

Curriculum Vitae

Name: Peter B. Dervan

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Education

1967 B.S., Chemistry; Boston College
1972 Ph.D., Chemistry; Yale University

Academic Career

1973 NIH Postdoctoral Fellow, Stanford University
1973 Assistant Professor of Chemistry, California Institute of Technology
1979 Associate Professor of Chemistry, California Institute of Technology
1982- Professor of Chemistry, California Institute of Technology
1988- Bren Professor, California Institute of Technology
1994-99 Chair, Division of Chemistry and Chemical Engineering
2020 Bren Professor of Chemistry, Emeritus

Awards

1972 Wolfgang Prize for Distinguished Graduate Studies, Yale University
1977 Alfred P. Sloan Research Fellow
1978 Camille and Henry Dreyfus Teacher-Scholar
1983 John Simon Guggenheim Memorial Fellow
1985 ACS Nobel Laureate Signature Award for Graduate Education in Chemistry
1986 Arthur C. Cope Scholar Award, American Chemical Society
1986 Elected member, National Academy of Sciences
1988 Elected member, American Academy of Arts and Sciences
1988 Harrison Howe Award, American Chemical Society, Rochester Section
1993 Arthur C. Cope Award, American Chemical Society
1993 Willard Gibbs Medal, American Chemical Society, Chicago Section
1994 Nichols Medal, American Chemical Society, New York Section
1996 Maison de la Chimie Foundation Prize, France
1997 Elected member, National Academy of Medicine
1998 Remsen Award, American Chemical Society, Baltimore Section
1998 Kirkwood Medal, American Chemical Society, New Haven Section
1999 Alfred Bader Award, American Chemical Society
1999 Max Tishler Prize, Harvard University
1999 Linus Pauling Medal, American Chemical Society, Oregon Portland Puget Sound Section
1999 Richard C. Tolman Medal, American Chemical Society, Southern California Section
2000 Elected member, French Academy of Sciences
2000 Tetrahedron Prize
2002 Elected member, American Philosophical Society
2002 Harvey Prize; Technion, Israel
2004 Elected member, German National Academy of Sciences Leopoldina
2005 Ronald Breslow Award in Biomimetic Chemistry, American Chemical Society
2005 Wilbur Cross Medal, Yale University
2007 2006 National Medal of Science
2009 Frank H. Westheimer Medal, Harvard University
2015 Prelog Medal, ETH Zurich
2020 Elected member, National Academy of Inventors
2022 Priestley Medal, American Chemical Society

Honorary Degrees

- 1997 Boston College, Doctor of Science, *honoris causa*
 2015 University of Wisconsin-Madison, Doctor of Science, *honoris causa*
 2020 Baylor College of Medicine, Doctor of Letters in Medicine

Teaching

- 1980 Associated Students of California Institute of Technology 4th Annual Award
for Excellence in Teaching
 1981 Associated Students of California Institute of Technology 5th Annual Award
for Excellence in Teaching
 2007 Associated Students of California Institute of Technology 31st Annual Award
for Excellence in Teaching

Foundation, University, Industrial Service

- 1987-13 Founding member, Scientific Advisory Board, Gilead Sciences
 1987-94 Member, Scientific Advisory Board, IGEN
 1988-21 Member, Scientific Advisory Board, Robert A. Welch Foundation
 1994-96 Member, Scientific Advisory Council, Abbott Laboratories
 1996-98 Chair, Scientific Advisory Council, Abbott Laboratories
 1998-11 Member, Board of Directors, Beckman Coulter, Inc.
 1999-04 Member, Board of Directors, GeneSoft Pharmaceuticals
 2007-08 Member, Yale University Council
 2008-17 Member, Board of Trustees, Yale University
 2013-16 Member, Board of Scientific Governors, The Scripps Research Institute
 2014-20 Member, Board of Directors, Science History Institute
 2015-21 Chair, Scientific Advisory Board, Robert A. Welch Foundation
 2018-20 Member, Board of Directors, Science History Institute

Committees and National Service

- 1985 Member, Advisory Panel for Chemistry of Life Sciences, National Science Foundation
 1986-88 Member, Advisory Committee for Chemistry, National Science Foundation
 1988-89 Chair, Advisory Committee for Chemistry, National Science Foundation
 1988-90 Member, Board on Chemical Sciences and Technology, NRC
 1991-94 Chair, Board on Chemical Sciences and Technology, NRC
 1991-94 Member, Council of the Gordon Research Conferences
 1992-94 Member, Advisory Board, Chemical & Engineering News
 1994-96 Member, Class I Membership Committee, National Academy of Sciences
 1997-99 Member, Nominating Committee, National Academy of Sciences
 2005-06 Member, Class I Membership Committee, National Academy of Sciences
 2005-08 Member, NIH SBCA Study Section
 2012-13 Member, Class I Membership Committee, National Academy of Sciences
 2014 Chair, NIH Director's New Innovator Award Review Panel
 2014-17 Chair, Chemistry Section, National Academy of Sciences

Editorial Boards

- 1981-85 Advisory Board, *The Journal of Organic Chemistry*
 1984-89 Advisory Board, *Chemical Reviews*
 1986-88 Advisory Board, *Nucleic Acids Research*
 1986-92 Advisory Board, *Journal of the American Chemical Society*
 1987-89 Advisory Board, *Accounts of Chemical Research*
 1989 Advisory Board, *Bioconjugate Chemistry*
 1991-93 Advisory Board, *Journal of Medicinal Chemistry*
 1992 Advisory Board, *Tetrahedron*
 1993 Advisory Board, *Bioorganic and Medicinal Chemistry*
 1999-02 Advisory Board, *Proceedings of the National Academy of Sciences*
 1999 Advisory Board, *Angewandte Chemie*
 2006- Advisory Board, *ACS Chemical Biology*

Visiting Professorships

- 1983 Visiting Professor, *Eidgenössische Technische Hochschule (ETH), Zurich*
 1987 T. Y. Shen Visiting Professor, *Massachusetts Institute of Technology*
 1988 Morris S. Kharasch Visiting Professor, *University of Chicago*
 1989 Alexander Todd Visiting Professor, *University of Cambridge, England*
 1990 Walker-Ames Visiting Professor, *University of Washington*
 1993 Rolf Sammet Visiting Professor, *Johann Wolfgang Goethe Universität, Frankfurt*
 1994 Smets Visiting Professor, *Université Catholique de Louvain and Katholieke Universiteit van Leuven, Belgium*
 1998 Wellcome Visiting Professor in the Basic Medical Sciences, *University of Medicine and Dentistry of New Jersey*
 2009 EaStCHEM Visiting Professor, *University of St. Andrews, Scotland*

Special Lectureships

- European Symposium on Bio-Organic Chemistry, Gregynog, Wales:* Invited Speaker (1983)
Antibiotics 1983, Jarandilla de la Vera, Spain: Invited Lecturer (1983)
Biomolecular Stereodynamics Conference, Albany, N.Y.: Invited Lecturer (1983)
Nucleic Acids Gordon Conference: Invited Speaker (1983)
Physical Organic Gordon Conference: Invited Speaker (1983)
Tenth Mona Symposium, Jamaica: Plenary Lecturer (1984)
Chemistry as a Life Science Symposium, New Jersey: Main Lecturer (1984)
Euchem Conference, France: Plenary Lecturer (1984)
Enzymes, Coenzymes and Metabolic Pathways Gordon Conference: Invited Speaker (1984)
Biopolymer Gordon Conference: Invited Speaker (1984)
Recent Developments in Organic Chemistry Symposium, ACS National Meeting, Philadelphia: Invited Lecturer (1984)
International Chemistry Congress, Hawaii: Invited Lecturer (1984)
University of North Carolina: Hanes Willis Lecturer (1985)
International Symposium on Bioorganic Chemistry, New York: Plenary Lecturer (1985)
IUPAC Congress, England: Plenary Lecturer (1985)
Cornell University: SKF Lecturer (1985)
29th National Organic Chemistry Symposium: Invited Lecturer (1985)
University of Wisconsin: McElvain Lecturer (1985)
Third International Kyoto Conference, Japan: Main Lecturer (1985)
University of Southern California, First Charles Heidelberger Seminar: Main Lecturer (1986)
Arthur C. Cope Award Symposium, Anaheim: Main Lecturer (1986)
Reisenberg Conference, Frankfurt: Main Lecturer (1986)
Pontifical Academy of Sciences, Vatican: Main Lecturer (1986)
Princeton University: FMC Lecturer (1986)
Yale University: Abbott Lecturer (1986)
Waksman Institute of Microbiology: Allied Corporation Lecturer (1987)
Euchem Stereochemistry Conference, Bürgenstock, Switzerland: Plenary Lecturer (1987)
Hirschmann Symposium, Merck: Invited Lecturer (1987)
ACS Select Conference on Advances in Biotechnology and Materials Science Washington, D.C.: Invited Speaker (1987)
Nucleic Acids Gordon Conference: Invited Speaker (1987)
University of Nevada - Reno: R. C. Fuson Lecturer (1987)
INSERM Conference, Seillac, France: Invited Speaker (1987)
Johnson Symposium, Stanford University: Invited Speaker (1987)
1987 Welch Conference, Houston, Texas: Invited Speaker (1987)
Dartmouth College: Camille & Henry Dreyfus Lecturer (1987)
Brigham Young University: H. Smith Broadbent Lecturer (1988)
Peptide Gordon Conference: Invited Speaker (1988)
International Roche Pharma Frontiers in Chemistry Meeting, Switzerland: Plenary Lecturer (1988)
Colorado State University: Syntex Distinguished Lecturer (1988)
University of Oklahoma: Rosetta Briegel Barton Lecturer (1988)
2nd Belgian Organic Synthesis Symposium: Plenary Lecturer (1988)
Office of Naval Research: ONR Distinguished Lecturer (1988)

Eastman Kodak: Weissberger-William Lecturer (1988)
University of Kansas: Dains Lecturer (1988)
National Institutes of Health: DeWitt Stetton, Jr. Lecturer (1988)
University of Wisconsin: Perlman Lecturer (1988)
31st Annual Midwest Biochemistry Conference: Keynote Address (1988)
Columbia University: Falk-Plaut Lecturer (1988)
Albert Einstein College of Medicine: Pfizer Lecturer (1988)
Frontiers in Bioorganic Chemistry, AAAS Symposium, San Francisco: Invited Lecturer (1989)
Research Perspectives in Structural Biology & Chemistry, 5th Biennial Drug Information Association Meeting, San Francisco: Invited Speaker (1989)
National Symposium on Frontiers in Science, National Academy of Sciences, Irvine: Invited Lecturer (1989)
Biotechnology and Human Genetic Predisposition to Disease, UCLA Symposia, Steamboat Springs, Colorado: Invited Lecturer (1989)
University of North Dakota: George A. Abbott Lecturer (1989)
1st Stanislao Cannizzaro Workshop, Enna, Italy: Invited Lecturer (1989)
Biomolecular Stereodynamics Conference, Albany, N.Y.: Invited Lecturer (1989)
Nucleic Acids Gordon Conference: Chairman (1989)
Heterocycles Gordon Conference: Invited Speaker (1989)
Fourth International Conference on Bioinorganic Chemistry, Cambridge: Invited Lecturer (1989)
Protein Society Meeting, Seattle: Plenary Lecturer (1989)
Dedication Symposium, University of Michigan: Plenary Lecturer (1989)
Pennsylvania State University: Priestley Lecturer (1989)
McGill University: Clifford B. Purves Lecturer (1989)
Oxygen Radicals in Biology Gordon Conference: Invited Speaker (1990)
Frontiers in Biomedical Research, Annenberg Center: Invited Speaker (1990)
Texas A&M University: *Frontiers in Chemical Research Lecturer* (1990)
Boston College: University Lecturer (1990)
Symposium on Selective Transformation in Organic Chemistry, The Netherlands: Invited Speaker (1990)
University of Washington: Walker-Ames Lecturer (1990)
10th IUPAC Conference on Physical Organic Chemistry, Haifa, Israel: Plenary Lecturer (1990)
Genes as Targets for Drug Design, ACS National Medicinal Chemistry Symposium: Invited Lecturer (1990)
Symposium on the Chemical Synthesis of Antibiotics, Oiso, Japan: Plenary Lecturer (1990)
Vanderbilt University: Arthur Ingersoll Lecturer (1990)
Metals in Biology Gordon Conference: Invited Speaker (1991)
35th Annual Meeting of the Biophysical Society, San Francisco: Invited Speaker (1991)
University of Montreal: BioMega Lecturer (1991)
Furman University: John Albert Southern Lecturer (1991)
Cancer Therapy into the 21st Century Symposium: Plenary Lecturer (1991)
Hoffmann La Roche: Max Hoffer Memorial Lecturer (1991)
Purdue University: H. C. Brown Lecturer (1991)
Carlton College: Frank G. and Jean M. Chesley Lecturer (1991)
University of California, Berkeley: Calvin Lecturer (1991)
Nucleic Acids Gordon Conference: Invited Speaker (1991)
32nd National Organic Symposium, Minnesota: Invited Speaker (1991)
Conference Jacques Monod "Drugs Acting on Nucleic Acids," Roscoff, France: Invited Lecturer (1991)
Stereochemistry at Sheffield, England: Invited Speaker (1991)
23rd General Assembly of Gesellschaft Deutscher Chemiker, Munich, Germany: Invited Speaker (1991)
Frontiers in Chemistry and Medicine Symposium, Glaxo UNC Conference: Invited Speaker (1991)
University of Notre Dame: Reilly Lecturer (1991)
Atlantic Coast Lecturer (1992)
Symposium on Molecular & Genetic Medicine, Stanford: Invited Speaker (1992)
Michigan State University: Warner-Lambert Distinguished Lecturer (1992)
University of Minnesota: Kolthoff Lecturer (1992)
Frontiers in Chemical Research Symposium, Boston College: Invited Speaker (1992)
University of California, Santa Barbara: B. R. Baker Memorial Lecturer (1992)
Reaction Mechanism Conference: Invited Speaker (1992)
Bioorganic Gordon Conference: Invited Speaker (1992)
Progress in Natural Products Symposium, Nottingham, England: Plenary Lecturer (1992)
Molecular Recognition, National Academy of Sciences Colloquium: Invited Speaker (1992)

Washington State University: Carl M. Stevens Lecturer (1992)
Fifth IASOC Conference, Ischia, Italy: Invited Speaker (1992)
San Jose State University: H. Murray Clark Memorial Lecturer (1992)
The Scripps Research Institute: DuPont-Merck Lecturer (1992)
University of Illinois: Eli-Lilly Lecturer (1992)
Rutgers University: Merck Lecturer (1992)
University of Iowa: Wawzonek Lecturer (1992)
Frontiers of Physical Science, AAAS Meeting, Boston: Invited Lecturer (1993)
DNA & Biotechnology: A Celebration of 40 Years of the Double Helix, Cold Spring Harbor Laboratory: Invited Lecturer (1993)
Neue Schweizerische Chemische Gesellschaft, Zurich: Invited Lecturer (1993)
University of Pittsburgh: Phillips Lecturer (1993)
Arizona State University: Eyring Lecturer (1993)
Symposium on the Interface of Chemistry & Biology, Merrell Dow: Invited Lecturer (1993)
ASBMB-ACS Symposium "40 Years After the Double Helix," San Diego: Invited Lecturer (1993)
IUPAC 2nd ISBOC, Fukuoka, Japan: Invited Lecturer (1993)
Johann Wolfgang Goethe Universitat, Frankfurt: Rolf Sammet Lecture (1993)
DNA Recognition Symposium, Copenhagen: Invited Lecturer (1993)
Northwestern University: Myron and Muriel Bender Lecturer (1993)
Yale University: Leo Sternbach Lecturer (1993)
Université Catholique de Louvain, and Katholiek Universiteit van Leuven, Belgium: Smets Chair Lecturer (1994)
114th Annual Meeting of Pharmaceutical Society of Japan, Tokyo: Plenary Lecturer (1994)
1994 Nichols Award Symposium: Medal Lecturer (1994)
Symposium on Recognition Processes, Birmingham, UK: Keynote Speaker (1994)
Pennsylvania State University: Thomas J. Watson, Jr. Lecturer in Molecular Biology (1994)
Universities of Sydney and New South Wales, Australia: Inaugural Howard Lecturer (1994)
Northeastern University: Arthur D. Little Lecturer (1994)
Florida Institute of Technology: Harold Blatt Lecturer (1994)
The University of Texas at Austin: Pettit Memorial Lecturer (1994)
New Frontiers Between Chemistry and Biology, Madrid, Spain: Juan March Lecturer (1995)
NATURE 3rd International Conference - The Science of Complex Molecular Systems, Paris: Invited Speaker (1995)
University of California, San Francisco: Troy C. Daniels Lecturer (1995)
Nucleic Acids Gordon Conference: Invited Speaker (1995)
Chemistry at the Interface of Biology and Medicine, Beckman Research Institute of the City of Hope: Plenary Lecturer (1995)
International Chemical Congress, Symposium on Molecular Recognition and Supramolecular Assemblies, Honolulu: Invited Speaker (1995)
Memorial Sloan-Kettering Cancer Center: Inaugural Jack Fox Lecturer (1996)
Contemporary Challenges in Molecular Medicine, Parke-Davis: Plenary Lecturer (1996)
FASEB Summer Research Conference, Enzymes that Act on Nucleic Acids: Invited Speaker (1996)
European Research Conference on Supramolecular Chemistry, Salamanca, Spain: Plenary Lecturer (1996)
20th IUPAC Symposium on the Chemistry of Natural Products, Chicago: Plenary Lecturer (1996)
North Jersey Section, ACS: Cecil L. Brown Lecturer (1996)
Frontiers in Chemical Biology Symposium, Harvard Medical School: Invited Speaker (1996)
Fifth Eurasia Conference, Guangzhou, China: Plenary Lecturer (1996)
Brown University: Leallyn B. Clapp Lecturer (1997)
Case Western Reserve University, Frontiers in Chemistry: Invited Lecturer (1997)
6th French-American Chemical Society Meeting on Synthetic and Bioorganic Chemistry, Tucson: Plenary Lecturer (1997)
Saint Vincent College: Threshold on the Twenty-First Century Lecturer (1997)
Harvey Mudd College 1997 Presentation Day: Keynote Address (1997)
Biomolecular Stereodynamics Conference, Albany, NY: Invited Lecturer (1997)
17th IUBMB/ASBMB Congress, Science for the 21st Century, San Francisco: Invited Lecturer (1997)
Chemistry: A Life Science, National Institutes of Health, Bethesda: Invited Speaker (1997)
Scientist of the Year: ARCS Foundation Lecturer (1997)
63rd Meeting of the Israel Chemical Society, Tel Aviv: Plenary Lecturer (1998)
Challenges for Chemistry in the 21st Century, ACS National Meeting, Dallas: Invited Lecturer (1998)
Gene-Targeted Drugs: Function & Delivery, Nobel Workshop, Stockholm: Invited Speaker (1998)
Wellcome Lecture, UMD, New Jersey (1998)

Decoding Genetic Function, Josel Fried Symposium, Chicago: Plenary Speaker (1998)
International Symposium on Molecular Recognition, Warsaw, Poland: Plenary Lecturer (1998)
Silver Jubilee FEBS Meeting, Copenhagen: Invited Speaker (1998)
Yale University: John Gamble Kirkwood Award Lecturer (1998)
University of Ottawa, Canada: Lemieux Lecturer (1998)
25th Anniversary Celebration of the Cope Award, ACS Anaheim: Invited Speaker (1999)
Alfred Bader Award Symposium, ACS Anaheim: Award Lecturer (1999)
 Five College Chemistry Lecturer (1999)
Harvard University: Max Tishler Prize Lecturer (1999)
Chemistry for Health, Royal Society of Chemistry, Edinburgh: Plenary Lecturer (1999)
Pauling Award Symposium, Oregon: Award Lecturer (1999)
Frontiers in Bioorganic Chemistry-2000, Taipei, Taiwan: Invited Speaker (1999)
Transcription Factor Pathogenesis of Cancer at the Millennium, AACR Conference, Dana Point, CA:
 Invited Speaker (2000)
Trinity University: McGavock Lecturer (2000)
University of Nebraska: C. S. Hamilton Award Lecture (2000)
100 Jahre Chemische Institute in der Hessische Strasse, Berlin: Invited Speaker (2000)
University of California, Irvine: Robert W. Taft Memorial Lecturer (2000)
Texas Tech University: Henry J. Shine Endowment Lecturer (2000)
Pierce College: Frontiers in Science Lecturer (2000)
University of Saskatchewan: J.W.T. Spinks Lecturer (2001)
International Meeting on Recognition Studies in Nucleic Acids, Sheffield: Plenary Lecturer (2001)
Johns Hopkins University School of Medicine: Charles E. Dohme Memorial Lecturer, "Chemistry in the
 Service of Medicine" (2001)
Iowa State University: Henry Gilman Lecturer (2001)
Conference on Fundamental Sciences, Singapore: Public Lecturer (2001)
ACS National Meeting, Chicago: Tetrahedron Prize Award Lecturer (2001)
Sixteenth Annual William S. Johnson Symposium, Stanford University: Invited Speaker (2001)
Frontiers in Molecular Sciences: Nobel Jubilee Symposium in Chemistry, Stockholm: Invited Lecturer
 (2001)
Texas A&M University: Derek Barton Lecturer (2002)
University of Illinois: Marvel Lecturer (2002)
University of Rochester: Rothchild Lecturer (2002)
7th ICSN Symposium, Gif-sur-Yvette, France: Invited Speaker (2002)
Harvey Prize Lecture: Haifa, Israel (2002)
Bioorganic Gordon Research Conference: Invited Speaker (2002)
Frontiers in Organic Chemistry, Colorado State University: 6th John K. and Delores Stille Science
 Symposium: Invited Speaker (2002)
Presidents Research Seminar Series: Memorial Sloan-Kettering Cancer Center: Invited Speaker (2002)
International Symposium on Nucleic Acids; From Bases to Genomics, Paris: Plenary Lecturer (2003)
Interface between Chemistry and Biology Symposium, Biomedical Center at Uppsala University, Sweden:
 Invited Speaker (2003)
University of Alberta: 41st Reuben Benjamin Sandin Lecturer (2003)
Washington University, St. Louis: 44th Joseph W. Kennedy Lecturer (2003)
Frontiers in DNA Research, ACS National Meeting, New York: Invited Speaker (2003)
Symposium on Nucleic Acids, Yale University: Invited Speaker (2003)
Technical University of Berlin: Bohlmann Lecturer (2003)
Chemistry & Biology of Peptides Gordon Conference: Invited Speaker (2004)
Special Symposium for Dieter Seebach, Zürich: Invited Speaker (2004)
Oxford University, United Kingdom: Robert Robinson Memorial Lecturer (2004)
McGill University, Montreal: Merck Lecturer (2004)
University of Rochester: Victor J. Chambers Memorial Lecturer (2004)
Georgia Institute of Technology: Peter B. Sherry Memorial Lecture (2004)
University of Michigan: Werner E. Bachmann Memorial Lecturer (2004)
15th International Conference of Organic Synthesis, Nagoya, Japan: Plenary Lecturer (2004)
Drug Carriers in Medicine & Biology Gordon Conference: Invited Speaker (2004)
Ronald Breslow Award Symposium, ACS San Diego: Award Lecturer (2005)
Virginia Commonwealth University: Mary E. Kapp Lecturer (2005)
Biomolecular Stereodynamics Conference, Albany, New York: Invited Lecturer (2005)
Chemistry Meets Biology, Spetses, Greece: Invited Lecturer (2005)
Pacificchem 2005, Honolulu, New Age of Advanced Materials Symposium: Invited Lecturer (2005)
ACS-CSIR International Conference on Building Bridges for 21st Century Organic Chemistry and

Chemical Biology, Pune, India: Plenary Lecturer (2006)
Knud Lund Larson Symposium, Organic Chemistry at the Interface to Biology, Copenhagen: Invited Speaker (2006)
Harvard Medical School: Otto Krayler Lecturer (2006)
University of Pennsylvania: Bayer Student Organic Lecturer (2006)
2nd International Symposium: Molecular Control of Gene Expression, Erlangen, Germany: Keynote Lecturer (2006)
Challenges in Organic Chemistry, Eighth Tetrahedron Symposium, Berlin: Plenary Speaker (2007)
ETH Zurich: Behringer Simon Lecture (2007)
Conway Festival of Research, University College Dublin, Dublin: Invited Speaker (2007)
University of California, Davis: R. Bryan Miller Plenary Lecturer (2008)
University of Manchester, United Kingdom: T. Y. Shen Lecturer (2008)
International Symposium in Molecular Recognition of DNA: Biological Applications, Tokyo: Plenary Lecturer (2008)
University of Illinois, Urbana: Rinehart Lecturer in Chemical Biology (2008)
University of St. Andrews, Scotland: Organic Chemistry meets Chemical Biology Symposium: Invited Speaker (2009)
University of Wisconsin, Madison: 33rd Steenbock Symposium: Invited Speaker (2009)
K. T Wang Bio-organic Chemistry Lectureship, Taiwan (2009)
Frank H. Westheimer Prize Medal Lecture, Harvard (2010)
33rd Reaction Mechanisms Conference, UMass: Invited Speaker (2010)
Molecular Recognition of Nucleic Acids: Pacifichem, Honolulu: Invited Speaker (2010)
25 Years of the Committee on Professional Training, ACS Meeting, Anaheim: Invited Speaker (2011)
Stanford University: Sessler Distinguished Alumni Lecturer (2011)
Gibbs Medal Centennial, ACS Meeting, Denver: Invited Speaker (2011)
Goodman Award Symposium, ACS Meeting, Denver: Invited Speaker (2011)
Harvey Mudd College: Bruce J. Nelson '74 Distinguished Speaker (2011)
Frontiers in Nucleic Acid Chemistry, Biology and Drug Discovery, ACS Meeting, San Diego: Invited Speaker (2012)
Paris Foldamers 2013 Symposium, Les Cordeliers, Paris, France: Invited Speaker (2013)
St. Louis University: Sigma-Aldrich Lecturer (2013)
Dana-Farber Cancer Institute: Susan Swerling Lecturer (2013)
Fundamentals in Chemistry and Applications Symposium, NTU, Singapore: Invited Speaker (2013)
35th Annual Princeton ACS Fall Organic Chemistry Symposium, Princeton: Invited Speaker (2013)
25th Annual Frontiers in Chemistry Symposium, The Scripps Research Institute: Invited Speaker (2014)
247th ACS National Meeting and Exposition, Dallas: ACS Chemical Biology Lecturer (2014)
University of Wisconsin, Madison: Hirschmann Lecturer (2014)
University of Virginia: Sidney Hecht Lecturer (2014)
Tetrahedron Prize Symposium, ACS Meeting, San Francisco: Invited Speaker (2014)
Rice University: Richard B. Turner Lecturer (2015)
Southwestern University: Jean Dreyfus Boissevain Lecturer (2015)
Frontiers of Molecular Science Symposium, Chalmers University, Sweden: Invited Speaker (2015)
ETH Zurich: Prelog Medal Lecture (2015)
16th Joseph F. Bunnett Symposium, UC, Santa Cruz: Invited Speaker (2016)
University of California, Irvine: Overman Lecturer (2016)
University of California, Los Angeles: Glenn Seaborg Symposium: Invited Speaker (2016)
University of Illinois, Urbana: Nelson Leonard Centennial Symposium: Invited Speaker (2017)
City of Hope, Duarte: Arthur D. Riggs Distinguished Lecturer (2017)
The Salk Institute, La Jolla: Leslie Orgel Lecturer (2017)
Peptides Gordon Conference: Keynote Lecturer (2018)
19th Tetrahedron Symposium, Lake Garda, Italy: Plenary Lecturer (2018)
A. I. Scott Medal Symposium, Texas A&M University: Invited Speaker (2018)
California Institute of Technology: John D. Roberts Lecture (2019)