

CURRICULUM VITAE

Stanley B. Prusiner, M.D.

University of California, San Francisco
675 Nelson Rising Lane, Box 0518
San Francisco, CA 94158
Voice: (415) 476-4482
Fax: (415) 476-8386
Email: stanley.prusiner@ucsf.edu
<http://ind.ucsf.edu>

Director
Institute for Neurodegenerative Diseases
UCSF School of Medicine

Professor
Department of Neurology
Department of Biochemistry and Biophysics
UCSF School of Medicine

Professor in Residence
Department of Virology
UC Berkeley School of Public Health

EDUCATION

1960 Walnut Hills High School, Cincinnati, Ohio
1964 A.B. (*cum laude*), University of Pennsylvania, The College, Philadelphia, PA
1968 M.D., University of Pennsylvania, School of Medicine, Philadelphia, PA
1968 – 1969 Internship in Medicine, University of California, School of Medicine, San Francisco, CA
1972 – 1974 Residency in Neurology, University of California, School of Medicine, San Francisco, CA

DIPLOMATE

1979 Certified in Neurology, American Board of Psychiatry and Neurology, Certificate No. 18907

LICENSURE

1969 California – G 022619

MILITARY SERVICE

1969 – 1972 Research Associate, Lt. Commander, U.S. Public Health Service, National Institutes of Health, National Heart and Lung Institute, Laboratory of Biochemistry, Section on Enzymes, Bethesda, Maryland

APPOINTMENTS

1974 – 1980 Assistant Professor of Neurology in Residence, University of California, School of Medicine, San Francisco, California
1976 – 1988 Lecturer, Department of Biochemistry and Biophysics, University of California, School of Medicine, San Francisco, California
1979 – 1983 Assistant Professor of Virology in Residence, University of California, School of Public Health, Berkeley, California
1980 – 1981 Associate Professor of Neurology in Residence, University of California, School of Medicine, San Francisco, California
1981 – 1984 Associate Professor of Neurology, University of California, School of Medicine, San Francisco, California
1983 – 1984 Associate Professor of Virology in Residence, University of California, School of Public Health, Berkeley, California
1984 – present Professor of Neurology, University of California, School of Medicine, San Francisco, California

- 1984 – present Professor of Virology in Residence, University of California, School of Public Health, Berkeley, California
- 1994 Visiting Professor, Collège de France, Paris, France
- 1988 – present Professor of Biochemistry, University of California, School of Medicine, San Francisco, California
- 1999 – present Director, Institute for Neurodegenerative Diseases, University of California, School of Medicine, San Francisco, California
- 1999 Visiting Professor, Garvin Institute, Sydney, Australia
- 2007 – 2008 Leverhulme Visiting Professor, Imperial College, London, United Kingdom

HONORS AND AWARDS

- 1963 Phi Beta Kappa
- 1963 Alpha Epsilon Delta (premedical honor society)
- 1963 Sigma Xi
- 1967 Alpha Omega Alpha
- 1968 Roy G. Williams Basic Science Research Award, University of Pennsylvania, School of Medicine, Philadelphia, Pennsylvania
- 1975 – 1976 Research Career Development Award, National Institutes of Health, United States Public Health Service
- 1976 – 1978 Alfred P. Sloan Foundation Research Fellow, New York, New York
- 1976 – 1981 Howard Hughes Medical Investigator
- 1985 – 1990 Senator Jacob Javits Center for Excellence in Neuroscience, National Institutes of Health, Principal Investigator and Director
- 1987 George Cotzias Award for Outstanding Research in Neurology, American Academy of Neurology
- 1989 – 1990 33rd Faculty Research Lecturer, University of California San Francisco Academic Senate
- 1990 – 1997 Outstanding Investigator Award for Leadership and Excellence in Alzheimer's Disease, National Institutes of Health
- 1991 Potamkin Prize for Alzheimer's Disease Research, American Academy of Neurology
- 1991 Distinguished Medical Graduate Award, University of Pennsylvania, Philadelphia, Pennsylvania
- 1992 Christopher Columbus Quincentennial Discovery Award in Biomedical Research, National Institutes of Health and Medical Society of Genoa, Italy
- 1992 Metropolitan Life Foundation Award for Medical Research, New York, New York
- 1992 National Academy of Sciences of the United States of America, Member
- 1992 Institute of Medicine, National Academy of Sciences, Member
- 1992 Charles A. Dana Award for Pioneering Achievements in Health
- 1992 Health Science Achievement Award, University of Illinois, Chicago, Illinois
- 1992 Dickson Prize for Distinguished Scientific Accomplishments in Medicine, University of Pittsburgh
- 1992 Lifetime Science Achievement Award, George Washington University, Washington, D.C.
- 1992 Max-Planck-Forschungspreis, Alexander von Humboldt-Stiftung and Max-Planck-Gesellschaft (Shared with Detlev Riesner)
- 1993 Presidential Award, American Academy of Neurology
- 1993 Richard Lounsbery Award for Extraordinary Scientific Research in Biology and Medicine, National Academy of Sciences (Shared with Bert Vogelstein)
- 1993 Gairdner Foundation International Award for Outstanding Achievement in the Field of Medical Science, Toronto, Canada
- 1993 American Academy of Arts and Sciences, Fellow
- 1994 Professeur Associé, Collège de France, Paris, France
- 1994 Bristol-Myers Squibb Award for Distinguished Achievement in Neuroscience Research
- 1994 Albert Lasker Award for Basic Medical Research, Lasker Foundation, New York, New York
- 1995 Paul Hoch Award for Excellence in Research, American Psychopathological Association

- 1995 Paul Ehrlich and Ludwig Darmstaedter Award, Paul Ehrlich Foundation and the Federal Republic of Germany
- 1995 Royal College of Physicians, London, England, Foreign Fellow
- 1995 J. Elliott Royer Award for Contributions to Neurology, University of California San Francisco
- 1996 Caledonian Research Foundation Prize, Royal Society of Edinburgh, Scotland
- 1996 Wolf Prize in Medicine, Wolf Foundation and the State of Israel
- 1996 ICN International Prize in Virology, ICN Pharmaceuticals
- 1996 Pasarow Prize in Neuroscience, Pasarow Foundation, Los Angeles, California
- 1996 Prix d'Honneur, Louis Vuitton Moet Hennessy, Paris, France (Shared with Fred Cohen)
- 1996 Golden Plate Award, American Academy of Achievement
- 1996 Charles-Leopold Mayer Prize, Institut de France, Academie des Sciences, Paris, France (Shared with Charles Weissmann)
- 1996 Keio International Award for Medical Science, Keio University, Tokyo, Japan
- 1996 Baxter Award for Distinguished Medical Research, American Assoc. of Medical Colleges
- 1996 ICAAC Award, American Society of Microbiology
- 1996 Rehfuss Medal for Distinguished Service to Medicine, Thomas Jefferson University, Philadelphia, Pennsylvania
- 1997 Theobald Smith Award, Albany Medical College, Albany, New York
- 1997 Victor and Clara Soriano Award, World Federation of Neurology
- 1997 Amgen Award, Protein Society
- 1997 K. J. Zülch Prize for Basic Neurological Research, Gertrud Reemtsma Stiftung, Max-Planck-Gesellschaft (Shared with Charles Weissmann)
- 1997 Royal Society, London, England, Foreign Member
- 1997 Louisa Gross Horwitz Prize, Columbia University, New York, New York
- 1997 Henry N. Neufeld Memorial Award, United States–Israel Binational Science Foundation (Shared with Zeev Meiner)
- 1997 Nobel Prize in Physiology or Medicine, Nobel Foundation, Stockholm, Sweden
- 1998 Jubilee Medal, Swedish Medical Society, Stockholm, Sweden
- 1998 Franklin Institute Gold Medal, Benjamin Franklin Institute, Philadelphia, Pennsylvania
- 1998 UCSF Medal, University of California, San Francisco
- 1998 American Philosophical Society, Member
- 1998 Medalla Recoral, Universidad de Chile, Santiago, Chile
- 1998 Founding Associates Award, John Douglas French Foundation, Los Angeles, California
- 1998 Distinguished Achievement Award, American Academy of Neurology
- 1999 Prize Lecture Medal, University College London, London, England
- 1999 Sir Hans Krebs Medal, Federation of European Biochemical Societies
- 1999 International Fellowship, Garvan Institute, Sydney, Australia
- 1999 Achievement in Science Award, American Committee for Shaare Zedek Medical Center in Jerusalem, San Francisco, California
- 1999 Académie Royale de Medecine de Belgique, Foreign Member, Brussels, Belgium
- 1999 American Neurological Association, Honorary Member
- 2000 Ellen Browning Medal, Scripps Foundation for Medicine and Science, La Jolla, California
- 2003 Distinguished Alumni Award, University of Pennsylvania, Philadelphia, Pennsylvania
- 2003 American Academy of Neurology, Honorary Member
- 2003 World Jewish Academy of Sciences, Honorary Member
- 2003 Serbian Academy of Sciences, Foreign Member
- 2004 Commonwealth Award for Distinguished Service in Science, Wilmington, Delaware
- 2005 William Beaumont Medal, Wayne County Medical Society, Detroit, Michigan
- 2006 Fourth Military Medical University, Beijing, China, Honorary Professor
- 2006 Ernst Knobil Award, University of Texas Medical School, Houston, Texas
- 2007 T. S. Srinivasan Gold Medal, Chennai, India
- 2007 Leverhulme Trust Fellowship, London, United Kingdom
- 2008 Académie d'Agriculture de France, Member, Paris, France
- 2009 Society for General Microbiology Prize Medal, Harrogate, England

HONORS AND AWARDS, HONORARY DEGREES, OTHER HONORS, COMMENCEMENT ADDRESSES, PROFESSIONAL SOCIETIES

- 2009 George Eastman Medal, The College of the University of Rochester, Rochester, New York
- 2010 2009 National Medal of Science, Presidential Award, The National Science Foundation, Washington, D.C.
- 2011 Distinguished Alumni Award in Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania
- 2015 American Association of Anatomists, Honorary Member
- 2015 150th Anniversary Alumni Excellence Award, University of California San Francisco, San Francisco, California
- 2016 ASNR Honorary Member Award, American Society of Neuroradiology, Washington, D.C.
- 2016 Cozzarelli Prize, National Academy of Sciences, *Proceedings of the National Academy of Sciences of the United States of America*, Washington, D.C.
- 2016 BrightFocus Award, BrightFocus Foundation, Clarksburg, Maryland

HONORARY DEGREES

- 1995 Doctor of Philosophy Honoris Causa, Hebrew University, Jerusalem, Israel
- 1996 Doctor of Philosophy Honoris Causa, Université René Descartes–Paris V, France
- 1998 Doctor of Science Honoris Causa, University of Pennsylvania, Philadelphia, Pennsylvania
- 1999 Doctor of Science Honoris Causa, Dartmouth College, Hanover, New Hampshire
- 2000 Laurea ad Honorem in Medicina e Chirurgia, Dell'Università di Bologna, Bologna, Italy
- 2000 Docteur Honoris Causa, l'Université de Liège, Liège, Belgium
- 2001 Doctor of Science Honoris Causa, Pennsylvania State University, Hershey, Pennsylvania
- 2005 Doctores Honoris Causa, Universidad Cardenal Herrera-CEU, Moncada, Spain
- 2007 Doctor of Philosophy Honoris Causa, Claremont Colleges, Claremont, California
- 2010 Doctor of Philosophy Honoris Causa, Rosalind Franklin University, Chicago, Illinois
- 2015 Doctor of Science Honoris Causa, Mount Sinai School of Medicine, New York, New York

OTHER HONORS

- 2008 Stanley B. Prusiner Medical Information Center, Hadassah University Hospital, Jerusalem, Israel
- 2013 The Prusiner-Abramsky Neuroscience Research Awards to young investigators at Hebrew University of Jerusalem

COMMENCEMENT ADDRESSES

- 2001 Commencement Address, Pennsylvania State University, Schools of Medicine and Graduate Studies, Hershey, Pennsylvania, May 20, 2001
- 2007 Commencement Address, Keck Graduate Institute of Applied Life Sciences, Claremont, California, May 13, 2007
- 2010 Commencement Address, Rosalind Franklin University of Medicine and Science, Chicago, Illinois, June 4, 2010

PROFESSIONAL SOCIETIES

- American Society of Biochemistry and Molecular Biology
- American Society for Clinical Investigation, Emeritus
- American Chemical Society
- American Association for the Advancement of Science, 1997, Fellow
- American Academy of Neurology, 1996, Fellow; 2003, Honorary Member
- American Society for Neurochemistry
- American Society for Microbiology, 1997, Fellow
- International Society for Neurochemistry
- American Society for Cell Biology
- California Medical Association
- San Francisco Neurological Society
- Society for Neuroscience
- American Neurological Association, 1997, Honorary Member

American Society of Virology

American Society of Human Genetics

Association of American Physicians

Association of California Neurologists

American Association of Anatomists, 2015, Honorary Member

American Society of Neuroradiology, 2016, Honorary Member

OTHER AFFILIATIONS

- 1974 – 1999 Attending Neurologist, Veterans Administration Hospital, Fort Miley, San Francisco, CA
1974 – present Attending Neurologist, San Francisco General Hospital, San Francisco, CA
1990 – present Member, Program in Biological Sciences, Molecular Medicine Section, University of California, San Francisco, CA
1994 – present Member, Program in Biological Sciences, Neuroscience Section, University of California, San Francisco, CA
2007 – present Member, Institute for Regenerative Medicine, University of California, San Francisco, CA

UNIVERSITY SERVICE

- 1979 – 1982 Institutional Biosafety Committee, *Vice-Chairman*
1980 – 1981 Biosafety Manual Subcommittee, *Chairman*
1983 – present *Ad hoc* Peer Review Committees
1984 – 1985 Searle Scholar Nominating Committee
1989 *Ad hoc* Committee to Investigate Scientific Misconduct, *Chairman*
1989 – 1991 Nuclear Magnetic Resonance Scientific Advisory Committee
1989 – 1991 Planning Committee for a Second UCSF Campus
1989 – 1996 Committee on Animal Research
1991 – 1997 Fellowship Selection Committee, Program in Biological Science, Molecular Medicine Section
1992 – 1994 Academic Planning Committee, Letterman/LAIR
1993 Cell Culture Facility Advisory Committee
1993 *Ad hoc* Psychiatry Department Review Committee, *Chairman*
1994 – 1995 Committee on Indirect Costs
1994 – 1996 Chancellor's Task Force for Development of New Initiatives at SFGH
1994 – 1997 UCSF Medal Award Selection Committee
1995 *Ad hoc* Radiobiology Search Committee for Directorship
1997 Chancellor's Committee for Development of the Mission Bay Campus
1997 – 2000 Advisory Committee, Institute for Health and Aging Policy, School of Nursing
2001 Faculty Member, Western Oral Research Consortium
2009 Neuroscience Initiative Committee, *Member*
2010 – present Sandler Neurosciences Center, Building Committee, *Member*
2010 – 2012 Research Strategy Workgroup, UC Commission on the Future, *Member*
2010 – 2012 Academic Council, Special Committee on the Future of the University, *Member*

MEDICAL SCHOOL SERVICE

- 1976 – present Medical Student Research Training Sponsor
1977 – 1986 University of California Santa Cruz-University of California San Francisco Minority Student Training Program Committee
1979 – present *Ad hoc* Promotion Committees
1980 – 1985 Medical Student Research Program Committee
1981 Medical Student Screening Committee
1985 Psychiatry Chairman Search Committee
1985 Dean's Scientific Colloquia Committee
1989 – 1991 Psychiatry Search Committee for Alzheimer's Disease Research
1989 – 1995 Member, Scientific Advisory Board, Ernest Gallo Clinic and Research Center
1994 Working Group for a Department of Human Genetics
1995 Search Committee for Director of Human Genetics Program
1995 Search Committee for Director of Genetics Division, Department of Medicine
1996 – 1997 Planning Committee for Mission Bay Campus
1996 – present Scientific Advisory Board, Ernest Gallo Clinic and Research Center, *Chairman*
2000 – 2002 Dean's Executive Committee, School of Medicine, *Member*
2001 – 2005 Physician-Scientist Research Program Committee, *Member*
2001 – 2005 Advisory Board, ALS Center, *Member*
2011 – 2012 Psychiatry Chairman Search Committee

MEDICAL SCHOOL SERVICE, IND SERVICE, DEPARTMENTAL SERVICE, EDITORIAL SERVICE, INTERNATIONAL SERVICE

- 2012 – *Ad hoc* Search Committee, Institute for Neurodegenerative Diseases, Chemical Biology
 2013 – *Ad hoc* Search Committee, Institute for Neurodegenerative Diseases, Cell Biology
 2013 – *Ad hoc* Search Committee, Institute for Neurodegenerative Diseases, Computational Biology
 2013 – *Ad hoc* Search Committee, Institute for Neurodegenerative Diseases, Neuropathology
 2013 – *Ad hoc* Search Committee, Institute for Neurodegenerative Diseases, Neurogenetics

INSTITUTE FOR NEURODEGENERATIVE DISEASES SERVICE

- 1999 – present Founding Director
 1999 – present Executive Committee, *Chairman*

DEPARTMENTAL SERVICE

- 1975 – 1982 Neurology Research Seminar Coordinator
 1981 – 1982 Residency Neuroscience Conference Director
 1981 – 1984 Search Committee for Faculty Appointments at Veterans Administration Hospital in Neurology
 1985 – 1987 Joint Neurobiology-Neurology Seminar Series Committee
 1989 Committee to Develop a Scientific Writing Course in Biochemistry, *Chairman*
 1993 – 1995 Decade of the Brain Fund Raising Committee, *Chairman*
 1993 – present Neurology Executive Committee, *Member*
 1993 – present *Ad hoc* Search Committees
 1996 – 1997 Biochemistry and Biophysics Committee for Gordon Tompkins Lecture Program
 1998 – 2005 Executive Committee, Sandler Neurogenetics Center, *Member*

EDITORIAL SERVICE

- 1976 – present *Ad hoc referee*: Biochemistry, Archives of Biochemistry and Biophysics, Journal of General Virology, Canadian Journal of Biochemistry, Western Journal of Medicine, Science, Nature, Journal of Virology, Intervirology, Archives of Virology, American Journal of Pathology, Annals of Neurology, Molecular and Cellular Biology, New England Journal of Medicine, Journal of Infectious Diseases, Nucleic Acids Research, Experimental Neurology
 1979 – 1985 Journal of Neurochemistry, *Editorial Board*
 1987 – 1993 Neurology, *Editorial Board*
 1990 – 1999 Brain Pathology, *Editorial Board*
 1990 – 2010 Reviews in Medical Virology, *Editorial Board*
 1991 – 1996 Glycobiology, *Editorial Board*
 1993 – present Neurobiology of Disease, *Editorial Board*
 1993 – 2002 Amyloid: International Journal of Experimental & Clinical Investigation, *Editorial Board*
 1994 – 2004 Molecular Medicine, *Editorial Board*
 1995 – 1998 Current Biology – Folding and Design, *Editorial Board*
 1995 – 1999 Proceedings of the American Association of Physicians, *Editorial Board*
 1995 – 2005 Laboratory Investigations, *Editorial Board*
 1996 – 2008 Proceedings of the National Academy of Sciences USA, *Editorial Board*
 1996 – 1999 FASEB Journal, *Editorial Board*
 1997 – present JAMA Neurology, *Editorial Board*
 2000 – present Clinical Neuroscience Research, *Editorial Board*
 2002 – present Upper Board, Wiley-VCH Encyclopedia, The Encyclopedia of Molecular Biology and Molecular Medicine
 2003 – present Discovery Medicine, *Senior Editor*
 2006 – present Prion, *Editorial Board*
 2008 – 2011 The American Journal of Pathology, *Reviews Editor*

INTERNATIONAL SERVICE

- 1998 – 2002 Peres Center for Peace, Tel Aviv, Israel, *Medical Science Advisor*

- 1999 – present Agnes Ginges Center for Neurogenetics, Department of Neurology, Hadassah Medical School and Hospital, Hebrew University, Jerusalem, Israel, *Executive Committee Chairman*
- 2001 – 2002 Institute of Catalysis Science and Technology, Technion – Israel Institute of Technology, Haifa, Israel, *Scientific Advisory Board, Member*
- 2002 – 2005 Board of Directors, La Fondation Ipsen, Paris, France, *Board of Directors, Member*
- 2003 – 2006 Cambridge Centre for Stem Cell Biology and Medicine, University of Cambridge, Cambridge, United Kingdom, *International Scientific Advisory Board, Member*
- 2015 Prion 2015 International Congress, *Scientific Advisory Board, Member*

NATIONAL SERVICE

- 1976 – 2012 National Science Foundation research grants, *Ad hoc referee*
- 1978 National Institutes of Health, National Institute of Neurological and Communicative Disorders and Stroke, National Research Strategy Panel on Inflammatory, Demyelinating, and Degenerative Diseases, *Consultant*
- 1981 – 1985 Scientific Program Committee, American Academy of Neurology
- 1981 – present National Institutes of Health research grants, *Ad hoc referee*
- 1982 – 1986 Neurological Disorders Program – Project Review A Committee, National Institutes of Health
- 1984 – 1995 John D. French Foundation for Alzheimer's Disease, Los Angeles, California, Scientific Advisory Board, *Member*
- 1985 Alzheimer's Disease and Related Disorders Association research grants, *Ad hoc referee*
- 1985 – 1986 United States Department of Agriculture research grants, *Ad hoc referee*
- 1986 National Institutes of Health, Division of Research Grants, Special Review Committee, *Chairman*
- 1986 – 1994 American Health Assistance Foundation, Rockville, Maryland, Scientific Advisory Board
- 1988 & 1992 National Institutes of Health, National Institute of Aging, Panel for Leadership and Excellence Awards in Alzheimer's Disease, *Ad hoc referee*
- 1989 National Institutes of Health, National Institute of Aging, Committee for Alzheimer's Disease Research Centers, *Ad hoc referee*
- 1989 – 1994 American Health Assistance Foundation, Rockville, Maryland, Scientific Advisory Board, *Chairman*
- 1990 – 1992 National Institutes of Health, National Institute of Neurological Disorders and Stroke, Training Grant and Career Development Review Committee
- 1990 – 1992 American Academy of Neurology, Fundraising Task Force
- 1990 – 1994 American Neurologic Association, Long Range Planning Committee
- 1991 – 1996 American Academy of Neurology Foundation for Education and Research, *Trustee*
- 1992 Neurodegenerative Diseases Research Center, University of Toronto, Toronto, Canada, *Review Committee*
- 1994 Alzheimer's Disease Research Planning Meeting, Washington, D.C.
- 1994 – 2001 Potamkin Prize in Pick's and Alzheimer's Diseases Research Selection Committee, American Academy of Neurology
- 1995 National Academy of Sciences, Nominating Committee, *Member*
- 1995 – 1997 National Academy of Sciences, Section 41, Search and Screening Committee
- 1995 – 1997 American Neurological Association, *Councilor*
- 1995 – 2000 American Health Assistance Foundation, Rockville, Maryland, Scientific Advisory Board, *Special Advisor*
- 1996 – present John D. French Foundation for Alzheimer's Disease, Los Angeles, California, Scientific Advisory Board, *Chairman*
- 1997 – 2001 Center for Biologics Evaluation and Research, Food and Drug Administration, Transmissible Spongiform Encephalopathies Advisory Committee, *Member*
- 1998 National Academy of Sciences, Richard Lounsbery Award Committee, *Chairman*
- 1998 – 2001 Bard College, Annandale-on-Hudson, New York, Committee to Develop a New Science Curriculum, *Chairman*
- 1998 – 2002 Institute of Medicine, Chair Section Liaison
- 1999 – 2002 Institute of Medicine, Membership Committee

- 1999 – 2002 University of Texas Southwestern Medical Center, Dallas, Texas, External Advisory Committee for Endowed Program for Scholars in Biomedical Research, *Member*
- 1999 – 2004 American Academy of Achievement, Washington, D.C., Awards Council, *Member*
- 2000 – 2005 University of Pennsylvania, Philadelphia, Pennsylvania, *Trustee*
- 2000 – 2004 National Advisory Council on Aging, National Institutes of Health, Bethesda, Maryland, *Member*
- 2001 – 2004 Center for Biologics Evaluation and Research, Food and Drug Administration, *Consultant*
- 2002 – 2004 Department of Defense National Prion Research Program, Institute of Medicine Study Panel, *Consultant*
- 2003 – 2005 American Association for the Advancement of Science, Committee on Nominations, *Member*
- 2002 – present University of Texas Southwestern Medical Center, Dallas, Texas, External Advisory Committee for Endowed Program for Scholars in Biomedical Research, *Chairman*
- 2002 – present Foundation for Biomedical Research, Washington, D.C., Board of Governors, *Member*
- 2003 – 2005 American Association for the Advancement of Science, Committee on Nominations, *Member*
- 2003 – present Honorary Board of the International Raoul Wallenberg Foundation and the Angelo Roncalli International Committee, New York, NY, *Member*
- 2003 – 2010 International Longevity Center – USA, Board of Directors, *Member*
- 2007 – 2010 National Academy of Sciences Council, *Elected Member*
- 2007 – 2010 Budget and Internal Affairs Committee, National Academy of Sciences Council, *Member*
- 2007 – 2010 Executive Compensation Committee, National Academy of Sciences Council, *Member*
- 2007 – present National Society of High School Scholars, Atlanta, Georgia, *Board of Directors*
- 2008 Committee on Improving the Organization of the US Department of Health and Human Services to Advance the Health of Our Population, Institute of Medicine, *Member*
- 2008 – 2009 Governing Board, National Research Council, Washington, D.C., *Member*
- 2008 – 2009 Institute of Medicine Study Panel, “Organizing the Department of Health and Human Services to Achieve a Healthier America”, *Consultant*
- 2008 – 2010 Scientific Program Committee, National Academy of Sciences Council, *Member*
- 2008 – 2011 National Research Council Governing Board, National Academy of Sciences, *Member*
- 2008 – present American Health Assistance Foundation, Clarksburg, Maryland, *Board of Directors*
- 2008 – 2012 Science and Entertainment Exchange Advisory Board, National Academy of Science, *Member*
- 2009 – 2010 National Academy of Sciences, Washington, D.C., Executive Committee, *Member*
- 2009 – 2010 National Academy of Sciences, Washington, D.C., Executive Compensation Committee, *Chairman*
- 2010 – 2011 National Research Council, National Academy of Sciences, Committee on Future Science Opportunities in the Antarctic and Southern Ocean, *Member*
- 2010 – 2012 National Academy of Sciences, Washington, D.C., Building Restoration Committee, *Member*
- 2011 – present Institute for Molecular Neuroscience, Board of Directors, *Member*
- 2012 – present USAgainstAlzheimer’s Network (USA2), Washington, D.C., Board of Directors, *Member*
- 2012 – present Cleveland Clinic Lou Ruvo Center for Brain Health, Scientific Advisory Board, *Chairman*
- 2013 – present Blavatnik Awards for Young Scientists, Scientific Advisory Board, *Member*
- 2013 – 2015 American Neurological Association, *President Elect*
- 2014 – present Weill Cornell Medical College, New York, New York, Board of Overseers, *Member*
- 2014 – present Foundation for Food and Agriculture Research, Washington, D.C., *Member*

COMMUNITY SERVICE

- 1982 – 1990 Advisory Board, Family Survival Project for Adults with Chronic Brain Disorders
- 1985 – 1990 Scientific Review Committee, State of California Alzheimer’s Disease Diagnostic Center and Research Grant Program
- 1985 – 1992 Advisory Board, Alzheimer’s Disease and Related Disorders Association, San Francisco Chapter

- 1989 Chairman, Scientific review Committee, State of California Alzheimer's Disease Diagnostic Center and Research Grant Program
- 1995 – 2005 Board of Directors, Concordia Argonaut Club, San Francisco, California
- 1999 – 2002 Board of Trustees, Sherith Israel Synagogue, San Francisco, California
- 2002 – 2007 Board of Directors, Fromm Institute for Lifelong Learning, San Francisco, California

COMMERCIAL ACTIVITIES

- 1996 – 1999 Transmissible Agent Safety Committee (TASC), Centeon LLP
- 1998 – 1999 Chairman, Advisory Committee for Improving Airplane Air Quality, United Airlines, Inc.
- 1999 – 2005 Member, Board of Directors, KBC Pharma Inc.
- 2001 – 2008 Chairman, Board of Directors, InPro Biotechnology, Inc.
- 2014 – 2015 Member, Scientific Advisory Board, Emmaus Medical, Inc.
- 2016 – present Chairman, Scientific Advisory Board, BioBlast, Inc.

LECTURES:

Honorary Lectures

- 1) Ray A. and Robert C. Kroc Lecture, University of California Los Angeles, Department of Neurology, Los Angeles, California, September 26, 1985, "The Structure and Biology of Prions Causing Dementia."
- 2) Andrew Mark Lippard Memorial Lecture, Columbia University, College of Physicians and Surgeons, M.D. Ph.D. Program and Department of Neurology, New York, New York, October 8, 1985, "Prions Causing Scrapie and Creutzfeldt-Jakob Disease."
- 3) Louis B. Flexer Lecture, Neurosciences Institute, University of Pennsylvania, Philadelphia, Pennsylvania, May 6, 1986, "Prions — Novel Infectious Pathogens Causing Brain Degeneration."
- 4) Dean's Distinguished Professor Lecture, Eastern Virginia Medical School, Norfolk, Virginia, September 30, 1986, "Investigations into the Process of Aging."
- 5) Grass Foundation Traveling Scientist Lecture, Louisiana State University, Baton Rouge Chapter of the Society of Neuroscience, Baton Rouge, Louisiana, November 4, 1986, "Prions, Brain Degeneration, and Alzheimer's Disease."
- 6) Cotzias Award Lecture, American Academy of Neurology Meeting, New York, New York, April 5, 1987, "Prions — Novel Infectious Pathogens Causing Scrapie and Creutzfeldt-Jakob Disease."
- 7) Kenneth M. Campione Visiting Professor of Neurology, Northwestern University, Chicago, Illinois, March 8, 1988, "Prions in the Central Nervous System Diseases."
- 8) S. Stanley Schneierson Memorial Lecture, Mt. Sinai School of Medicine of the City University of New York, Departments of Microbiology and Medicine and the Page and William Black Post-Graduate School of Medicine, New York, New York, May 3, 1989, "Molecular Biology and Structure of Prions Causing Infectious, Sporadic, and Genetic Diseases of Humans."

- 9) Dean's Distinguished Seminar Speaker, University of Colorado, Denver, Colorado, October 4, 1989,
"Unraveling Prion Diseases through Molecular Genetics and Transgenic Mice."
- 10) Faculty Research Lecture, Academic Senate, University of California San Francisco, San Francisco, California, May 9, 1990,
"Unraveling Prion Diseases through Molecular Biology and Transgenetics."
- 11) Potamkin Prize for Alzheimer's Disease Research, 43rd Annual Meeting of the American Academy of Neurology, Boston, Massachusetts, April 23, 1991,
"Molecular Biology and Transgenetics of Prion Diseases: A Renaissance in Studies of Neurodegenerative Disorders in Humans and Animals."
- 12) Distinguished Medical Graduate Award, University of Pennsylvania, School of Medicine, Philadelphia, Pennsylvania, May 17, 1991,
"Molecular Biology and Transgenetics of Prion Diseases: A Renaissance in Studies of Neurodegenerative Disorders in Humans and Animals."
- 13) Janssen Presidential Lecture, XVth International Symposium on Cerebral Blood Flow and Metabolism, International Society for Cerebral Blood Flow and Metabolism, Miami, Florida, June 4, 1991,
"CNS Degeneration Caused by Prions — Genetic and Infectious Mechanisms."
- 14) Gesellschaft Förderung der Molekularbiologischen Forschung Lecture, Zentrum für Molekulare Biologie, ZMBH Forum: Cells and Signaling, Heidelberg, Germany, September 30, 1991,
"Unraveling Prions through Molecular Biology and Transgenetics."
- 15) Lilly Lecture, Lilly Research Laboratories, Indianapolis, Indiana, October 4, 1991,
"Prion Diseases of Humans and Animals."
- 16) Mary and Sandy McEwan Memorial Neurology Lecture, University of Toronto, Division of Neurology, Toronto, Ontario, Canada, October 24, 1991,
"Prion Biology — Infectious and Genetic Mechanisms in CNS Degeneration."
- 17) Robert R. Kohn Memorial Lecture, Case Western Reserve University, School of Medicine, Cleveland, Ohio, October 31, 1991,
"The Molecular Biology and Chemistry of Prions."
- 18) Harry M. Rose Lecture on Infectious Diseases, Columbia College of Physicians and Surgeons, New York, New York, November 13, 1991,
"Infectious and Genetic Prion Diseases of Humans and Animals."
- 19) Melville A. Hare Memorial Lecture, University of Rochester, School of Medicine and Dentistry, Microbiology and Immunology Department Seminar, Rochester, New York,

- December 11, 1991,
“Prion Diseases of Humans and Animals — Genetic and Infectious Mechanisms.”
- 20) Harvey Lecture, The Harvey Society, Rockefeller University, New York, New York,
March 26, 1992,
“Prion Diseases.”
- 21) Gordon Holmes Memorial Lecture, Third Meeting of the European Neurological Society, Lausanne,
Switzerland,
June 29, 1992,
“Prion Encephalopathy.”
- 22) Merck Centennial Lecture, University of Kansas, School of Pharmacy, Lawrence, Kansas,
September 24, 1992,
“Molecular Biology of Prion Diseases in Humans and Animals.”
- 23) Fondazione Sigma-Tau, Lectures on Aging, Rome, Italy,
October 12, 1992,
“Biologica Molecolare e Genetica delle malattie da Prioni: Degenerazione del SNC in relazione all’età.”
- 24) Dickson Prize in Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania,
December 10, 1992,
“Degenerative Brain Diseases Caused by Prions.”
- 25) Lounsbery Award Lecture, National Academy of Sciences One Hundred and Thirtieth Annual Meeting,
Washington, D.C.,
April 25, 1993,
“Prions in Biology and Medicine.”
- 26) The David Oppenheimer Memorial Lecture, University of Oxford, Neuroscience Lecture Series,
Department of Neuropathology, Oxford, England,
September 24, 1993,
“Chemistry, Biology and Genetics of Prion Diseases.”
- 27) Gairdner International Award Lecture, University of Toronto, Toronto, Canada,
October 21, 1993,
“Prions and Brain Degeneration.”
- 28) Gairdner International Award Lecture, McGill University, Montreal General Hospital Research Institute,
Centre for Research in Neuroscience, Montreal, Canada,
October 25, 1993,
“Molecular Biology and Genetics of Prion Diseases.”
- 29) Lectureship Award on Basic Cell Research in Cytology, American Society of Cytology, Houston, Texas,
November 4, 1993,
“Prions Causing CNS Degeneration in Humans and Animals.”
- 30) Carl Vernon Moore Memorial Lecture, Washington University, Department of Medicine, St. Louis,
Missouri,
November 5, 1993,
“Transgenetic and Protein Structural Approaches to Unraveling the Enigmas of Prion Diseases.”
- 31) Seventh Annual Willard B. Rew Memorial Lecture, Harvard Medical School, Boston, Massachusetts,
May 3, 1994,
“Age Dependent Dementias and Neurodegeneration Caused by Prions.”

- 32) Anders Retzius Lecture, Karolinska Institutet, Stockholm, Sweden, May 17, 1994, "Molecular Biology and Genetics of Prion Diseases."
- 33) Sackler Visiting Professor and Lecture, Cornell University School of Medicine, New York Hospital, Department of Neurology, New York, New York, June 22, 1994, "Inherited, Infectious, and Sporadic Human Prion Diseases."
- 34) First Annual Stanley Fahn Lecture, 3rd International Congress of Movement Disorders, Orlando, Florida, November 7, 1994, "Prion Diseases."
- 35) Sixth Annual Leonard Tevelson Memorial Lecture, Department of Microbiology and Immunology, Temple University School of Medicine, Philadelphia, Pennsylvania, November 8, 1994, "The Biochemistry and Genetics of Prion Diseases."
- 36) Harry DeLozier Lecture, Department of Neurology, Ohio State University, Columbus, Ohio, November 17, 1994, "Clinical Aspects of Prion Disease."
- 37) Norman Allen Lecture, Department of Neurology, Ohio State University, Columbus, Ohio, November 17, 1994, "New Approaches to Neurodegeneration through Studies of Prion Diseases."
- 38) Perspectives in Comparative Medicine Distinguished Lecturer, Yale University School of Medicine, New Haven, Connecticut, December 7, 1994, "Chimeric Prion Protein Transgenes and Molecular Biological Investigations of Prion Diseases."
- 39) Special Dean's Research Seminar Series Lecture, University of California San Francisco, San Francisco, California, January 27, 1995, "Prion Odyssey From Laughing Cannibals to Mad Cows."
- 40) Distinguished Lecturer in the Life Sciences, Boyce Thompson Institute, Cornell University, Ithaca, New York, February 15, 1995, "Molecular, Biological, and Biophysical Investigations of Prions Causing CNS Degeneration."
- 41) Evans Lecturer, Department of Medicine, Boston University Medical Center, Boston, Massachusetts, February 16, 1995, "The Prion Diseases."
- 42) Hoch Award Lecture, American Psychopathological Association, New York, New York, March 2, 1995, "Genetic and Infectious Prion Diseases of Humans and Animals."
- 43) Paul Ehrlich and Ludwig Darmstaedter Award Ceremony, Paulskirche, Frankfurt, Germany, March 14, 1995, "Prion Biology and Diseases: Laughing Cannibals, Mad Cows, and Scientific Heresy."

- 44) Paul Ehrlich Lecture, Paul-Ehrlich-Institut, Langen, Germany,
March 15, 1995,
“The Prion Diseases: Laughing Cannibals, Mad Cows, and Scientific Heresy.”
- 45) Paul Ehrlich Lecture, National Institutes of Health, Foundation for Advanced Studies, Bethesda, Maryland
April 26, 1995,
“The Present State of Prions.”
- 46) Susan Swerling Lecture, Dana-Farber Cancer Institute, Harvard Medical School, Boston, Massachusetts,
May 22, 1995,
“Molecular Biology and Biophysics of Prions Causing CNS Degeneration.”
- 47) Georg Hübscher Memorial Lecture, University of Nottingham, Nottingham, England,
May 24, 1995,
“Molecular Biological and Biophysical Studies of Prions Causing Neurodegeneration.”
- 48) Julian S. Davis Lecture, Mt. Zion Medical Center, University of California San Francisco, San Francisco, California,
June 9, 1995,
“Degenerative Illnesses of the Brain — A Lesson from Prion Diseases.”
- 49) Abraham Flexner Lectures, Vanderbilt University School of Medicine, Nashville, Tennessee,
September 26, 1995,
“Molecular Biology and Genetics of Prion Diseases.”
September 27, 1995,
“Prion Diseases of Humans and Animals — Clinical and Neuropathological Aspects.”
September 27, 1995,
“How Do Prions Replicate? Lessons from Biophysical Studies of the Prion Protein.”
- 50) Grass Foundation Lecture, University of North Carolina School of Medicine, Chapel Hill, North Carolina,
October 2, 1995,
“Neurobiology and Genetics of Prion Diseases.”
- 51) Osamu Hayaishi Lecture, Kyoto University, Kyoto, Japan,
October 30, 1995,
“The Genetic and Physical Basis of Prion Diseases.”
- 52) Distinguished Lecturer, University of Kentucky, Sanders-Brown Center on Aging, Lexington, Kentucky,
December 12, 1995,
“Prion Disease and Neurodegeneration.”
- 53) William Gies Distinguished Lecture, International Association for Dental Research, San Francisco, California,
March 14, 1996,
“Prion Biology and Diseases.”
- 54) Wolf Prize Lecture, Technion, Israel Institute of Technology, Haifa, Israel,
March 28, 1996,
“Prion Biology and Diseases.”
- 55) Wolf Prize Lecture, Weizmann Institute of Science, Rehovot, Israel,
March 28, 1996,
“Prion Biology and Diseases.”

- 56) Eleventh Annual Pfizer Lecture in Honor of Konrad Bloch, Harvard University, Cambridge, Massachusetts, April 3, 1996, "Prion Biology and Diseases: Transgenetic and Biophysical Investigations."
- 57) Morris B. Bender Memorial Lecture, Mt. Sinai Hospital and School of Medicine, New York, New York, May 1, 1996, "Disorders of Protein Conformation — Prions in the Mad Cow Crisis."
- 58) Caledonian Research Foundation Prize Lecture, Royal Society of Edinburgh, Edinburgh, Scotland, May 13, 1996, "The Molecular Biology and Pathogenesis of Prion Disease: an Agent of Neurodegeneration."
- 59) William Dick Lecture, The Royal Dick School of Veterinary Studies, University of Edinburgh, Edinburgh, Scotland, May 15, 1996, "Prions Causing BSE and Scrapie."
- 60) Pasarow Prize Lecture, University of Southern California, Los Angeles, California, May 20, 1996, "Prions, CNS Degeneration, and Mad Cows."
- 61) ICAAC Award Lecture, American Society for Microbiology, New Orleans, Louisiana, September 16, 1996, "The Prion Odyssey — From Heresy to Orthodoxy."
- 62) John H. Erskine Lecture in Infectious Diseases, St. Jude Children's Research Hospital, Memphis, Tennessee, September 17, 1996, "The Challenge of Learning How Prions Destroy the Brains of Humans and Animals."
- 63) Associated Universities Incorporated Distinguished Lecture, Brookhaven National Laboratory, Upton, New York, October 1, 1996, "Prion Biology and Diseases."
- 64) John Enders Lecture, Children's Hospital, Harvard University, Cambridge, Massachusetts, October 2, 1996, "The Prion Saga — A Journey from Heresy to Orthodoxy."
- 65) Nobel Forum Lecture, Karolinska Institutet, Stockholm, Sweden, October 1, 1996, "Prion Biology and Diseases — The Mad Cow Crisis."
- 66) Huygens Lecture, Netherlands Organization for Scientific Research, The Hague, The Netherlands, November 6, 1996, "Mad Cows, Cannibals and Prions."
- 67) Oretta Bartolomei Corsi Lecture, University of Florence, Florence, Italy, November 7, 1996, "Mad Cows, Creutzfeldt-Jakob Disease, and the Biology of Prions."

- 68) Martin E. Rehfuess Lecture, Thomas Jefferson University, Philadelphia, Pennsylvania, November 20, 1996,
“Prion Diseases — Mad Cows and Europeans.”
- 69) Charles-Leopold Mayer Prize Lecture, Institut de France, Academie des Sciences, Paris, France, December 10, 1996,
“The Prion Odyssey — From Heresy to Orthodoxy.”
- 70) Université René Descartes Conference, Faculté des Sciences Pharmaceutiques et Biologiques, Paris, France, December 11, 1996,
“Prion Odyssey: From Laughing Cannibals to Mad Cows.”
- 71) Keio International Medical Science Prize Lecture, Keio University, Tokyo, Japan, December 19, 1996,
“Prion Biology and Diseases — Studies on the Structural Diversity of Prion Proteins.”
- 72) Theobald Smith Award Lecture, Albany Medical College, Albany, New York, February 11, 1997,
“Turmoil in Europe: Mad Cows and Prions.”
- 73) Kosuge Memorial Lectureship, University of California, Davis, California, April 10, 1997,
Technical Seminar:
“Structural Biology and Genetics of Prions: An Odyssey from Heresy to Orthodoxy.”
Student Seminar:
“Laughing Cannibals, Mad Cows, and Scientific Heresy.”
- 74) Werner Heisenberg Lecture, Carl Friedrich von Siemens Foundation, Munich, Germany, June 3, 1997,
“The Biology, Genetics, and Biophysics of Prions.”
- 75) Maud L. Menten Lecture, University of Pittsburgh, Pittsburgh, Pennsylvania, June 12, 1997,
“Prions — A Scientific Odyssey from Heresy to Orthodoxy.”
- 76) Amgen Lecture, Eleventh Symposium of the Protein Society, Boston, Massachusetts, July 13, 1997,
“Structural Biology and Genetics of Prions.”
- 77) Victor and Clara Soriano Award Lecture, XVI World Congress of Neurology, Buenos Aires, Argentina, September 17, 1997,
“Prions and Neurological Disorders.”
- 78) Zülch Award Presentation, Gertrud Reemtsma Foundation, Köln, Germany, September 26, 1997,
“Prions and Mad Cows — Embracing Fatal Conformations of Proteins during a Journey from Heresy to Orthodoxy.”
- 79) Eagleson Lecture, American Biological Safety Association Conference, San Diego, California, October 20, 1997,
“Mad Cows, Demented People, and Biocontainment.”

- 80) Maynard Dewey Lecture, SUNY Stony Brook, Stony Brook, New York, October 22, 1997,
“Biophysical and Genetic Studies of Prions Causing Neurodegeneration in Humans and Animals.”
- 81) Louisa Gross Horwitz Prize Lecture, Columbia University, New York, New York, October 23, 1997,
“Prions — Fatal Conformational Changes in Humans and Cows.”
- 82) Charles Yanofsky Award Fund Lecture, Stanford University, Stanford, California, November 24, 1997,
“Prions — Fatal Conformational Changes in Humans and Cows.”
- 83) Nobel Prize Lecture, Karolinska Institutet, Stockholm, Sweden, December 8, 1997,
“Prions.”
- 84) Nobel Prize Lecture, University of Uppsala, Uppsala, Sweden, December 13, 1997,
“Prions.”
- 85) Swedish Medical Society Jubilee Gold Medal Lecture, University of Lund, Lund, Sweden January 20, 1998,
“Prions.”
- 86) Swedish Medical Society Jubilee Gold Medal Lecture, University of Umea, Umea, Sweden January 21, 1998,
“Prions.”
- 87) Swedish Medical Society Jubilee Gold Medal Lecture, University of Linköping, Linköping, Sweden January 22, 1998,
“Prions.”
- 88) Swedish Medical Society Jubilee Gold Medal Lecture, University of Göteborg, Göteborg, Sweden January 23, 1998,
“Prions.”
- 89) Dean’s Distinguished Seminar Series, University of Colorado Health Sciences Center, Denver, Colorado, March 2, 1998,
“Lessons from Prion Biology about Mad Cows and Demented People.”
- 90) 33rd Annual George Gamow Memorial Lecture, University of Colorado, Boulder, Colorado, March 3, 1998,
“Prions — A New Paradigm in Biology and Medicine.”
- 91) Beach Family Lectureship in Biochemistry, Department of Biochemistry, Purdue University, West Lafayette, Indiana, March 24, 1998,
“Prions: From Scorn and Ridicule to Notoriety and Preeminence.”
- 92) University of Pennsylvania School of Medicine Graduation, Philadelphia, Pennsylvania, May 17, 1998,
“Distinguished Alumnus Address.”

- 93) Capital Science Lecture, Carnegie Institution, Washington, D.C.,
October 13, 1998,
“Prion Biology and Diseases.”
- 94) Florence Mahoney Lecture, National Institutes of Health, National Institute on Aging, Bethesda,
Maryland,
October 14, 1998,
“Prion Biology and Diseases — A Saga of Skeptical Scientists, Mad Cows, and Laughing Cannibals.”
- 95) Inaugural Jerome Joseph Landa Lecture, University of Utah, Department of Neurology, Salt Lake City,
Utah,
January 11, 1999,
“A Saga of Scientific Discovery — Study of Prions Causing Mad Cow Disease and Fatal Brain
Degeneration in Humans.”
- 96) Harrington and Fogan Lecture, University at Buffalo School of Medicine and Biomedical Sciences,
Buffalo, New York,
March 22, 1999,
“Clinical and Experimental Neurology of Prion Disease.”
- 97) Seventh Orten Lecture, James M. Orten Memorial Fund, Wayne State University School of Medicine,
Detroit, Michigan,
March 23, 1999,
“The Saga of Prion Diseases.”
- 98) 44th George H. Bishop Lecture in Experimental Neurology, Washington University School of Medicine, St.
Louis, Missouri,
March 24, 1999,
“The Biology and Genetics of Dementing Diseases Caused by Prions.”
- 99) Prize Lecture, University College London, London, England,
June 17, 1999,
“Prions, Mad Cows, and Creutzfeldt-Jakob Disease.”
- 100) The Sir Hans Krebs Lecture, Federation of European Biochemical Societies, Nice, France,
June 19, 1999,
“Prion Biology and Diseases.”
- 101) Inaugural Keynote Lecture, Buck Center for Research in Aging, Novato, California,
September 30, 1999,
“Looking Forward to Neurodegeneration as We Grow Older.”
- 102) Albert Einstein Memorial Lecture, Princeton Chamber of Commerce, Princeton, New Jersey,
October 6, 1999,
“Prions Devouring the Brains of Mad Cows and Laughing Cannibals.”
- 103) F. E. Bennett Lecture, American Neurological Association, Seattle, Washington,
October 12, 1999,
“Clinical and Basic Investigations of Prion Diseases.”
- 104) Benjamin Lieberman Memorial Lecture, UCSF–Mount Zion Center on Aging, University of California,
San Francisco, California,
October 26, 1999,
“Aging and Neurodegeneration.”

- 105) Fred Plum Lecture, University of Washington, Department of Neurological Surgery, Seattle, Washington, January 5, 2000,
“New Approaches to Dementing Illnesses—The Saga of Prions from Heresy to Orthodoxy.”
- 106) Institute of Medicine Distinguished Lecture, University of Iowa, Iowa City, Iowa, April 6, 2000,
“Prions and the Brain.”
- 107) Shattuck Lecture, Massachusetts Medical Society, Boston, Massachusetts, May 20, 2000,
“Lessons from Prion Diseases for the More Common Neurodegenerative Disorders.”
- 108) Bass Award Lecture, The Society of Neurological Surgeons, Pasadena, California, May 22, 2000,
“New Approaches to Dementing Illnesses — the Saga of Prions: From Heresy to Orthodoxy.”
- 109) Osamu Hayaishi Lecture, 18th International Congress of Biochemistry and Molecular Biology, Birmingham, England, July 19, 2000,
“Molecular Biology and Genetics of Prions.”
- 110) St. Geme Lecture, Department of Neurology, University of Colorado Health Sciences Center, Denver, Colorado, December 14, 2000,
“Demented People and Mad Cows Caused by Prions.”
- 111) Richard M. Paddison, M.D. Lecture, Louisiana State University Health Sciences Center, New Orleans, Louisiana, March 6, 2001,
“Mad Cows, Demented People, and the Biology of Prions.”
- 112) Sterling Drug/Maurice L. Tainter Keynote Lecture, The First Stanford Symposium on Aging: Biology, Disease, and Economics, Stanford, California, March 13, 2001,
“Age Dependent Neurodegenerative Disease—Lessons from Studies of Prions.”
- 113) Lewis Weinstein Lecture, 39th Annual Meeting of the American Society of Neuroradiology, Boston, Massachusetts, April 23, 2001,
“Demented People, Mad Cows, and the Biology of Prions.”
- 114) Rodney Porter Memorial Lecture, Oxford University Museum of Natural History, University of Oxford, Oxford, England, May 31, 2001,
“The Mad Cow Crisis.”
- 115) Lección Conmemorativa
“E. Ortiz de Landázuri”,
Clínica Universitaria, Facultad de Medicina, Universidad de Navarra, Pamplona, Spain, June 4, 2001,
“Mad Cows, Demented People and the Biology of Prions.”
- 116) Tadeusz J. Wiktor Memorial Lecture, The Wistar Institute, University of Pennsylvania, Philadelphia, Pennsylvania,

- November 1, 2001,
“Mad Cow, Demented People, and the Biology of Neurodegeneration.”
- 117) Neal Nathanson Lectureship, School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania,
February 13, 2002,
“Prion Biology and New Approaches to Therapeutics.”
- 118) Thomas Dent Mütter Lecture, The College of Physicians of Philadelphia, Philadelphia, Pennsylvania,
February 14, 2002,
“Prion Biology and New Approaches to Therapeutics.”
- 119) Marian E. Koshland Seminar Series, Department of Molecular and Cell Biology, University of California, Berkeley, California,
May 14, 2002,
“Prion Biology and Therapeutics.”
- 120) Oshman Efron Guest Lecture, Baylor College of Medicine, Houston, Texas,
September 26, 2002,
“Prion Biology, Demented People, and Mad Cows: From Slow Viruses to Misfolded Proteins.”
- 121) Lawson Wilkins Lecture, Lawson Wilkins Pediatric Endocrine Society Annual Meeting, San Francisco, California,
May 1, 2004,
“The Mad Cows That Changed America.”
- 122) Robert Marshak Distinguished Lectureship in Veterinary Medicine, University of Pennsylvania School of Veterinary Medicine Faculty Research Retreat 2004, Bryn Mawr, Pennsylvania,
June 18, 2004,
“The Mad Cows that Changed America.”
- 123) Raymond D. Adams Lecture, 129th Annual Meeting of the American Neurological Association, Toronto, Ontario, Canada,
October 6, 2004,
“Mad Cows and Synthetic Prions.”
- 124) Robert Wartenberg Lecture, American Academy of Neurology 57th Annual Meeting, Miami Beach, Florida,
April 12, 2005,
“Synthetic Prions: Diagnosis and Treatment of Prion Disease”
- 125) 84th Annual Beaumont Lecture, Wayne County Medical Society, Troy, Michigan,
October 28, 2005,
“Synthetic Prions, Mad Cows, and the Struggle Between Heresy and Orthodoxy in Science.”
- 126) Winford P. Larson Lecture, University of Minnesota Department of Microbiology, Minneapolis, Minnesota,
April 17, 2006,
“Synthetic Prions, Mad Cows, and Scientific Heresy.”
- 127) 3rd Annual Sid Gilman and Carol Barbour Lecture in Experimental Neurology, University of Michigan Health System, Ann Arbor, Michigan,
April 19, 2006,
“Synthetic Prions, Mad Cows, and Scientific Heresy.”

- 128) Sterling B. Hendricks Memorial Lectureship, 232nd American Chemical Society Meeting, San Francisco, California, September 13, 2006, "Synthetic Prions, Mad Cows, and Scientific Heresy."
- 129) Russell and Elizabeth Bundy Visiting Professorship in Honor of Dr. Ross M. Tucker, Mayo Clinic, Jacksonville, Florida, October 10, 2006, "Synthetic Prions, Mad Cows, and Scientific Heresy."
- 130) Dr. Robert B. Church Lecture in Biotechnology, University of Calgary, Calgary, Alberta, Canada, October 25, 2006, "Mad Cows, Prion Diagnostics, and Scientific Heresy."
- 131) Ernst Knobil Distinguished Lecture, University of Texas, Houston, Texas, November 30, 2006, "Synthetic Prions, Mad Cows and Scientific Heresy."
- 132) Twenty-seventh T. S. Srinivasan Endowment Oration, Indian Institute of Technology – Madras, Chennai, India, February 17, 2007, "On Viruses, Genes and Mad Cows – Lessons from Prion Disease."
- 133) Fourth Annual Robert A. Fishman Visiting Professor of Neurology Lecture, University of California, San Francisco, California, April 23, 2007, "Prions, Mad Cows and Dementing Diseases."
- 134) 12th Annual Distinguished Visiting Scientist Lecture, Feinstein Institute for Medical Research, Manhasset, New York, June 20, 2007, "Prions, Mad Cows and Dementing Diseases."
- 135) Leverhulme Lectures, Imperial College, London, England, January 17, 2008, "Discovering Prions – Some Personal Reflections. Looking For a Way Out of the Fog (1972–1978)."
January 24, 2008, "Discovering Prions – Some Personal Reflections. Searching for a Virus and Finding Only Protein (1978–1987)."
February 28, 2008, "Discovering Prions – Some Personal Reflections. The Reality of Prions (1988–2007)."
- 136) Nobel Conversations: discovering the unexpected, Imperial College, London, England, June 17, 2008, "Prions – A New Principle of Infection."
- 137) Elizabeth Rogers Lecture in Geriatric Medicine, Johns Hopkins Medical Institutions, Baltimore, Maryland, November 10, 2008, "Neurodegenerative Diseases of Aging."
- 138) Peter W. Lampert Memorial Lecture, University of California San Diego, Department of Pathology, San Diego, California,

- November 21, 2008,
“The Neurobiology of Prion Diseases.”
- 139) Society for General Microbiology Prize Medal Lecture, Harrogate, England,
April 1, 2009,
“Prion Biology and Diseases.”
- 140) Gerald and Sally DeNardo Lectureship Public Lecture, Santa Clara University, College of Arts and Sciences, Santa Clara, California,
April 15, 2009,
“The Scourge of Alzheimer’s and Parkinson’s and Prion Diseases.”
- 141) Gerald and Sally DeNardo Lectureship Public Lecture, Santa Clara University, College of Arts and Sciences, Santa Clara, California,
April 16, 2009,
“Discovering Prions.
- 142) National Institutes of Health Distinguished Lecturer in Neuroscience and Aging, Baltimore, Maryland,
May 20, 2009,
“Design and Construction of Prion Strains.”
- 143) Robert E. Gross Lecture, American Pediatric Surgery Association Annual Conference, Fajardo, Puerto Rico,
May 29, 2009,
“Designer Prions and a Quest for Therapy.”
- 144) Presidential Eastman Medal of the University of Rochester, Distinguished Neuroscience Speaker Series, Rochester, New York,
December 8, 2009,
“Design and Construction of Synthetic Prions.”
- 145) 1st Annual Anthony Fink Lecture, University of California Santa Cruz, Santa Cruz, California,
October 15, 2010,
“Increasing Evidence that Prions Cause Most Neurodegenerative Diseases.”
- 146) 1st Annual Charles J. Epstein, M.D. Lecture, Buck Institute for Research on Aging, Novato, California,
February 11, 2011,
“The Spectrum of Prion-Like Diseases and the Quest for Therapeutics.”
- 147) 29th Annual Rita and Taft Schreiber Lectureship in Transfusion Medicine, Cedars Sinai Medical Center, Los Angeles, California,
April 1, 2011,
“Pathogenesis of Prion Disease and Elusive Therapies for Neurodegenerative Diseases.”
- 148) 2nd Annual Penn Chemistry Distinguished Alumni Award Symposium honoring Stanley B. Prusiner, University of Pennsylvania, Philadelphia, Pennsylvania,
May 3, 2011,
“The Biochemistry of Prions”
- 149) 5th Annual Sackler Lecture, Yale University Program for Cellular Neuroscience, Neurodegeneration and Repair, New Haven, Connecticut,
May 5, 2011,
“The Spectrum of Prion Like Diseases and the Quest for Therapeutics.”

- 150) 3rd Annual Presidential Lecture, Uniformed Services University Research Week, Uniformed Services University, Bethesda, Maryland, May 18, 2011, "Therapeutics Approaches to Neurodegeneration in Head Trauma."
- 151) 2012 Presidential Distinguished Lecture, The University of Texas Health Science Center at San Antonio, San Antonio, Texas, November 2, 2012, "Brain Injuries: Soldier, Football Players and Older People."
- 152) Distinguished Neuroscience Lecture, Nebraska Neuroscience Alliance, Omaha, Nebraska, December 13, 2012, "Brain Injuries: Soldier, Football Players and Alzheimer's Victims."
- 153) Dammin Lecture, Brigham and Women's Hospital, Boston, Massachusetts, January 24, 2013, "Unifying Role for Prions in Neurodegeneration."
- 154) USC Irene McCulloch Distinguished Lecturer in Neuroscience, Keck School of Medicine of USC, Los Angeles, California, March 14, 2013, "A Unifying Role for Prions in Neurodegeneration."
- 155) The Ruth K. Broad Foundation Seminar Series on Neurobiology and Disease, Duke University, Durham, North Carolina, April 23, 2013, "A Unifying Role for Prions in Neurodegeneration."
- 156) DeArmond Lecture, 89th Annual Meeting of the American Association of Neuropathologists, Charleston, South Carolina, June 21, 2013, "A Unifying Role for Prions in Neurodegenerative Diseases."
- 157) 5th Annual Michael Nacht Distinguished Lecture in Politics and Public Policy, University of California Berkeley, Berkeley, California, February 25, 2014, "Alzheimer's, Parkinson's and Traumatic Brain Injury—Prions, Amyloids and Proteins."
- 158) Francis Crick Lecture, Laboratory of Molecular Biology, Cambridge University, England, April 11, 2014, "Prions Causing Neurodegeneration: A Unifying Etiology and the Quest for Therapeutics."

Invited Lectures (1977 – present): Total of 739

Invited Non-Scientific Presentations (1998 – present): Total of 64

PUBLICATIONS:

Journal Articles

- 1) Black-Schaffer, B., Prusiner, S., and Esparza, H. (1965). Tolerance of the vestibular apparatus of the hypothermic hamster to 840G acceleration. *Aerospace Med.* **36**, 123–126.
- 2) Prusiner, S.B., Moskovitz, P.A., and Wolfson, S.K., Jr. (1965). Relationship of acidemia to cerebral edema. *Arch. Surg.* **91**, 902–905.
- 3) Prusiner, S., and Wolfson, S.K., Jr. (1968). Hypothermic protection against cerebral edema of ischemia. *Arch. Neurol.* **19**, 623–627.
- 4) Prusiner, S., Williamson, J.R., Chance, B., and Paddle, B.M. (1968). Pyridine nucleotide changes during thermogenesis in brown fat tissue in vivo. *Arch. Biochem. Biophys.* **123**, 368–377.
- 5) Prusiner, S.B., Eisenhardt, R.H., Rylander, E., and Lindberg, O. (1968). The regulation of oxidative metabolism of isolated brown fat cells. *Biochem. Biophys. Res. Commun.* **30**, 508–515.
- 6) Lindberg, O., Prusiner, S.B., Cannon, B., Ching, T.M., and Eisenhardt, R.H. (1970). Metabolic control in isolated brown fat cells. *Lipids* **5**, 204–209.
- 7) Prusiner, S., and Milner, L. (1970). A rapid radioactive assay for glutamine synthetase, glutaminase, asparagine synthetase, and asparaginase. *Anal. Biochem.* **37**, 429–438.
- 8) Prusiner, S. (1970). Spectroscopic evidence for the control of respiration prior to phosphorylation in hamster brown fat cells. *J. Biol. Chem.* **245**, 382–389.
- 9) Williamson, J.R., Prusiner, S., Olson, M.S., and Fukami, M. (1970). Control of metabolism in brown adipose tissue. *Lipids* **5**, 1–14.
- 10) Prusiner, S.B., Milner, L.S., Long, C.W., and Myers, M.L. (1971). Vacuum manifold for rapid assay of enzymes using radioactive tracers and ion exchange chromatography. *Rev. Sci. Instrum.* **42**, 493–494.
- 11) Prusiner, S., Miller, R.E., and Valentine, R. (1972). Adenosine 3':5'-cyclic monophosphate control of the enzymes of glutamine metabolism in *Escherichia coli*. *Proc. Natl. Acad. Sci. U.S.A.* **69**, 2922–2926.
- 12) Deuel, T., and Prusiner, S. (1974). Regulation of glutamine synthetase from *Bacillus subtilis* by divalent cations, feedback inhibitors, and L-glutamine. *J. Biol. Chem.* **249**, 257–264.
- 13) Prusiner, S. (1975). Regulation of glutaminase levels in *Escherichia coli*. *J. Bacteriol.* **123**, 992–999.
- 14) Prusiner, S., Davis, J.N., and Stadtman, E.R. (1976). Regulation of glutaminase B in *Escherichia coli*. I. Purification, properties, and cold lability. *J. Biol. Chem.* **251**, 3447–3456.
- 15) Prusiner, S., Doak, C.W., and Kirk, G. (1976). A novel mechanism for group translocation: substrate-product reutilization by gamma-glutamyl transpeptidase in peptide and amino acid transport. *J. Cell Physiol.* **89**, 853–863.
- 16) Prusiner, S., and Stadtman, E.R. (1976a). Regulation of glutaminase B in *Escherichia coli*. II. Modulation of activity by carboxylate and borate ions. *J. Biol. Chem.* **251**, 3457–3462.
- 17) Prusiner, S.B., and Stadtman, E.R. (1976b). Regulation of glutaminase B in *Escherichia coli*. III. Control by nucleotides and divalent cations. *J. Biol. Chem.* **251**, 3463–3469.
- 18) Kirk, G., and Prusiner, S.B. (1977). Comparative studies on membranes from bovine choroid plexus and rat kidney cortex. *Life Sci.* **21**, 833–840.
- 19) Prusiner, S.B., Hadlow, W.J., Eklund, C.M., and Race, R.E. (1977). Sedimentation properties of the scrapie agent. *Proc. Natl. Acad. Sci. U.S.A.* **74**, 4656–4660.
- 20) Raskin, N.H., and Prusiner, S. (1977). Carotidynia. *Neurology* **27**, 43–46.
- 21) Baringer, J.R., and Prusiner, S.B. (1978). Experimental scrapie in mice: ultrastructural observations. *Ann. Neurol.* **4**, 205–211.

- 22) Garfin, D.E., Stites, D.P., Perlman, J.D., Cochran, S.P., and Prusiner, S.B. (1978a). Mitogen stimulation of splenocytes from mice infected with scrapie agent. *J. Infect. Dis.* **138**, 396–400.
- 23) Garfin, D.E., Stites, D.P., Zitnik, L.A., and Prusiner, S.B. (1978b). Suppression of polyclonal B cell activation in scrapie-infected C3H/HeJ mice. *J. Immunol.* **120**, 1986–1990.
- 24) Hittelman, K., Mamelok, R., and Prusiner, S.B. (1978). Preservation by freezing of glucose and alanine transport into kidney membrane vesicles. *Anal. Biochem.* **89**, 324–331.
- 25) Prusiner, P.E., and Prusiner, S.B. (1978a). Partial purification and kinetics of gamma-glutamyl transpeptidase from bovine choroid plexus. *J. Neurochem.* **30**, 1253–1259.
- 26) Prusiner, P.E., and Prusiner, S.B. (1978b). Modulation of gamma-glutamyl transpeptidase activity from bovine choroid plexus. *J. Neurochem.* **30**, 1261–1267.
- 27) Prusiner, S.B. (1978). An approach to the isolation of biological particles using sedimentation analysis. *J. Biol. Chem.* **253**, 916–921.
- 28) Prusiner, S.B., Garfin, D.E., Cochran, S.P., Baringer, J.R., Hadlow, W.J., Eklund, C.M., and Race, R.E. (1978a). Evidence for hydrophobic domains on the surface of the scrapie agent. *Trans. Am. Neurol. Assoc.* **103**, 62–64.
- 29) Prusiner, S.B., Hadlow, W.J., Eklund, C.M., Race, R.E., and Cochran, S.P. (1978b). Sedimentation characteristics of the scrapie agent from murine spleen and brain. *Biochemistry* **17**, 4987–4992.
- 30) Prusiner, S.B., Hadlow, W.J., Garfin, D.E., Cochran, S.P., Baringer, J.R., Race, R.E., and Eklund, C.M. (1978c). Partial purification and evidence for multiple molecular forms of the scrapie agent. *Biochemistry* **17**, 4993–4997.
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