Institute for Systems Biology

DR. LEROY E. HOOD
Curriculum Vitae

Business Address: Institute for Systems Biology
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Seattle, Washington 98109
Phone: (206) 732-1201 Fax: (206) 732-1260
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E-mail: lhood@systemsbiology.org

Date and Place of Birth: Missoula, Montana - October 10, 1938

Citizenship: United States

Marital Status: Married 1963, two children

Education:

1960 - B.S.	California Institute of Technology (Biology)
1964 - M.D.	The Johns Hopkins School of Medicine (Medicine)
1968 - Ph.D.	California Institute of Technology (Biochemistry) - Immunoglobulins: Structure, Genetics, and Evolution

Research Interests:
Systems biology and medicine
Genomics
Technology development
Personalized medicine cancer
Neurodegeneration
Clinical assays

Non-Scientific Interests:
Mountaineering and climbing
Photography
Running
Science fiction

Professional Experience:

1963-1964	NIH Predoctoral Fellowship, California Institute of Technology
1964-1967	NIH Postdoctoral Fellowship, California Institute of Technology
1967-1970	Senior Investigator, Immunology Branch, GL&C, NCI, National Institutes of Health, Bethesda, MD
1970-1973	Assistant Professor of Biology, California Institute of Technology
1973-1975	Associate Professor of Biology, California Institute of Technology
1975-1977	Professor of Biology, California Institute of Technology
1977-1992	Bowles Professor of Biology, California Institute of Technology
1980-1989	Chairman, Division of Biology, California Institute of Technology
1981-1990	Director, Cancer Center, California Institute of Technology
1989-1992	Director, NSF Science and Technology Center for Molecular Biotechnology, California Institute of Technology

1992-2000	Director, NSF Science and Technology Center for Molecular Biotechnology, University of Washington
1992-1999	William Gates III Professor, Chairman & Founder, Department of Molecular Biotechnology, School of Medicine, University of Washington
1992-1999	Professor, Departments of Bioengineering and Immunology; Adjunct Professor, Departments of Medicine and Computer Science, University of Washington
1999-Present	Professor at Large, Keck Graduate Institute of Applied Life Sciences
1999-Present	President and Co-founder, Institute for Systems Biology
2000-Present	Affiliate Professor, Departments of Bioengineering, Computer Science, and Immunology, University of Washington
2002-Present	Affiliate Professor, Department of Microbiology & Immunology, University of British Columbia
2004-Present	Full Faculty Member, University of Washington Molecular and Cellular Biology Program
2016-Present	Senior Vice President and Chief Science Officer, Providence St. Joseph Health

Academic and Professional Honors:

1960	Hinrichs Memorial Award, Caltech: Outstanding Student Leader
1960	B.S. with Honors, Caltech
1963	Alpha Omega Alpha, Johns Hopkins Medical School
1971-76	NIH Career Development Award
1974	Camille and Henry Dreyfus Teacher-Scholar Grant
1977	Endowed Professorship: The Ethel Wilson Bowles and Robert Bowles Professor of Biology
1980	Howard Taylor Ricketts Medal, University of Chicago: Outstanding Accomplishment in the Medical Sciences
1981	Bridges Award, ARCS Foundation: Communication of Science to the General Public
1982	Harvey Lecturer, The Rockefeller University
1984	3M Life Sciences Award: Significant Contributions to the Health and Welfare of Mankind
1985	The Ernst W. Bertner Memorial Award, The University of Texas System Cancer Center, University of Texas at Houston
1985	California Scientist of the Year
1985	One of the Science Digest's 100 Top Innovators: Development of Highly Sophisticated Instruments for the Synthesis and Analysis of Genes and Proteins
1986	Analytical Prize, German Society for Clinical Chemistry Award: "The Development of Microchemical Facilities for High-Sensitivity Protein Sequencing
1986	Doctor of Science Honorary Degree, Montana State University, Bozeman, Montana
1987	Louis Pasteur Award for Medical Innovation: "Studies that Bring New Perceptions of Nature and Impact Medicine in the Future
1987	Fellow of the American Association for the Advancement of Science: "Studies in Molecular Immunology and the Development of Techniques in Protein and Nucleic Acid Chemistry
1987	ARCS' Man of Science for Pioneering Research: "Deciphering the Message of DNA"
1987	Isco Award for Significant Contributions to the Field of Biochemical Instrumentation, University of Nebraska-Lincoln
1987	Doctor of Science Honorary Degree, Mt. Sinai School of Medicine of the City University of New York
1987	Dickson Prize in Medicine for Contributions to Immunology and Molecular Biology
1987	Albert Lasker Basic Medical Research Award for Studies of Immune Diversity
1988	Distinguished Service Award of the 1988 Miami BIO/TECHNOLOGY Winter Symposium for Pioneering the Automation of Protein and DNA Sequencing and Synthesis
1988	Rabbi Shai Shacknai Memorial Prize in Immunology and Cancer Research, Hebrew University
1988	Doctor of Science Honorary Degree, University of British Columbia, Vancouver
1989	Commonwealth Award of Distinguished Service for Work in Developing Instruments Used to Study Modern Biology and Medicine
1989	Doctor of Science Honorary Degree, University of Southern California, Los Angeles, California
1989	The Cetus Award for Biotechnology, ASM
1989	Steven C. Beering Award, Indiana University School of Medicine

1990 Doctor of Humane Letters Honorary Degree, Johns Hopkins University
1990 American College of Physicians Award for Distinguished Contributions in Science as Related to Medicine
1991 Franz Groedel Medal, American College of Cardiology
1992 Fellow of the International Institute of Biotechnology, Canterbury, Kent, UK
1992 Fifth Annual Duke University Award for Immunologic Research
1992 Doctor of Science Honorary Degree, Wesleyan University
1993 Scientist of the Year, Research and Development Magazine
1993 Initiatives in Technology Award, Partners in Public Education
1993 CIBA-GEIGY DREW Award in Biomedical Research, Drew University
1994 Lynen Medal, Miami Bio/Technology Winter Symposium
1994 Johns Hopkins University Distinguished Alumnus Award
1994 American Association for Clinical Chemistry National Lectureship Award
1994 National Biotechnology Venture Award
1995 Honorary Doctorate of Science, Whitman College, Walla Walla, WA
1997 UCLA Gold Medal for Contributions to Science and Medicine
1997 Fellow of the American Academy of Microbiology
1997 Laguna Niguel Hall of Fame Award for Development of Automated Sequencing and Synthesis of DNA
1998 Beckman Lecturer Award, Association for Laboratory Automation for Pioneering and Original Research in Automation
1998 Distinguished Service Award, National Association of Biology Teachers
1999 Honorary Elected Member, American Association for Clinical Chemistry
1999 Forbes Magazine's Top 25 Most Influential Biotech Leader
1999 Honorary Doctorate of Science, Bates College, Lewiston, ME
2000 Edman Award, Methods of Protein Structure Analysis (MPSA) 13th International Congress, Charlottesville, Virginia
2001 The New York Academy of Medicine Award for Discovery in the Service of Health, New York, NY
2001 The Society for Biomolecular Screening (SBS) Award for Achievement in Biomolecular Screening and Lead Discovery
2001 Dudley Smith Licensing Lecture Award, the Licensing Executives Society (LES)
2001 Honorary Doctorate of Science, The Pennsylvania State University, University Park, PA
2001 The Seattle Times MetropoLIST 150: Most Influential People Who Shaped Seattle in the Past 150 Years
2002 Discover Magazine's 20 Biotech Geniuses
2002 Kyoto Prize in Advanced Technology
2002 *The Economist* Innovation Award for Bioscience
2002 Genome Technology Allstar, Most Outstanding in Sequencing Technology
2002 George R. Stibitz Computer Pioneer Award, Bozeman, MT
2003 Andrew C. von Eschenbach Lecture Award, 10th Annual Genitourinay Oncology Conference, University of Texas MD Anderson Cancer Center, Houston, TX
2003 Lemelson-MIT Prize for Invention and Innovation, Cambridge, MA
2003 World Technology Award for Biotechnology
2003 Howard Vollum Award for Distinguished Accomplishment in Science & Technology, Reed College, Portland, OR
2004 Biotechnology Industry Organization (BIO) and Chemical Heritage Foundation (CHF) 6th Annual Biotechnology Heritage Award, San Francisco, CA
2004 Association for Molecular Pathology (AMP) Award for Excellence in Molecular Diagnostics, Los Angeles, CA
2004 Honorary Professor, Zhejiang University, China
2004 Honorary Professor, Tsinghua University, China
2004 Honorary Director, Medical Systems Biology Research Center, Tsinghua University School of Medicine, China
2005 Distinguished Biomedical Science Achievement Award in Recognition of Pioneering Developments in Molecular Biotechnology, Oakland University, Center for Biomedical Research, Rochester, MN
2005 Doctor of Human Letters, Honoris Causa, Loyola University, Chicago, IL
2005 Honorary Doctorate of Science, Medical College of Wisconsin, Milwaukee, Wisconsin

2005 Degree of Doctor Honoris Causa, Ben-Gurion University of the Negev, Beer-Sheva, Israel
2005 Bio-IT World Best Practices Award for Developing Automated Biological Instrumentation, and for Pioneering the Field of Systems Biology
2005 *Seattle Magazine's* 25 Most Influential People of the Year
2005 Biomedicum Helsinki Foundation Award, Helsinki, Finland
2006 Associate Member of European Molecular Biology Organisation
2006 Heinz Award for pioneering work in Systems Biology
2006 Wharton – Infosys Business Transformation Award
2007 American Society of Cytopathology - Basic Science Lectureship Award
2007 Inducted into National Inventor's Hall of Fame
2007 Society for Surgical Oncology – Basic Science Award
2007 Honorary Doctorate of Science, College of Wooster, Wooster, Ohio
2007 LASER/Boeing Science Advocate Award in Appreciation of Outstanding Efforts for Science Education (K-12) Advocacy
2007 Fellow of the Institute of Systems and Synthetic Biology, Imperial College, London
2008 Honorary Doctorate of Science, University of Edinburgh, Edinburgh Scottland
2008 Pittcon Heritage Award, Pittsburgh Conference and the Chemical Heritage Foundation
2008 Cura Personalis Award for Outstanding Contributions to Human Health Guided by Compassion and Service, Georgetown University
2008 Wired Magazine's 2008 Smart List: 15 people the Next President Should Listen To
2009 100 Agents of Change, Rolling Stone magazine (April 2, 2009 edition)
2009 Honorary Doctor of Science (Hon DSc), University of Warwick, England
2009 Outstanding Achievement and Innovation in Life Sciences, Seattle Business Magazine, Leaders in Health Care
2010 Heath Memorial Award, (awarded for contributions to patient care through clinical application of basic cancer knowledge) University of Texas, MD Anderson Cancer Center
2010 The Kistler Prize, (awarded for increasing the knowledge and understanding of the relationship between the human genome and society) Foundation for the Future, Seattle, WA
2010 Honorary Professor, College of Biology and Biotechnology, Hunan University, Changsha, China
2010 Distinguished Alumni Award, California Institute of Technology
2011 National Academy of Engineering, 2011 Fritz J. and Delores H. Russ Prize for automating DNA sequencing that revolutionized biomedicine and forensic science
2011 Honorary Doctor of Science (Hon DSc) from Mount Sinai School of Medicine
2011 Chinese Academy of Science Einstein Professorship, awarded to distinguished international scientists actively working on the frontiers of science and technology
2011 Personalized Medicine Coalition award for distinguished leadership advancing the frontiers of personalized medicine
2011 BioMed SA Julio Palmaz award given to an internationally recognized innovator having made significant contributions to the biomedical industry by putting novel ideas into action with transformational results
2011 National Medal of Science (awarded in 2012)
2012 Honorary member of the Society of Toxicology
2012 National Academy of Inventors, Charter Fellow
2013 Future in Review, CEO of the year
2013 Alvin J. Thompson Award for Leadership in K-12 education and science (awarded by NW Assoc. for Biomed Research)
2013 Fellow, American Association for Cancer Research (AARC)
2013 Peking University Global Fellowship Award
2013 Honorary Professorship - Peking University
2013 Seven Over 70 Best Innovators in MIT Technology Review Magazine
2014 Geoffrey Beene Builders of Science award presented by Research!America
2014 Institute of Electrical and Electronics Engineers Medal for Innovations in Healthcare Technology
2014 Named by The Best Schools one of the 50 Most Influential Scientists in the World
2015 The Johns Hopkins University Alumni Association Global Achievement Award

2015 Named by Scientific American #6 among the Top 100 Biotech Visionaries Worldwide
2016 Ellis Island Medal of Honor
2016 University College Dublin Ulysses Medal

Memberships in Professional Organizations:
American Academy of Arts and Sciences
American Academy of Microbiology (American Society for Microbiology), Fellow
American Association for the Advancement of Science
American Association for Clinical Chemistry, Honorary Member
American Association of Immunologists
American Chemical Society
American Institute for Medical and Biological Engineering (AIMBE), College of Fellows
American Medical Association
American Philosophical Society
American Society for Biochemistry and Molecular Biology
Association of American Physicians
Association for Laboratory Automation
European Molecular Biology Organization
Institute of Medicine
National Academy of Sciences
International Society of Molecular Evolution
National Academy of Engineering
Sigma Xi
Society for Integrative and Comparative Biology
World Technology Network, Fellow

Lectureships:
1974 Welch Foundation Conference on Chemical Research, Houston
1977 Distinguished Lectureship, Department of Zoology, University of Texas-Austin
1979 Mary Huling Edens Lecturer in Medical Genetics, Galveston
1980 Philips Lecturer, Haverford
1980 Howard Taylor Ricketts Lecturer, University of Chicago
1980 Camille and Henry Dreyfus Lecturer, Pomona College
1980 Kinyoun Lecturer, National Institutes of Health
1980 Smith Kline and French Lecturer, Vanderbilt University
1981 Dan Campbell Lecturer, Asilomar
1981 Michael Heidelberger Lecturer, Columbia University
1981 Shaffer Lecturer, Washington University School of Medicine
1981 Watkins Lecturer, Wichita State University
1981 Stanhope Bayne-Jones Memorial Lecturer, Johns Hopkins Medical School
1981 Burroughs Wellcome Lecturer, Mt. Sinai Medical School
1981 Jesse Beams Memorial Lecturer, University of Virginia Medical School
1981 Robert W. Woodruff Lecturer, Emory University
1982 John M. Chemerda Lecturer, The Pennsylvania State University
1982 Marrs McLean Lecturer, Baylor College of Medicine
1982 Carter-Wallace Lecturer, Princeton University
1982 Smith-Kline Lecturer, Philadelphia
1982 Sommer Memorial Lecturer, Portland
1982 Dreyfus Distinguished Lecturer, Indiana University
1982 Visiting Professor of Biochemistry, University of California, Riverside
1982 Dreyfus Distinguished Lecturer, St. Olaf College

1983 Linus Pauling Lecturer, Stanford University
1983 Wendell Griffith Lecturer, St. Louis University
1983 Syme Lecturer, Walter and Eliza Hall Institute of Medical Research, Melbourne
1983 Allied Lecturer, Rutgers University
1983 Smith Kline and French Lecturer, University of California, San Francisco
1983 Benjamin Knox Rachford Memorial Lecturer, University of Cincinnati
1983 Belfort Lecturer, Purdue University
1983 Stuart Memorial Lecturer, Brown University
1984 Charles Heidelberger Memorial Lecturer, University of Southern California
1984 Albert Coons Memorial Lecturer, Harvard Medical School
1984 Nellie Fox Distinguished Lecturer, Northwestern Medical School
1984 President's Lecturer, Texas A&M
1986 J.S. Blumenthal Lecturer, University of Minnesota
1986 Wellcome Visiting Professor, University of Michigan
1986 Barton Lecturer, University of Oklahoma
1986 Maurice Ogur Memorial Lecturer, Southern Illinois University at Carbondale
1986 Nieuwland Lecturer in Biological Sciences, the University of Notre Dame
1986 R.E. Dyer Lecturer, Bethesda, Maryland
1987 Rennebohm Lecturer, University of Wisconsin, Madison
1987 The Committee of the Interscience Conference on Antimicrobial Agents and Chemotherapy Lecturer, New York
1987 Albert M. Snell Memorial Lecturer, Research Institute, Palo Alto Medical Foundation
1987 The 1987 Benedum Lecturer, West Virginia University
1987 Herman Beerman Lecturer, The Society for Investigative Dermatology
1988 Rabbi Shai Shacknai Memorial Prize Lectureship, Hebrew University
1988 James M. Craig Memorial Lecturer, Oregon State University
1989 Wayne State University Distinguished Lecturer for the Center of Molecular Biology
1989 H. Willard Davis Lecturer, The University of South Carolina
1989 The Cape Lecturer, McGill University
1989 Jeanette Oshman Efron Lecturer in Molecular Genetics, Baylor College of Medicine
1989 Myron Karon Lecturer, Childrens Hospital of Los Angeles
1989 Los Angeles Society of Pathologists Lecturer, Los Angeles
1990 Visiting Scholar, National Institute of Dental Research, NIH
1990 John G. Reinhold Lecturer, University of Pennsylvania
1990 Bristol Myers Lecturer, University of Colorado, Boulder
1990 Hobart H. Willard Lectureship in Analytical Chemistry, University of Michigan
1990 Roy and Eva Hong Lectureship in Molecular Biology, University of Illinois
1990 Jeanette Piperno Memorial Lectureship, Temple University
1990 Microbiology Graduate Students Distinguished Lecturer, Iowa State University
1990 Basil Staples Visiting Professorship, University of Maine
1990 Bren Fellows Lectureship, University of California, Irvine
1991 Leo S. Weil Memorial Lecturer, Touro Infirmary, Tulane Medical Center and Louisiana State University Medical Center, New Orleans
1991 Jessie & John Danz Lectureship, University of Washington
1991 Kosuge Memorial Lectureship, University of California, Davis
1991 Franz Groedel Lecturer, Opening Plenary Session, American College of Cardiology
1991 Hoffman-LaRoche Lectureship in Microbiology, the Waksman Institute, Rutgers University
1991 The Aser Rothstein Lecturer, Research Institute of the Hospital for Sick Children, Toronto, Canada
1991 Distinguished Medical Scientist Lecturer, Ohio State University
1991 Richard S. Polacsek Lecturer, Welch Medical Library, Johns Hopkins University
1992 William Weigle Memorial Lecturer, Scripps Research Institute
1993 Hooke Lecturer, XVI Congress of the Int'l Society for Analytical Cytology

1993 Serono Lecturer, American Society of Andrology
1993 Beirne B. Carter Lecturer in Immunology, University of Virginia
1993 Charles C. & Mary Elizabeth Lovely Verstandig Distinguished Visiting Professor, University of Tennessee Memphis
1994 Feodor Lynen Lecturer, The Miami Bio/Technology Winter Symposium
1994 Dennis Memorial Lecturer, Baylor College of Medicine
1994 Baker Lecturer, American Laryngological Association
1994 R.V. Pole Memorial Lecturer, Conference on Lasers and Electro-Optics
1994 Ramon Guiteras Lecturer, American Urological Association, Inc.
1994 Ernest Cotlove Lecturer, Academy of Clinical Laboratory Physicians and Scientists
1994 Lansdowne Lecturer, University of Victoria
1994 Zickler Lecturer, State University of New York at Stony Brook
1995 Howard Steel Lecturer, Pediatric Orthopaedic Society of North America
1995 Phi Beta Kappa Lecturer, Whitman College
1995 Paulette Shirley Pritchett Lecturer, University of Alabama at Birmingham
1995 Matthew T. Moore Distinguished Lecturer, American Association of Neuropathologists
1995 Neel Distinguished Research Lecturer, American Academy of Otolaryngology Head and Neck Surgery
1995 I.S. Ravdin Lecturer in Basic Sciences, Clinical Congress of the American College of Surgeons
1995 Pokar Kabra Lecturer, University of California, San Francisco
1996 Watkins Visiting Professor, Wichita State University
1996 Marlene DeLuca Memorial Lecturer , University of California, San Diego
1996 O'Leary Visiting Scientist Lecturer, Gonzaga University
1996 Leach Lecturer, Lorne Conference on Protein Structure and Function, Lorne, Australia
1997 John P. McGovern Lecturer, Baylor College of Medicine
1997 Harvey Lecturer, Rockefeller University
1997 Takeru Higuchi Memorial Lecturer, University of Kansas, Lawrence
1997 Tadeus J. Wiktor Memorial Lecturer, The Wistar Institute, Philadelphia
1998 Walter J. Burdette Lecturer in Medical Science, Yale University Maurice M. Burkholder Lectureship in Oncology, Mountain States Medical Research Institute
1998 Eli Lilly Visiting Lecturer, Indianapolis, Indiana
1998 Apsler Lecturer, Clark College
1999 Heeley Lecturer, The Lawrenceville School
1999 Centre for Medicine Research (CMR) International Annual Lecturer, Royal College of Physicians, London
1999 MPS Distinguished Lecturer, National Science Foundation
1999 Michael Kriegler Memorial Lecturer, University of California, San Diego
1999 John C. Krantz, Jr. Distinguished Lecturer, The University of the Sciences in Philadelphia
1999 Wilkins Visiting Professor, Boston University Medical Center
1999 Willit F. Whitmore Jr. Lecturer, American Urological Association, Dallas, Texas
1999 Ørsted Lecturer, Technical University of Denmark
1998 Storer Life Sciences Lecturer, University of California Davis
2000 Paul D. Lamson Memorial Lecturer, Vanderbilt University
2000 John & Betty Moore Lecturer on "Science as a Way of Knowing," University of California, Riverside
2000 Stevenson Memorial Lecturer, The University of Western Ontario
2000 John C. Krantz, Jr. Distinguished Lecturer, The University of the Sciences in Philadelphia
2000 G.F. Smith Lecturer, University of Illinois, Urbana
2000 Simon Stevin Lecturer, the Delft University of Technology, The Netherlands
2001 Alfred Deakin Lecturer, Melbourne, Australia
2001 Commencement Speaker, The Pennsylvania State University, "The Challenge of Change"
2002 6th Andrew H. Weinberg Lecturer, Dana-Farber Cancer Institute, Boston, Massachusetts
2002 David Perlman Lecturer for Leadership in the Emerging Field of Systems Biology, for the Division of Biochemical Technology (BIOT) at the American Chemical Society (ACS) National Meeting

2003 Waddell Memorial Lecturer, Arizona Cancer Center, Tucson, AZ
2003 Andrew C. von Eschenbach Lecture, The University of Texas MD Anderson Cancer Center, Houston, TX
2003 Hunter Lecture in Bioengineering, Clemson University, Clemson, SC
2003 E. Llewellyn-Thomas Scientific Lecturer, Institute of Biomaterials & Biomedical Engineering, University of Toronto, Ontario
2003 American Thoracic Society (ATS) President's Lecture, Seattle, WA
2003 Provost's Lecture, Purdue University Sigma Xi, West Lafayette, IN
2003 Jack Peter Green Lecturer, Mt. Sinai Medical Center, New York, NY
2003 Si Ramo Lecturer, Keck Graduate Institute of Applied Life Sciences, Claremont, CA
2003 Janice Antoine Lumpkin Memorial Lecturer, University of Maryland Baltimore County, Baltimore, MD
2004 17th Schrodinger Lecturer, Imperial College of Science, Technology and Medicine, London
2004 Florence S. Mahoney Lecture on Aging, National Institutes of Health, Bethesda, MD
2005 American Association for C ancer Research Distinguished Lecturer, Anaheim, CA
2005 Medeval Distinguished Lecturer in Pharmaceutical Sciences, University of Manchester, Manchester, UK
2005 Parker H. Petit Distinguished Lecturer, Parker H. Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, Atlanta, GA
2005 5th Annual William Wallace Scott Research Lecturer, Johns Hopkins University, Baltimore, MD
2005 Efraim Racker Lecturer in Biology and Medicine, Cornell University, Ithaca, NY
2006 Barnett Lecturer, Barnett Institute, Northeastern University, Boston, MA
2006 Roy E. Moon Distinguished Lectureship in Science, Angelo State University, San Angelo, TX
2006 Chalmers J. Lyons Memorial Lecturer, American Association of Oral and Maxillofacial Surgeons Annual Meeting, San Diego, CA
2006 Stier Memorial Lecturer, Washington State University, Spokane, WA
2007 Pioneer Seminar for the Institute of Genomic Biology, University of Illinois, Champaign-Urbana, IL
2007 Raymond and Beverly Sackler Visiting Lectureship, University of Toronto, Toronto, Ontario
2008 William D. Stubenbord Visiting Professorship, Weill Cornell Medical College,New York, NY
2009 Axelrod Lectureship, Purdue University
2009 The Scripps Research Institute Kellogg School of Science and Technology Graduate Program in Chemical and Biological Sciences Distinguished Lecture Series
2009 Nath Lectureship, West Virginia University
2010 University of Utah Benning Lecture Series
2010 Montana State University Kopriva Lecture Series
2010 Johnson & Johnson Ortho Clinical Diagnostics Lecture Series
2011 Stenchever Lecture honoring Morton A. Stenchever, MD, University of Washington
2011 Genome BC Don Rix Distinguished Lecture Series
2011 Toronto University Perimeter Institute Public Lecture Series
2011 Iowa State University Department of Electrical/Computer Engineering ECpE Distinguished Lecture Series
2012 Russ College Distinguished Lecture Series
2012 Purdue University Prestige Lecture Series
2012 Qatar Foundation Distinguished Lecture Series
2012 Johns Hopkins University Thomas Hunt Morgan Lectureship
2012 Master Lectureship Shanghai Jiao Tong University (SJTU)
2012 Paul H. Lange, FACS Endowed Lectureship
2013 New Frontiers in Science Distinguished Lecture Series, FDA
2013 Archibald Byron Macallum Lecturer, University of Toronto
2013 First Annual Jeffrey Michel Annual Innovations in Systems Biology Lecture Series, Rice University
2013 18th Annual Aline U. and James M. Orten Memorial Lecture
2013 First annual Gilbert S. Omenn Lectureship, Department of Computational Medicine and Bioinformatics,University of Michigan

2014 The William Harvey Medal For Transforming Medicine, The William Harvey Research Institute, London
2015 Annenberg Leadership& Management Speaker Series- Harvey Mudd College
2015 Dr. Martin Rodbell Lecture- National Institute of Environmental Health Sciences
2015 IBM Distinguished Lectureship, NYC
2015 The Annual Heinz C. Prechter Lectureship - University of Michigan
2016 Bernard Amos Lecture – Duke University
2017 17th Annual Daniel Nathans Lecture in Molecular Biology and Genetics - Johns Hopkins
2017 John A. Lynch Distingushed Lecture - Notre Dame
2017 Grand Rounds - Washington State University
2017 Spiegelman Lecture – University of Illinois
2017 Presidents' Lecture – Academy of Nutrition and Dietetics Food & Nutrition Conference & Expo Chicago, Illinois

Editorial Advisory Duties:

1970-1975 Advisory Editor, *Immunochemistry*
1975-1981 Editorial Advisory Board, *Biochemistry*
1975-1980 Advisory Board, *Biochemical Genetics*
1975-1980 Editorial Board, *Biological Regulation and Control: A Comprehensive Treatise*(Plenum)
1980-1975 Associate Editor, *Journal of Immunology*
1981-1985 Associate Editor, *Cell*
1981-1999 Editorial Board, *Journal of Molecular Evolution*
1986-1996 Editorial Board, *Proteins: Structure, Function and Genetics*
1987-1989 Advisory Board, *Clinical Immunology and Immunopathology*
1988-2003 Editorial Board, *Genomics*
1988-1999 Editorial Board, *BioTechniques*
1990-1995 Editorial Board, *Genetic Analysis and Applications*
1990-Present Editorial Board, *Current Opinion in Biotechnology*
1991-1999 Editorial Board, *Molecular Phylogenetics and Evolution*
1991-Present Advisory Editor, *Human Mutation*
1993-1999 Editorial Board, *Proteins*
1994-Present Editorial Board, *Journal of Computational Biology*
1994-Present Editorial Board, *Molecular Medicine*
1995-1999 Editorial Committee, *Methods in Molecular and Cellular Biology*
1995-2001 Editorial Board, *Molecular Biotechnology*
1995-Present Associate Editor, *Genome Science and Technology*
2000-Present Advisor, *Encyclopedia of the Human Genome*
1998-Present Editorial Board, *Annual Reviews of Human Genetics and Genomics*
1999-Present Editorial Associate Board, *GeneScreen*
1999-Present Advisory Board, *Genome Biology*
1999-Present Editorial Board, *Functional and Integrative Genomics*
2000-Present Advisory Board, Data-Rich Genomics Series, Oxford University Press
2000-Present Advisor, SoundVisions Productions
2006-Present External Advisory Board, *Encyclopedia of Complexity and Systems Science (ECSS)*
2014-Present Editorial Board, Nature Publishing Journal, Systems Biology and Applications

Current Committee/Board Duties:

AbCellera, Scientific Advisory Board
AbVitro, Scientific Advisory Board
Accelerator Corporation, Board of Directors
Algomedix , Board of Directors
Allozyne, Board of Directors
BioCity Turku, Scientific Advisory Board

Cellular Dynamics, Scientific Advisory Board
Center for Advancement of Science in Space (CASIS) Board of Directors
Center for Systems Biology and Medicine of Aging-Peking, Science Advisory Board
Complete Genomics, Scientific Advisory Board
Cytoscape, Board of Directors
Data4Cure
Diabetomics, Scientific Advisory Board
Genomatica, Scientific Advisory Board
Gladstone, Scientific Advisory Board
Integrated Diagnostics, Board of Directors
Intelligent Medical Devices, Board of Directors
InterWest Partners, Advisory Committee & Life Sciences
La Jolla Institute for Allergy and Immunology, Board of Directors
McLaughlin Research Institute, Scientific Advisory Committee
Microsoft Research-University of Trento, Scientific Advisory Board
myMERCURYrisk, Scientific Advisory Board
NABsys, Inc., Board of Directors NextBio, Scientific Advisory Board
NextBio, Scientific Advisory Board
Omeros, Board of Directors
Omicia, Board of Directors
P4Medical Institute, Board of Directors
Plexera (formerly Lumera), Scientific Advisory Board
PrimeraDX, Scientific Advisory Board
Prognosys Biosciences, Scientific Advisory Board
Roberts & Company, Board of Directors
Seattle Science Foundation, Board of Directors
Sapphire Energy, Inc., Scientific Advisory Board
SciLifeLab, Stockholm, Scientific Advisory Board
Sophia Genetics, Scientific Advisory Board
tranSMART Foundation, Board of Directors
TRACK-TBI, Scientific Advisory Board
Washington Global Health Alliance, Executive Committee
WIN, Co-Chair, Scientific Advisory Board

BIBLIOGRAPHY

A. Issued Patents

1. Hood LE and Hunkapiller MW. (1981) *Apparatus for the Performance of Chemical Processes*. U.S. Patent No. 4,252,769.
2. Hood LE, Hunkapiller MW, Dreyer WJ, Hewick RM, Stark AW. (1986) *Method for the Sequential Performance of Chemical Processes*. U.S. Patent No. 4,603,114.
3. Hood LE, Hunkapiller MW, Dreyer WJ, Hewick RM, Stark AW. (1986) *Conversion Flask for Sequential Performance Apparatus.* U.S. Patent No. 4,610,847.
4. Hood LE, Hunkapiller MW, Dreyer WJ, Hewick RM, Stark AW. (1987) *Apparatus for the Sequential Performance of Chemical Processes*. U.S. Patent No. 4,704,256.
5. McGrath MS, Weissman IL, Hood L. (1988) *Diagnostic and Therapeutic Aspects of Receptor-Mediated Leukemogenesis.* U.S. Patent No. 4,786,590.
6. Hood LE, Weissman IL, McGrath MS. (1989) *Diagnostic Reagents Based on Unique Sequences Within the Variable Region of the T Cell Receptor and Uses Thereof.* U.S. Patent No. 4,886,743.
7. Landegren U and Hood L. (1991) *Method of Detecting a Nucleotide Change in Nucleic Acids.* U.S. Patent No. 4,988,617.
8. Smith, LM, Hood LE, Hunkapiller MW, Hunkapiller TJ. (1992) *Automated DNA Sequencing Technique.* U.S. Patent No. 5,171,534.

9. Barany FJ, Nickerson Zd, Kaiser RJ Jr, Hood LE. (1996) *Thermostable ligase- mediated DNA amplifications system for the detection of genetic disease*. U.S. Patent No. 5,494,810.
10. Smith LM, Hood LE, Hunkapiller MW, Hunkapiller TJ. (1998) *Automated DNA Sequencing Technique.* U.S. Patent No. 5,821,058.
11. Barany FJ, Nickerson Zd, Kaiser RJ Jr, Hood LE. (1998) *Thermostable ligase- mediated DNA amplification system for the detection of genetic disease.* U.S. Patent No. 5,830,711.
12. Barany FJ, Nickerson Zd, Kaiser RJ Jr, Hood LE. (2000) *Thermostable ligase- mediated DNA amplification system for the detection of genetic disease*. U.S. Patent No. 6,054,564.
13. Li L and Hood L. (2000) *Human Jagged Polypeptide, Encoding Nucleic Acids and Methods of Use*. U.S. Patent No. 6,136,952.
14. Chaudhary PE and Hood LE. (2000) *Proteins capable of regulating NF-.kappa.B JNK and apoptosis pathways and methods of using the same.* U.S. Patent No. 6,160,095.
15. Smith LM, Hood LE, Hunkapiller MW, Hunkapiller TJ, Connell CR. (2001) *Tagged Extendable Primers and Extension Products*. U.S. Patent No. 6,200,748.
16. Chaudhary PE and Hood LE. (2001) *Proteins capable of regulating NF-.kappa.B JNK and apoptosis pathways and methods of using the same*. U.S. Patent No. 6,207,458.
17. Prusiner SB, Tremblay P, Moore R, Westaway D, Hood LE, Lee I. (2001) *PrP-Like Gene.* U.S. Patent No. 6,277,970.
18. Loeb LA, Hood L, Suzuki M. (2002) *Thermostable Polymerases Having Altered Fidelity and Method of Identifying and Using Same*. U.S. Patent No. 6,395,524.
19. Loeb LA, Hood L, Suzuki M. (2002) *Thermostable Polymerases Having Altered Fidelity and Method of Identifying and Using Same*. U.S. Patent No. 6,982,144.
20. Petersdorf EW, Guo Z, Hood L. (2007) *Methods for haplotyping genomic DNA.* U.S. Patent No. 7,300,755.
21. Loeb LA, Hood L, Suzuki M. (2007) *Thermostable Polymerases Having Altered Fidelity and Method of Identifying and Using Same.* U.S. Patent No. 7,312,059.
22. Hood LE and Siegel AF. (2008) *Methods of classifying drug responsiveness using multiparameter analysis.* U.S. Patent No. 7,343,247.
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F. Papers In Press or Submitted

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2. Yoo H, Lee I, Hwang D, Baxter D, Movius J, Pittstick R, Carlson GA, Hood LE. (2013) **Employing systems-selected blood biomarkers to follow the progression of prion-induced neurodegeneration in mice.** (submitted)
3. Kim T-K, Lee I, Cho J-H, Keller A, Price N, Hwang D, Carlson G, Hood L. (2013) **Dynamic transcriptional regulatory networks in prion disease.** (submitted)
4. Najim Ameziane, Patrick May, Anneke Haitjema, Henri van de Vrugt, Sari Van Rossum - Fikkert, Dejan Ristic,

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5. Michael Sagner, MD; Amy McNeil, BA; Charles Auffray, PhD; Nathan D. Price, PhD; Leroy Hood, MD, PhD, Carl J Lavie, MD, Ze-Guang Han, MD, Zhu Chen, MD, PhD, Samir Kumar Brahmachari, PhD, Bruce S. McEwen, PhD, Marcelo Soares, PhD, Ross Arena, PhD, PT. **The P4 Health Continuum – A Novel Framework to Prevent and Treat Chronic Diseases.** Progress in Cardiovascular Diseases (2016) – *Submitted*
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7. Kearney, P., Boniface, J., Price, N.D., and Hood, L. **The building blocks of successful translation of proteomics to the clinic.** Current Opinion in Biotechnology, In press (2017)