CA
- Oct. Invited Lecture, Pediatric Neurology Course, American Academy of Pediatrics, San Francisco, CA

1971

- 3/25 Invited Lecture, Department of Physiology, University of California, Berkeley, CA
- 4/28 Invited Lecture, Department of Physiology, Harvard Medical School, Boston, MA
- 6/12 Invited Lecture, Advances in Pediatrics, UCSF, San Francisco, CA
- 9/23- Guest Faculty Member and Invited Lectures, Department of Pediatrics Newborn
- 9/24 Symposium, Duke University School of Medicine, Durham, NC
- Oct. Invited Participant, NINDS Conference for Planning Cooperative Studies of Late Effects of Iron Deficiency in the Brain, San Francisco, CA
- 10/26 Invited Lecture, Bay Area Neonatology Club, San Francisco, CA

1972

- Mar. Invited Lecture, Therapy in Neurology, UCSF, San Francisco, CA
- Apr. Invited Discussant, American Academy of Neurology, St. Louis, MO
- May Invited Lecture, Advances in Pediatrics, UCSF, San Francisco, CA
- 9/22 Invited Lecture, Neurological Sciences Colloquium, Stanford University, Stanford, CA

10/11 Invited Speaker, Grand Rounds, Michael Reese Hospital, Chicago, IL

1973

3/23 Invited Speaker, Grand Rounds, Departments of Neurology, Neurosurgery and Pediatrics, Stanford University, Stanford, CA

Mar. Invited Lecture, Recent Advances in Neurology, UCSF, San Francisco, CA

Mar. Invited Lecture, Department of Physiology, University of California, Berkeley, CA

Apr. Invited Discussant, American Academy of Neurology, Boston, MA

6/15 Invited Lecture and Participant, American Society for Photobiology, Sarasota, FL

10/23 Invited Lecture, American Academy of Pediatrics, Chicago, IL

12/8 Invited Lecture, Association for Research in Nervous and Mental Disease, New York, NY

1974

Apr. Invited Lecture, Neurochemistry Special Course, American Academy of Neurology, San Francisco, CA

Apr. Invited Participant, National Research Council, Conference in Photobiology, Washington, DC

Oct. Invited Organizer and Participant, XIV International Congress of Pediatrics, Buenos Aires, Argentina

10/3 Invited Lectures, Sociedad Argentina de Neurologia Infantil, Buenos Aires, Argentina

1975

Invited Lecture, Imperial Cancer Research Fund, London, England

2/24 Invited Lecture, Department of Neurology, Stanford University, Stanford, CA

Apr. Invited Lecture, Neurochemistry Special Course, American Academy of Neurology, Bal Harbour, FL

May Invited Lecture, Advances in Pediatrics, UCSF, San Francisco, CA

Jun. Invited Participant, Josiah Macy Foundation, Conference on Liver Disease in Infancy and Childhood, Paris, France

1976

Jan. Invited Lecture, Recent Advances in Neurology, UCSF, San Francisco, CA

Apr. Invited Lecture, Neurochemistry Special Course, American Academy of Neurology, Toronto, Canada

Nov. Invited Lecture, Current Aspects of Mental Retardation, UCSF, San Francisco, CA

1977

Apr. Invited Lecture, Special Course in Neurochemistry, American Academy of Neurology, Atlanta, GA

5/16 Invited Lecture, Department of Chemistry, University of California, Berkeley, CA

Sept. Invited Lecture, Departments of Neurology and Pediatrics, Columbia University School of Medicine, New York, NY

1978

- Invited Discussant, American Neurological Association, Washington, DC
Jan. Invited Lecture, Advances in Neurology, UCSF, San Francisco, CA
Apr. Invited Lecture, Neurochemistry Special Course, American Academy of Neurology, Los Angeles, CA
4/6-7 Invited Participant, NIH Symposium on Autosomal Dominant Neurological Disorders, Bethesda, MD
Sept. Invited Lecturer and Participant, Dystonia Medical Research Foundation, Second Dystonia Workshop, Los Angeles, CA
Dec. Grand Rounds, Department of Neurology, Northwestern University School of Medicine, Chicago, IL
Dec. Grand Rounds, Department of Pediatrics, Northwestern University School of Medicine, Chicago, IL

1979

- Invited Lecture, Department of Pharmacology, UCSF, San Francisco, CA
May Invited Lecture and Participant, First International Colloquium on Receptors, Neurotransmitters and Peptide Hormones, Capri, Italy
5/22 Invited Lecture, Clinical Neurologica, Università di Firenze, Florence, Italy
Sept. Invited Organizer and Chairman, Symposium on "Role of Protein Phosphorylation in Synaptic Function", International Society for Neurochemistry, Jerusalem, Israel
10/1 Invited Lecture, Neurosciences Program, University of Wisconsin, Madison, WI
10/6 Invited Presentations, Central California Psychiatric Society, Movement Disorders, Fresno, CA
10/16 Invited Lecture, Laboratory of Chemical Biodynamics, University of California, Berkeley, CA
10/31 Invited Lecture, National Institute of Mental Health, Saint Elizabeth's Hospital, Washington, DC
Nov. Invited Co-Chairman, Second Basil O'Connor Starter Research Colloquium, March of Dimes – Birth Defects Foundation, Key Biscayne, FL

1980

- Jan. Invited Lecture, Winter Conference on Brain Research, Keystone, CO
1/10 Invited Lecture, San Jose Hospital, San Jose, CA
Feb. Invited Organizer and Co-Chairman, "Membrane Transport and Neuroreceptors", ICN-UCLA Symposia on Molecular and Cellular Biology, Keystone, CO
Mar. Member, NIH Site Visit Team, University of Minnesota, Minneapolis, MN
3/4 Invited Speaker, Roundtable on Epilepsy, American Society for Neurochemistry, Houston, TX
3/10- Invited Lecture and Participant, Dystonia Medical Research Foundation, Third Dystonia
3/11 Workshop, Vancouver, Canada
4/25 Invited Speaker, Movement Disorders – Update 1980, Napa State Hospital, Napa, CA
5/1 Paper Presentation, American Academy of Neurology, New Orleans, LA

- 5/1 Invited Chairman, Session on Neurobiology, American Academy of Neurology, New Orleans, LA
- 5/2 Invited Discussant, American Academy of Neurology, New Orleans, LA
- 6/2- Invited Lecture and Participant, Diseases of the Motor Unit, Sixth International Conference
- 6/7 of the Muscular Dystrophy Association, Key Biscayne, FL
- 6/23- Invited Lecture and Participant, Huntington's Disease Symposium, University of Minnesota, Minneapolis, MN
- 6/24 Invited Faculty Participant, Movement Disorders Update, Atascadero State Hospital, Atascadero, CA
- 10/17 Invited Speaker, International Symposium on Status Epilepticus, University of California, Los Angeles, CA
- 11/17- Invited Speaker, International Symposium on Status Epilepticus, University of California, Los Angeles, CA
- 11/18 Invited Speaker, International Symposium on Status Epilepticus, University of California, Los Angeles, CA

1981

- 1/10- Invited Speaker and Participant, New Approach to Huntington's Disease, Hereditary Disease Foundation, Marina Del Rey, CA
- 1/11 Disease Foundation, Marina Del Rey, CA
- Feb. Co-organizer, Neurology for the Non-Neurologist, San Francisco Institute for Continuing Education, Aspen, CO
- Mar. Member, NIH Site Visit Team, University of Georgia, Augusta, GA
- 4/28 Invited Lecture, Course on Clinical Neurochemistry, American Academy of Neurology, Toronto, Canada
- 4/30 Invited Discussant, American Academy of Neurology, Toronto, Canada
- 5/16 Invited Speaker, Committee to Combat Huntington's Disease, San Francisco, CA
- 6/13- Invited Lecture and Participant, Recent Advances in Neurobiology, Hereditary Disease Foundation and State of California, La Jolla, CA
- 6/14 Foundation and State of California, La Jolla, CA
- 6/20- Invited Lecture and Participant, Mechanisms Underlying Complications of Chronic Neurologic and Levodopa Therapy, Good Samaritan Hospital and the University of Oregon Medical School, Portland, OR
- 6/23 Neurologic and Levodopa Therapy, Good Samaritan Hospital and the University of Oregon Medical School, Portland, OR
- 9/25 Invited Lecture, Department of Pharmacology, Kyoto University, Kyoto, Japan
- 9/29 Invited Lecture, Institute for Developmental Research, Kasugai, Nagoya, Japan
- 10/20 Chairman, Session on Cholinergic Receptors, Society for Neuroscience, Los Angeles, CA
- 12/18 Invited Lecture, American College of Neuropsychopharmacology, San Diego, CA

1982

- 1/20 Grand Rounds, Department of Medicine, UCSF, San Francisco, CA
- 4/27 Invited Lecture, Course on Clinical Neurochemistry, American Academy of Neurology, Washington, DC
- 4/29 Chairman, Neurochemistry Session, American Academy of Neurology, Washington DC
- 5/18 Invited Lecture, Department of Physiology and Biophysics, College of Medicine, University of Illinois, Chicago, IL

- 5/20 Invited Lecture, Neurology Grand Rounds, Toronto Western Hospital, Toronto, Canada
8/31 Guest Faculty, Movement Disorders Update 1982, Camarillo State Hospital, Camarillo, CA
9/11 Guest Faculty, Movement Disorders Update 1982, Department of Psychiatry, Naval Medical Center, San Diego, CA
11/4 Invited Presentation, Wine Institute of California, San Francisco, CA
12/1 Invited Lecture, Gladstone Foundation Lecture Series, San Francisco, CA

1983

- 2/10 Invited Lecture, Recent Advances in Neurology, UCSF, San Francisco, CA
3/22 Chairman and Invited Lecture, American Society for Neurochemistry, Honolulu, HI
4/29 Invited Chairman, Section on Neuropeptides, American Academy of Neurology, San Diego, CA
6/1 Invited Lecture, Grand Rounds, Department of Neurology, Stanford University, Stanford, CA
6/15 Invited Lecture, Brown Bag Tours, University of California, San Francisco, CA

1984

- 11/20 Invited Lecture, Grand Rounds, Department of Medicine, San Francisco General Hospital, San Francisco, CA

1985

- 4/12- Invited Participant, Symposium on Cellular Regulation and Membranes, In Honor of
of
4/14 Eugene P. Kennedy, Woods Hole, MA
4/15 Invited Speaker and Participant, 12th Nestle Nutrition Workshop on Neurobiological Development, Madrid, Spain
4/26 Invited Lecture, Instituto de Investigaciones Citologicas de la Caja de Ahorros de Valencia, Valencia, Spain
5/6 Guest Speaker, "House Calls", Radio Station KQED, San Francisco, CA
5/21 Invited Lecture, Saint Francis Hospital, San Francisco, CA
5/29 Invited Speaker, Research Society on Alcoholism, Charleston, S.C.
6/17 Invited Lecture, Department of Medicine, University of Pittsburgh, Pittsburgh, PA
9/3-6 Invited Session Chair and Participant, 2nd International Workshop on Phosphoproteins in Neuronal Function, Utrecht, The Netherlands
10/10 Invited Lecture, Grand Rounds, Dept. of Medicine, St. Luke's Hospital, San Francisco, CA
10/17 Invited Research Seminar, Dept. of Neurology, Mayo Clinic, Rochester, MN
10/18 Invited Lecture, Grand Rounds, Dept. of Neurology, Mayo Clinic, Rochester, MN
12/7 Invited Speaker, Alumni Association, Univ. of California, San Francisco, CA

1986

- 1/23 Invited Lecture, National Advisory Council on Alcohol Abuse and Alcoholism, NIAAA, Washington, D.C.
2/27 Invited Lecture, Department of Pharmacology, Stanford University, Stanford, CA
3/5 Invited Dinner Speaker, Medical Friends of Wine, San Francisco, CA

- 3/17 Invited Lecturer, Department of Neurology and Alcohol Research Center, Johns Hopkins University, School of Medicine, Baltimore, MD
- 4/1 Invited Lecture, Dept. of Medicine, San Francisco General Hospital, San Francisco, CA
- 4/22 Invited Symposium Organizer/Chairman, Research Society on Alcoholism San Francisco, CA
- 6/4 Invited Lecture, Grand Rounds, Department of Neurology, Stanford University, Stanford, CA
- 4/30 Invited Presentation, NY Academy of Sciences, Conference on Alcohol and the Cell, Philadelphia, PA
- 6/11 Invited Moderator and Presentation, U. of Chicago Medical Alumni Association Scientific Symposium, Chicago, Ill
- 6/12 Invited Research Seminar, Dept. of Neurology, University of Chicago, Chicago, Ill
- 7/24 Faculty Lecture, UCSF Chancellor's Associates, University of California, San Francisco, CA
- 10/2 Invited Lecturer, International Medical Advisory Conference, Ottawa, Canada

1987

- 2/4 Invited Speaker, Gordon Research Conference on Alcohol, Santa Barbara, CA
- 4/26 Invited Speaker, Conference on Alcoholism Research Recent Developments in the Neurosciences for the Clinician, NIAAA, Cleveland, Ohio
- 4/27 Invited Lecture, Department of Neurology, Case-Western Reserve University School of Medicine, Cleveland, Ohio
- 7/17 Invited Speaker, Substance Abuse Grand Rounds, VA Medical Center, San Francisco, CA
- 10/19 Invited Lecture, Neurology Update. Neurobiology and Disease, American Neurological Association, San Francisco, CA

1988

- 2/4 Invited Lecture, Department of Pharmacology and Biochemistry, University of Oregon, Portland, OR
- 2/18 Invited Speaker, Substance Abuse Program, University of California, VA Medical Center, San Francisco, CA
- 3/10 Invited Lecture, Biochemistry Course #100, University of California, San Francisco, CA
- 3/15 Invited Speaker, Molecular/Cellular Biology Research Seminars, San Francisco General Hosp.
- 3/30 Invited Lecture, Dept. of Pharmacology, Johns Hopkins University School of Medicine, Baltimore, MD
- 6/25 Guest Speaker, Symposium on Alcohol Research, Fontanafredda, Italy
- 11/2 Invited Speaker, Second National Conference on Alcohol Abuse and Alcoholism, San Diego, CA
- 11/9 Invited Faculty Lecturer, Dean's Research Seminar Series, University of California, San Francisco, CA

1989

- 2/7 Invited Speaker, "State of the Art" Lecture, Western Society for Pediatric Research, Carmel, CA
- 3/9 Invited Lecture, Grand Rounds, Dept. of Medicine, Univ. of California, San Francisco, CA
- 4/22 Invited Speaker, Pacific Interurban Clinical Club, San Francisco, CA
- 5/ 9 Invited Lecture, Annual Meeting of the American Neuropsychiatric Assn, San Francisco, CA
- 5/ 25 Invited Lecture, Hennepin County Medical Faculty, Minneapolis, MN
- 5/ 26 2nd Annual Medical Neurobiology Lecture, Hennepin County Medical Center, Minneapolis, MN
- 5/ 26 Invited Research Seminar, Dept. of Medicine, Hennepin County Medical Center, Minneapolis, MN
- 6/11 Chairman and Discussant, Symposium on Ethanol and Ion Channels. Research Society on Alcoholism, Beaver Creek, Colorado
- 6/11 Invited Lecture, Research Society on Alcoholism, Beaver Creek, Colorado
- 6/13 Invited Participant and Speaker, Second Investigators Forum on Biological Markers of Alcohol Consumption. NIAAA, Beaver Creek, Colorado
- 9/15 Invited Speaker, Alcohol Research Center, Dept. of Pharmacology, University of Colorado Conference on Neuroadaptive Mechanisms to Ethanol
- 11/27 Invited Lecture, Dept. of Pathology, Thomas Jefferson University, Philadelphia, PA
- 12/5 Invited Lecture, Neurology Research Grand Rounds, Dept. of Neurology, Univ. of California, San Francisco, CA

1990

- 2/5-9 Co-organizer and Invited Speaker, Gordon Conference on Alcohol Research, Oxnard, CA
- 3/1 Invited Lecture, Children's Hospital Oakland Research Institute, Oakland, CA
- 4/23 Invited Speaker, Grand Rounds, Dept. of Laboratory Medicine, Univ. of California, San Francisco, CA
- 5/ 25 Invited Speaker, Stanford Univ. Festschrift for Dr. David Prince
- 10/30 Invited Lecture, Children's Hospital, San Francisco
- 11/5 Invited Lecture, Dept. of Neuroscience and Cell Biology, Robert Wood Johnson Medical School, New Brunswick, NJ
- 11/20 Grand Rounds, Dept. of Neurology, University of California, San Francisco, CA
- 11/29 Invited Lecture, Dept. of Neurology, Cornell Medical School, New York, NY

1991

- 2/17 Invited Lecture, Recent Advances in Neurology, University of California, San Francisco, CA
- 3/12 Invited Lecture, Veterans Admin. Hospital, Oregon Health Sciences University, Portland, OR
- 3/12 Invited Lecture, Dept. of Neurology, Oregon Health Sciences University, Portland, OR

- 3/13 Invited Lecture, Dept. of Neurology Grand Rounds, Oregon Health Sciences Univ., Portland, OR
- 3/28 Invited Lecture, Dept. of Neurology Grand Rounds, Johns Hopkins Univ. School of Medicine, Baltimore, MD
- 4/22 Invited Lecture, Dept. of Medicine Grand Rounds, University of Chicago, Chicago, IL
- 4/22 Invited Lecture, Dept. of Medicine, University of Chicago, Chicago, IL
- 4/24 Invited Lecture, Integrative Biology Program, Harvard Medical School, Boston, MA
- 5/ 29 Invited Lecture, Dept. of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, MA
- 6/10 Invited Lecture, March of Dimes Birth Defects Foundation Pre/Postdoctoral Fellowship Symposium, Hilton Head, SC
- 7/4 Invited Presentation, 7th International/3rd European Joint Symposium on Purine and Pyrimidine Metabolism in Man, Bournemouth, England
- 7/13 Invited Lecture, United Airlines Medical Staff Meeting, Burlingame, CA
- 9/24 Invited Lecture, Dept. of Neurology Grand Rounds, Auckland Hospital, Auckland, New Zealand
- 9/24 Invited Lecture, University of Auckland Hospital Physicians, Auckland, New Zealand

1992

- 1/23 Invited Presentation, NIAAA Conference on Adenosine, Bethesda, MD
- 5/ 4 Invited Lecture, American Academy of Neurology, San Diego
- 5/ 8 Invited Lecture, Genetics Day Retreat, Univ. of California, San Francisco, CA
- 6/15 Invited Organizer and Participant, Symposium on Phosphorylation, Research Society on Alcoholism, La Jolla, CA
- 6/19 Invited Lecture, U.S. Senate-House Biomedical Caucus, American Society of Cell Biology, Washington, DC
- 6/22 Invited Organizer and Participant, Symposium on Adenosine, International Society for Biomedical Research on Alcoholism, Bristol, England
- 6/28 International Organizing Committee and Participant, Marcus Wallenberg Symposium on Alcohol, Cell Membranes and Signal Transduction in Brain, Lund, Sweden
- 10/15 Invited Lecture, School of Pharmacy, University of California, San Francisco, CA
- 12/15 Invited Lecture, Neurology Grand Rounds, Department of Neurology, University of California, San Francisco, CA

1993

- 1/11 Invited Speaker and Participant, Gordon Conference on Alcohol, Oxnard, CA
- 3/5 Invited Lecture, Dept. of Biochemistry and Medicine (Neurology), Duke University School of Medicine, Durham, NC
- 3/9 Invited Lecture, Dept. of Neurology, Yale University, New Haven, CT
- 8/9 Invited Faculty Member and Speaker, Cold Spring Harbor Laboratories, "Neurobiology of Disease", Cold Spring Harbor, NY
- 9/19 Invited Speaker and Participant, Nobel Symposium, "Toward a Molecular Basis of Alcohol Use and Abuse", Karolinska Institute, Stockholm, Sweden

- 9/24 Invited Lecture, Dept. of Pharmacology, Karolinska Institute, Stockholm, Sweden
11/3 Invited Speaker and Participant, Howard Hughes Medical Institute Workshop on
"Molecular Approaches to the Problems of Drug Abuse and Addiction".
Bethesda, MD
12/1 Invited Represented from NIAAA, Advisory Committee to the Director, NIH,
Bethesda, MD

1994

- 4/11 Invited Lecture, Department of Neurology, Washington University, St. Louis, MO
5/25 Invited Lecture, National Foundation for Brain Research, "The Neuroscience of
Alcoholism Advancing Hope in the Decade of the Brain", National Press Club,
Washington, DC
6/20 Invited Chair and Organizer, Selective Interaction of Ethanol with Specific
Membrane Proteins, Research Society on Alcoholism, Maui, Hawaii
6/23 1994 Distinguished Research Awardee Lecture, Research Society on
Alcoholism, Maui, Hawaii
8/9 Invited Lecture, Dept. of Medicine Grand Rounds, University of California, San
Francisco, CA
10/5 Invited Lecture, Alcoholic Beverage Medical Research Foundation International
Medical Advisory Conference, Quebec City, Quebec, Canada

1995

- 4/24 Invited Participant, National Institute on Alcohol Abuse and Alcoholism Workshop
on Ethanol and Ligand Gated Ion Channels, Bethesda, MD
10/20 Invited Lecture, American Society of Addiction Medicine, Washington, D.C.
11/28 Invited Lecture, Alcohol Tolerance Workshop, Indiana University, Indianapolis, IN
12/15 Invited Lecture, Department of Neurology, Northwestern University School of
Medicine, Evanston, IL

1996

- 1/17 Invited Lecture, Dept. of Neuropharmacology, Scripps Research Institute, La Jolla,
CA
2/23 Invited Lecture, San Francisco General Hospital Program in Cellular and Molecular
Medicine, University of California, San Francisco, CA
3/28 Plenary Lecture, Institute of Medicine Conference on Raising the Profile of
Substance Abuse and Alcoholism Research, Washington, D. C.

1997

- 1/10 Invited Lecture, Neurobiological Technical Technologies, Inc., Richmond, CA
3/31 Invited Lecture, CV Therapeutics, Palo Alto, CA
4/2 Invited Discussant, NIAAA Conference, Genetics and the environment in
complex diseases a focus on alcoholism.
4/7 Visiting Professor and Invited Lecture, Dept. of Pathology, Thomas Jefferson
University, Philadelphia, PA
4/15 Invited Lecture, Suntory Research Institute, Kyoto, Japan
4/16 Invited Lecture, Kyoto Prefectural University School of Medicine, Kyoto, Japan

- 4/23 Visiting Professor and Invited Lecture, Dept. of Bioregulation Research Nagoya City University, Nagoya, Japan
- 4/25 Invited Lecture, Hamamatsu University School of Medicine, Hamamatsu, Japan
- 5/ 21 Grand Rounds, Dept. of Neurology, University of California, San Francisco, CA
- 5/ 26 Invited Participant, Ethics of Cooperation Conference, International Center for Alcohol Policies, Dublin, Ireland
- 10/20 Invited Participant, NIAAA Workshop on Treatment and Alcohol Craving, National Institutes of Health, Bethesda, MD

1998

- 2/9 Invited Lecture, Dean's Research Seminar Series, University of California, San Francisco, California
- 3/18 Invited Lecture, Dept. of Pharmacology, Univ. of Colorado, Denver, Colorado
- 4/8 Invited Lecture, Dept. of Anatomy, Pathology and Cell Biology, Thomas Jefferson University, Philadelphia, PA
- 5/11 Invited Discussant, NIAAA Conference: Neuroscience and Behavior Research, Washington, DC
- 6/27 Invited Presentation, 9th International Society for Biomedical Research on Alcoholism (ISBRA) Congress, Copenhagen, Denmark
- 7/3 Invited Lecture and Session Chair, ISBRA Satellite Meeting on Ethanol and Intracellular Signaling from Molecules to Behavior, Lund, Sweden
- 8/26 Invited Lecture, Metropolitan Club, San Francisco, CA
- 9/21 Invited Participant and Chair, Advances in Neuroscience, 27th International Medical Advisory Group Conference, Vancouver, BC
- 10/23 Invited Lecture, Dedication Ceremony, The Van Nuys Medical Science Building, Indiana University, Indianapolis, IN
- 11/7 Invited Participant, NIAAA Satellite Symposium, Applications of Gene Knockout Techniques to Alcohol Research, Los Angeles, CA
- 11/17 Invited Participant, NIAAA Workshop: Workshop on Preclinical Medications Development, Bethesda, MD
- 12/13 Invited Lecture, American College of Neuropsychopharmacology 1998 Annual Meeting, Las Croabas, Puerto Rico

1999

- 1/4 Invited Lecture, NIAAA USA-Chile-Canada Workshop: Genetic Factors in Alcoholism, Santiago, Chile
- 2/24 Grand Rounds, Dept. of Psychiatry, University of California, San Francisco, CA
- 3/17 Invited Lecture, Bowles Center for Alcohol Studies, University of North Carolina, Chapel Hill, NC
- 4/21 Invited Lecture, Critical Issues of Addiction, Haight Ashbury Free Clinics, Inc., San Francisco, CA
- 6/26 Invited Speaker, NIAAA Dinner, NIAAA Symposium, Alcohol Research: Translating Research Into Practice, Santa Barbara, CA
- 6/26 Invited Lectures and Session Chair, Research Society on Alcoholism, 22nd Annual Scientific Meeting, Santa Barbara, CA

- 8/4 Invited Lecturer, Summer Clinical Institute in Addiction Studies, Dept. of Psychiatry, University of California, San Diego, CA
- 9/16 Invited Lecturer, Graduate Theological Union Course The Disease of Alcoholism, Berkeley, CA
- 10/15 Invited Lecture, American Society for Biochemistry and Molecular Biology, Ethanol and Cell Signaling Symposium, Lake Tahoe, CA.
- 10/22 Invited Lecture, Department of Neurology, University of California, San Francisco, CA.
- 11/4 Invited Lecture, American Society of Addiction Medicine, Washington, D.C.

2000

- 4/12 Invited Lecture, Medical Friends of Wine, San Francisco, CA
- 4/14 Invited Lecture, Alcoholic Beverage Medical Research Foundation, Toronto, Canada
- 4/25 Invited Seminar, Children's Hospital Oakland Research Institute, Oakland, CA
- 5/ 30 Invited Lecture, Haight Ashbury Free Clinics and California Collaboration Center for Substance Abuse Policy Research 33rd Anniversary Conference – From Research to Practice, San Francisco, CA
- 7/3 Plenary Speaker, The 10th Congress of the International Society for Biomedical Research on Alcoholism, Yokohama, Japan
- 7/9 Invited Lecture, International Symposium on Recent Advances in Biomedical Research on Alcoholism: Genetics, Neurobiology, Behavior and Disease, Taipei, Taiwan, Republic of China
- 10/12 Invited Lecture, California Society of Addiction Medicine, San Francisco, CA
- 10/25 Invited Lecture, International Medical Advisory Conference, San Francisco, CA
- 11/1 Invited Lecture, The Fromm Institute, University of San Francisco, San Francisco, CA

2001

- 4/26 Invited Lecture, NIAAA/Gallo Center Symposium, University of California, San Francisco
- 5/ 3 Invited Lecture, California Conference of Local Health Officers, University of California, Berkeley, CA
- 6/1 Invited Lecture, University of Chicago School of Medicine
- 6/24 Invited Lecture, Research Society on Alcoholism 24th Annual Conference, Montreal, Canada
- 10/5 Invited Lecture, Molecular Mechanisms of Alcohol and Anesthetic Action Conference, Alcohol Research Center, Thomas Jefferson University, Philadelphia

2002

- 9/16 Keynote Presentation, UCSF Biomedical Science Research Career Enhancement Program, University of California, San Francisco, CA
- 10/10 Invited Lecture, University of Bologna, Bologna, Italy

2003

- 2/13 Invited Lecture, Recent Advances in Neurology, UCSF, San Francisco, CA
- 6/13 Invited Lecture, Department of Pharmacology and Therapeutics, University of Calgary, Calgary, Alberta, Canada
- 6/23 Invited Lecture, Research Society on Alcoholism, Satellite Conference, Fort Lauderdale, FL
- 8/7 Invited Speaker, Course on the Cellular Biology of Addiction, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
- 9/4 Invited Lecture, NIH/NIAAA, Bethesda, MD
- 10/9 Plenary Lecture, Japanese Society of Neuropsychopharmacology Annual Meeting, Nara, Japan
- 11/17 Invited Lecture, Bowles Center for Alcohol Studies, University of North Carolina School of Medicine, Chapel Hill, NC
- 11/20 Grand Rounds, Dept. of Psychiatry, University of California, San Diego, CA

2004

- 3/30 Invited Lecture, Department of Pharmacology, University of Washington, Seattle, WA
- 5/04 Lecture, Gallo Center Retreat, Asilomar, CA
- 6/03 Invited Lecture, Medications Development Team, NIH/NIAAA, Bethesda, MD
- 6/04 Invited Lecture, Division of Neuroscience & Behavioral Research, NIH/NIDA, Bethesda, MD
- 8/19 Invited Lecture, Cardiovascular Therapeutics, Palo Alto, CA
- 9/28 Invited Speaker, Max Planck Institute of Experimental Medicine, University of Goettingen, Germany
- 9/29 Invited Speaker and Symposium Chair, International Society for Biomedical Research on Alcoholism, 12th Congress, Heidelberg, Germany
- 10/04 Invited Keynote Speaker, Italian Society of Pharmacology Symposium, "Drug Addiction: from Molecules to the Human Brain", Sardinia, Italy
- 10/12 Invited Speaker, University of Melbourne, Melbourne, Australia
- 12/16 Invited Presentation, American College of Neuropsychopharmacology, San Juan, Puerto Rico

2005

- 1/21 Invited Seminar, National Institutes of Alcohol Abuse and Alcoholism, National Institutes of Health, Bethesda, MD
- 2/22 Invited Seminar, Rockefeller University, New York, NY
- 6/28 Invited Speaker, Research Society on Alcoholism, Santa Barbara, CA
- 7/25 Invited Participant and Speaker, Gordon Research Conference on Catecholamines, Andover, NH
- 11/3 Invited Seminar, Medical University of South Carolina, Charleston, SC

2006

- 5/18 Invited Lecture: Targeting Adenosine A2A Receptors in Parkinsons Disease and other CNS Disorders, Mass General Institute for Neurogenetic Disorders, Harvard Medical School, Boston, MA

- 5/27 Invited Lecture: International Symposium on Adenosine and Adenine Nucleotides, Ferrara, Italy
- 6/02 Invited Seminar: Department of Psychiatry, University of Chicago, School of Medicine, Chicago IL
- 9/22 ALDH2 Project Review Presentation, Cardiovascular Therapeutics, Palo Alto, CA
- 10/11 Scientific Advisory Board Presentation, Cardiovascular Therapeutics, Palo Alto, CA

2007

- 1/16 ALDH2 Project Review Presentation, Cardiovascular Therapeutics, Palo Alto, CA
- 1/26 NASDAQ CVT Science Day Presentation, New York, NY
- 3/27 Invited Lecture: Department of Gastroenterology Cleveland Clinic, Cleveland, OH.
- 5/07 Invited Seminar, National Institutes of Health, Bethesda, MD
- 5/10 Presentation, NIAAA, National Institutes of Health, Bethesda, MD
- 6/27 Presentation, Combined NIAAA-NIDA Meeting, National Institutes of Health, Bethesda, MD
- 7/06 ALDH2 Project Review Presentation, Cardiovascular Therapeutics, Palo Alto, CA
- 10/08 Invited Lecture: Department of Pharmacology and Alcohol Research Center, University of North Carolina, Chapel Hill, NC
- 10/15 Invited Presentation: International Medical Advisory Meeting Scientific Sessions/AMBRF, Halifax, Canada
- 12/14 Presentation, Scientific Advisory Board, Cardiovascular Therapeutics, Palo Alto, CA

2008

- 1/8 Invited Presentation, University of California, San Francisco, Memorial for Rudi Schmid, San Francisco, CA
- 1/22 Presentation, All Hands, Drug Safety and Clinical Operations, Cardiovascular Therapeutics, Palo Alto, CA
- 2/07 NASDAQ CVT Science Day Presentation, New York, NY
- 2/15 Presentation, Financial Department Meeting, CVT, Palo Alto, CA
- 5/07 Presentation, Volterra Conference, Alcoholism and Stress Presentation, Volterra, Italy
- 6/09 Invited Lecture, C.H.U. Saint-Pierre Anesthesia Dept., Brussels, Belgium
- 6/10 Invited Lecture, Central Institute of Mental Health, Heidelberg, Germany
- 6/18 Invited Lecture, University of Bonn, Bonn Germany
- 9/17 Presentation, CVT Board of Directors, Pebble Beach, CA
- 10/30 Presentation, Scientific Advisory Board, Cardiovascular Therapeutics, Palo Alto, CA

2009

- 5/26 Keynote Speaker, The Royal Australian & New Zealand College of Psychiatrists Congress, Adelaide, Australia
- 5/28 Invited Lecture, Howard Florey Institute, Univ. of Melbourne, Melbourne, Australia
- 9/3 Invited Seminar, Gilead Sciences, Palo Alto, CA

- 10/30 Research Seminar, Alcohol Research Center, University of Connecticut, Farmington, CT
10/30 Grand Rounds, Department of Psychiatry, University of Connecticut, Farmington, CT

2010

- 3/24 Invited Lecture, Waggoner Center, Univ. of Texas, Austin
3/24 Invited Teaching Session, Department Pharmacology, Univ. of Texas, Austin
3/25 Invited Speaker, Am. Soc. Pharm. Exp. Ther., Experimental Biology 2010, Anaheim, CA
5/12 Invited Lecture, Duke University School of Medicine, Durham, NC
5/21 Invited Speaker, Donald Gilden Symposium, Univ. of Colorado, Denver, CO
6/27 Invited Presentation, Research Society on Alcoholism Annual Meeting, San Antonio, TX
9/13 Invited Presentation, International Society for Biomedical Research on Alcoholism World Congress, Paris, France
9/15 Invited Presentation, International Society for Biomedical Research on Alcoholism World Congress, Paris, France
12/21 Presentation, Gilead Sciences, Foster City, CA

2011

- 5/5 Invited Speaker, Conference on Alcohol and Stress, Volterra, Italy

2012

- 5/21 Invited Lecture, American Neurological Association, Translational and Clinical Research, San Francisco, CA
9/17 Invited Lecture, National Institute of Drug Abuse, NIH, Bethesda, Maryland
9/18 Invited Lecture, Department of Psychiatry, University of Pennsylvania, Philadelphia, PA
10/25 Invited Lecture, University of California, San Francisco, 2nd Rudi Schmid Memorial Lecture Series, San Francisco, CA

2013

- 3/25 Invited Lecture, l'Université Paris-Sud, Paris, France
3/28 Invited Lecture, l'Université Paris-Nord, Paris, France
5/24 Invited Symposium Chair, Dopamine 2013, Alghero, Sardinia, Italy
6/17 Invited Presentation, College on Problems of Drug Dependence, San Diego, CA

2015

- 9/8. Invited Presentation, Emerging Targets for Stimulant Use Disorders, Division of Pharmacotherapies and Medical Consequences of Drug Abuse, National Institute on Drug Abuse, NIH, Bethesda, MD

