

DR. LEROY E. HOOD
Curriculum Vitae

Business Address: Institute for Systems Biology
401 Terry Avenue North
Seattle, Washington 98109
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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	Co-founder and Chief Strategic Officer, 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 MetroLIST 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 Genitourinary 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 Scotland
- 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
2017	National Academy of Sciences Award for Chemistry in Service to Society

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 Marris 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 Krieglger 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 Cancer Research Distinguished Lecturer, Anaheim, CA
 2005 Medieval 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 Distinguished 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
- 2018 Willam Potter Lecture – Thomas Jefferson University, Philadelphia, PA

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, <i>Functional and Integrative Genomics</i>
2000-Present	Advisory Board, Data-Rich Genomics Series, Oxford University Press
2000-Present	Advisor, SoundVisions Productions
2006-Present	External Advisory Board, <i>Encyclopedia of Complexity and Systems Science (ECSS)</i>
2014-Present	Editorial Board, <i>Nature Publishing Journal, Systems Biology and Applications</i>

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- κ 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- κ 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.
 23. Hood LE and Siegel AF. **(2009)** *Multiparameter analysis for predictive medicine*. U.S. Patent No. 7,567,870.
 24. Petersdorf EW, Guo Z, Hood L. **(2009)** *Methods for haplotyping genomic DNA*. U.S. Patent No. 7,615,350.
 25. Hood LE, Siegel AF, Ideker TE. **(2009)** *Gene Discovery for the system assignment of gene function*. U.S. Patent No. 7,623,969.
 26. Hood LE, Ishikawa MY, Jung EKY, Langer R, Tegreene CT, Wood Jr LL, Wood VYH. **(2010)** *Method and system for control of osmotic pump device*. U.S. Patent No. 7,699,834.
 27. Hood LE, Ishikawa MY, Jung EKY, Langer R, Tegreene CT, Wood Jr LL, Wood VYH **(2010)** *Remote controller for in situ reaction device*. U.S. Patent No. 7,817,030.
 28. Hood LE, Ishikawa MY, Jung EKY, Langer R, Tegreene CT, Wood Jr LL, Wood VYH. **(2011)** *Remotely controlled substance delivery device*, U.S. Patent No. 7,942,867.
 29. Goodall EV, Hood LE, Ishikawa MY, Jung EKY, Langer R, Tegreene CT, Wood Jr LL, Wood VYH. **(2011)** *Remote controlled in vivo reaction method*. U.S. Patent No. 7,819,858.
 30. Hood LE and Lin B. **(2011)** *Methods for identifying and monitoring drug side effects*. U.S. Patent

No. 7,883,858.

31. Hood LE, Ishikawa MY, Jung EKY, Langer R, Tegreene CT, Wood Jr LL, Wood VYH. **(2011)** *Method and system for control of osmotic pump device*. U.S. Patent No. 7,896,868.
32. Petersdorf EW, Guo Z, Hood L. **(2011)** *Methods for haplotyping genomic DNA*. U.S. Patent 7,972,791 B2.
33. Hood LE, Ishikawa MY, Jung EKY, Langer R; Tegreene CT, Wood Jr LL, Wood VYH. **(2011)** *Acoustically controlled substance delivery device*. U.S. Patent No. 8,083,710.
34. Hood LE, Ishikawa MY, Jung EKY, Langer R; Tegreene CT, Wood Jr LL, Wood VYH. **(2012)** *Remote Control of substance delivery system*. U.S. Patent No. 8,114,065.
35. Hood LE, Ishikawa MY, Jung EKY, Langer R; Tegreene CT, Wood Jr LL, Wood VYH. **(2012)** *Osmotic pump with remotely controlled osmotic pressure generation*. U.S. Patent No. 8,109,923.
36. He S, Yon T, Tian Q, Weiguo T, Hood L, Lin L. **(2012)** *Antibody That Binds Specifically to Phosphorylated Beta-Catenin*. U.S. Patent No. 8,106,166.
37. Hood LE, Ishikawa MY, Jung EKY, Langer R; Tegreene CT, Wood Jr LL, Wood VYH. **(2014)** *Substance Delivery System* U.S. Patent No. 8,882,747.

B. Books and Book Chapters

1. Sanders BG, Hood L. **(1971)** Antigenic Properties and Electrophoretic Heterogeneity of Polypeptide Chains from IgG Immunoglobulins. *Studies in Genetics VI*, 29-47. Ed. M. R. Wheeler. University of Texas Publications, Austin, Texas.
2. Wood WB, Wilson J, Benbow R, Hood L. **(1974)** 1st Edition, (1981) 2nd Edition. *Biochemistry: A Problems Approach*. Benjamin, Inc., Menlo Park, CA.
3. Hood L, Wilson J, Wood WB. **(1975)** *Molecular Biology of Eucaryotic Cells*. W. A. Benjamin, Inc., Menlo Park, CA.
4. Silver J, Hood L. **(1976)** Genetic and Evolutionary Implications of the Partial Amino Acid Sequences of H-2K and H-2D Alloantigens. *The Role of Products of the Histocompatibility Gene Complex in Immune Responses*. 677-689. Academic Press, Inc.
5. Cecka M, McMillan M, Murphy D, Silver J, McDevitt H, Hood L. **(1978)** Partial Amino Acid Sequence Analyses of Ia Molecules. *Ia Genes and Ia Antigens*, 275-286. Academic Press, Inc.
6. Hood L, Weissman I, Wood WB. **(1978)** *Immunology*. W. A. Benjamin, Inc., Menlo Park, CA.
7. Weissman I, Hood L, Wood WB. **(1978)** *Essential Concepts in Immunology*. W. A. Benjamin, Inc., Menlo Park, CA.
8. Davis M, Early P, Calame K, Livant D, Hood L. **(1979)** The Organization and Rearrangement of Heavy Chain Immunoglobulin Genes in Mice. *Eucaryotic Gene Regulation*, 393-406. Academic Press, Inc.
9. Strader CD, Hunkapiller MW, Hood LE, Raftery MA. **(1980)** Determination of the Subunit Stoichiometry of the Acetylcholine Receptor from *Torpedo californica* by Amino Terminal Sequence Analysis. *Psychopharmacology and Biochemistry of Neurotransmitter Receptors*, 35-46.
10. Hood L, Griffin J, Crews S, Huang H, Kronenberg M, Kim S. **(1981)** Antibody and MHC Genes. *Immunoglobulin Idiotypes*, 805-824. Academic Press, Inc.
11. Kronenberg ME, Kraig S, Horvath J, Hood LE. **(1982)** Cloned T Cells as a Tool for Molecular Geneticists: Approaches to Cloning Genes which Encode T Cell Antigen Receptors. *Isolation, Characterization, and Utilization of T Lymphocyte Clones*, 467-491. Academic Press, Inc.
12. Huang H, Hood L. **(1983)** Origins of Antibody Diversity. *Recombinant DNA and Medical Genetics*, 97-104.
13. Hood LE, Weissman IL, Wood WB, Wilson JH. **(1984)** *Immunology*. 2nd Edition. Benjamin/Cummings, Menlo Park, CA.
14. Kent SBH, Hood LE, Beilan H, Meister S, Geiser T. **(1985)** High Yield Chemical Synthesis of Biologically Active Peptides on an Automated Peptide Synthesizer of Novel Design. *Peptides 1984*, 185-188.
15. Zuniga MC, Hood L. **(1985)** Membrane Expression and Function of MHC Class I Antigens with Truncated or Altered Cytoplasmic Tails. *Cell Biology of the Major Histocompatibility Complex*, 73-79.

16. Clark-Lewis I, Aebersold R, Ziltener H, Schrader JW, Hood LE, Kent SBH. (1986) Structure-Function Studies of Interleukin-3 Using an Automated Peptide Synthesis Approach. *Immune Regulation by Characterized Polypeptides*, 323-334.
17. Aebersold R, Leavitt J, Hood L, Kent S. (1987) Sequence Analysis of Proteins from Whole-Cell Lysates after Separation in Analytical Two-Dimensional Gels. *Methods in Protein Sequence Analysis 1986*, 277-294. Ed. Kenneth A. Walsh. Humana Press, Inc., Clifton, New Jersey.
18. Hood L, Smith L. (1987) Genome Sequencing: How to Proceed. *Issues in Science and Technology*, Vol. III, Number 3, 36-46.
19. Aebersold R, Teplow DB, Hood LE, Kent SBH. (1987) A Novel Approach to Isolation of Proteins for Microsequence Analysis: Electroblothing onto Activated Glass. *Proteins*, 105-119. Ed. James J. L'Italien. Plenum Publishing Corporation.
20. Clark-Lewis I, Lopez AF, Vadas M, Schrader JW, Hood L, Kent SBH. (1987) Structure-Function Studies of Lymphokines by Total Chemical Synthesis. *Molecular Basis for Lymphokine Action*, 339-351.
21. Landegren U, Siu G, Hood L. (1987) Development of T Lymphocytes. *Molecular Approaches to Developmental Biology*, 439-452. Alan R. Liss, Inc.
22. Korber B, Hood L, Stroynowski I. (1987) Regulatory Elements in the Promoter of the H-2Dd Class I Gene. *H-2 Antigens*, 201-208. Ed. Chella S. David. Plenum Publishing Corporation.
23. Puckett C, Popko B, Readhead C, Shine HD, Hood L. (1988) Expression of a Myelin Basic Protein Gene in Transgenic Shiverer and Myelin-Deficient Mice. *Discussions in Neurosciences*, "Molecular Genetic Mechanisms in Neurological Disorders," 134-140.
24. Popko B, Readhead C, Dausman J, Hood L. (1988) The Production of Transgenic Mice and Some Potential Applications of the Technique to Questions of Neurobiological Interest. *Neuromethods*, 221-. Eds. A. A. Boulton, G. B. Baker, and A. Campagnoni. Humana Press, New Jersey.
25. Wilson RK, Kono DH, Zaller DM, Hood L. (1989) Rapid Analysis of T-Cell Receptor Gene Structure and Expression. *Current Communications in Molecular Biology, Polymerase Chain Reaction*, 217-223.
26. Urban JL, Kumar V, Kono DH, Gomez C, Hood L. (1989) T-Cell Receptors in Experimental Allergic Encephalomyelitis. *Neuroimmune Networks: Physiology and Diseases*, 25-30. Alan R. Liss, Inc.
27. Readhead C, Popko B, Takahashi N, Shine HD, Saavedra R, Sidman RL, Hood L. (1989) Transgenic Shiverer Mutant Mice: Expression of a Myelin Basic Protein Gene. *Gene Transfer and Gene Therapy*, 235-242. Alan R. Liss, Inc.
28. Sanders JZ, MacKellar SL, Otto BJ, Dodd CT, Heiner C, Hood LE, Smith LM. (1990) Peak Height Variability and Accuracy in Automated DNA Sequencing. *Structure & Methods, Volume I: Human Genome Initiative & DNA Recombination*, 89-102. Eds. Ramaswamy, H. Sarma & Mukti H. Sarma. Adenine Press.
29. Shine HD, Readhead C, Popko B, Hood L, Sidman RL. (1990) Myelin Basic Protein and Myelinogenesis: Morphometric Analysis of Normal, Mutant and Transgenic Central Nervous System. *Dynamic Interactions of Myelin Proteins*, 81-92. Alan R. Liss, Inc.
30. Hood L, Hunkapiller T. (1991) Molecular Evolution and the Immunoglobulin Gene Superfamily. *Evolution of Life: Fossils, Molecules, and Culture*, 123-143. Eds. S. Osawa and T. Honjo. Springer-Verlag Tokyo.
31. Griffin PR, Furer-Jonscher K, Hood L, Yates JR, III, Schwartz J, Jardine I. (1992) Analysis of Proteins by Mass Spectrometry. *Techniques in Protein Chemistry III*, 467-476. Ed. Ruth H. Angeletti. Academic Press, Inc.
32. Hood L. (1992) Biology and Medicine in the Twenty-First Century. *The Code of Codes, Scientific and Social Issues in the Human Genome Project*, 136-163. Eds. Kevles, D.J. and L. Hood. Harvard University Press, Cambridge, MA.
33. Stolowitz M, Hood L. (1993) Single Syringe-Pump Solid-Phase Protein Sequencer. *Techniques in Protein Chemistry IV*, 435-441. Ed. R.H. Angeletti. Academic Press, Inc.
34. Stolowitz ML, Kim CS, Marsh SR, Hood L. (1993) Thiobenzoylation Method of protein Sequencing: Gas Chromatography/Mass Spectrometric Detection of 5-Acetoxy-2-

- Phenylthiazoles. *Methods In Protein Sequence Analysis*, 37-44. Eds. K. Imahori and F. Sakiyama. Plenum Press, New York.
35. Hood L, McIndoe RA. **(1997)** DNA Diagnostics: Paradigm Changes and Systems Analysis. The Medical Challenge. *Complex Traits*, 11-54. Eds. E. Peter Fischer and G. Möller. Piper Verlag GmbH, München.
 36. Hood L, Rowen L. **(1997)** Genes, Genomes, and Society. *Genetic Secrets: Protecting Privacy and Confidentiality in the Genetic Era*, 3-30. Ed. Mark A. Rothstein. Yale University Press, New Haven.
 37. Rowen L, Lasky S, Hood L. **(1998)** Deciphering Genomes Through Automated Large-Scale Sequencing. *Methods in Microbiology*, Volume 28, Chapter 7, 155-191. Foreword by L. Hood. Eds. Alister G. Craig and Jörg D. Hoheisel. Academic Press Ltd.
 38. Hood L. **(1999)** Preface for: *Encyclopedia of Bioprocess Technology: Fermentation, Biocatalysis, and Bioseparation*. Volume 1. Eds. Michael C. Flickinger and Stephen W. Drew. Preface for: *Encyclopedia of Molecular Biology*. Volume 1. Ed. Thomas E. Creighton.
 39. Hartwell L, Hood L, Goldberg R, Reynolds A, Silver L, Veres R. **(1999)** Genetics: From Genes to Genomes. *Evolution at the Molecular Level*. Chapter 24, 783-813. 1st Edition. McGraw- Hill.
 40. Hood L. **(2000)** The Human Genome Project—Launch Pad for Human Genetic Engineering. *Engineering the Human Germline*, 17-24. Eds. G. Stock and J. Campbell. 1st Edition. Oxford University Press, New York.
 41. Nickoloff B. **(2000)** *Methods in Molecular Medicine. Melanoma Techniques and Protocols: Molecular Diagnosis, Treatment, and Monitoring*. Foreword by L. Hood. Ed. B.J. Nickoloff. Humana Press Inc., Totowa, NJ.
 42. Hood L. **(2001)** The Alfred Deakin Lectures: Ideas for the Future of a Civil Society. *Deciphering Heredity*, 164-176. ABC Books, Australian Broadcasting Corporation, Sydney.
 43. Futter E, Wade N, Varmus H, Green E, Venter C, Hood L, Bazell R, Haseltine W, Levine A, Kreek MJ, Schnaal B, Wallace D, Kevles D, Rothman D, Rothman S, Waldholz M, Jenner K, Eisenberg R, Duster T, Caplan A, Hanna K. **(2002)** The Genomic Revolution: Unveiling the Unity of Life. *After the Genome: Where Should We Go?* 64-73. Eds. M. Yudell and R. DeSalle. Joseph Henry Press, Washington, D.C. with the American Museum of Natural History.
 44. Foltz G, Madan A, Hood L. **(2002)** Cancer Proteomics: Methodologies for the Selection of Immunotherapy Targets. *Principles and Practice of Biologic Therapy of Cancer Updates*, Third Edition. Ed. S.A. Rosenber. Lippincott Williams & Wilkins, A Wolters Kluwer Company, New York.
 45. Hartwell LH, Hood L, Goldberg ML, Reynolds AE, Silver LM, Veres RC **(2003)** Genetics: From Genes to Genomes. 2nd Edition. McGraw Hill, New York.
 46. Moises H, Zoega T, Li L, Hood L. **(2004)** Genes and Neurodevelopment in Schizophrenia. *Behavior Genetics Principles: Perspectives in Development, Personality, and Psychopathology*. Ed. Lisabeth Fisher DiLalla. American Psychological Association Press, Washington, D.C. Chapter 10, 145-157.
 47. Hood L. **(2004)** Preface. *Biotechnology Annual Review*. Ed. M.R. El-Gewely. Elsevier, Amsterdam.
 48. Hood, L. **(2004)** Foreword. *Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins*, 3rd Edition. Eds. Andreas D. Baxevanis and B.F. Francis Oullette. Wiley- Liss, Inc.
 49. Hood L, **(2008)** A Systems Approach to Medicine Will Transform Healthcare”, *In Physical Biology: From Atoms to Medicine* Ahmed H. Zewail (ed.) p. 337, Imperial College Press, London.
 50. Price, N.D., Edelman, L.B., Lee, I., Yoo, H., Hwang, D., Carlson, G., Galas, D.J., Heath, J.R., and Hood, L., (2009) Systems biology and systems medicine, *Genomic and Personalized Medicine: From Principles to Practice* (Ginsburg, G. and Willard, H., editors). Vol.1, pp. 131-141, Elsevier.
 51. Hartwell L, Hood L, Goldberg R, Reynolds A, Silver L. **(2010)** Genetics: From Genes to Genomes. *Systems Biology and the Future of Medicine*. Chapter 21, 716-730. 4th Edition. McGraw-Hill.
 52. Hood L, Foltz G **(2010)** Systems Biology. *Molecular Imaging Principles and Practice*. 628-641.

People's Medical Publishing House-USA.

53. Auffray C, Ideker T, Galas DJ, Hood L. **(2011)** Cancer Systems Biology, Bioinformatics and Medicine: Research and Clinical Applications. 245-266. Springer Dordrecht Heidelberg London New York.
54. Panchalingam K, Paramchuk W, Hothi P, Shah B, Hood L, Foltz G, Behie LA. **(2011)** Large-Scale Production of Human Glioblastoma-Derived Cancer Stem Cell Tissue in Suspension Bioreactors to Facilitate the Development of Novel Oncolytic Therapeutics. *Cancer Stem Cells*. Chapter 25, 475-502.
55. Hood L, Flores MA, Brogaard KR, Price ND. **(2012)** Systems Medicine and the Emergence of Proactive P4 Medicine: Predictive, Preventative, Personalized, and Participatory. *Handbook of Systems Biology-Concepts and Insights*. Section V, Chapter 23, 445-467.
56. Price ND, Edelman LB, Lee I, Yoo H, Hwang D, Carlson G, Galas DJ, Heath JR, Hood L. **(2012)** Systems Biology and Systems Medicine. *Genomic and Personalized Medicine Second Edition*. Part I, Chapter 5. 60-72.
57. Panchalingam K, Paramchuk W, Hothi P, Shah N, Hood L, Foltz G, Behie LA. **(2011)** Large-Scale Production of Human Glioblastoma-Derived Cancer Stem Cell Tissue in Suspension Bioreactors to Facilitate the Development of Novel Oncolytic Therapeutics. *InTech Cancer Stem Cells. Cancer Stem Cells. The Cutting Edge Chp 25. 475-582*.
58. Hood, L., Brogaard, K., Price, N.D. A vision for 21st century healthcare. in: R.C. Bast Jr, W.K. Hong, D.W. Kufe, W.N. Hait, R.E. Pollock, R.R. Weichelsbaum, J.F. Holland (Eds.) *Cancer Medicine*. 9th ed. John Wiley & Co, London, UK; 2017

C. Proceedings

1. Hood L, Grant JA, Sox HC Jr. **(1970)** On the Structure of Normal Light Chains from Mammals and Birds: Evolutionary and Genetic Implications. *Developmental Aspects of Antibody Formation and Structure*, 283-309. Proceedings of a Symposium held in Prague and Slapy on June 1-7, 1969.
2. Steinmetz M, Frelinger JG, Fisher DA, Moore KW, Taylor Sher B, Hood L. **(1981)** Isolation and Characterization of cDNA Clones Encoding Mouse Transplantation Antigens. *Developmental Biology Using Purified Genes*, 173-188. ICN-UCLA Symposium on Molecular and Cellular Biology. Academic Press, Inc.
3. Woodward JG, Harmon RC, Orn A, Brayton PR, McLaughlin-Taylor E, Goodenow RS, Hood L, Frelinger JA. **(1982)** Biological Properties of Class I MHC Molecules Expressed After DNA-Mediated Gene Transfer. *B and T Cell Tumors: Biological and Clinical Aspects 24*. ICN-UCLA Symposia on Molecular and Cellular Biology. Eds. E. Vitetta and C. Fred Fox. Academic Press, New York.
4. Huang H, Hood L. (1983) The Evolutionary Origin of V Gene Formation. *Stadler Genetic Symposium Proceedings* 14:59-68.
5. Hood L, Kent S, Smith L, Aebersold R, Teplow D, Kaiser R, Clark-Lewis I, Woo D, Hines W, Sanders J. **(1987)** The Development of a Facility to Analyze and Synthesize Genes and Proteins. *Methods in Protein Sequence Analysis*, 21-41. Proceedings of the 6th International Conference, Seattle, WA, August 1986. Ed. Ken Walsh.
6. Aebersold RH, Nika H, Pipes GD, Wettenhall REH, Clark SM, Hood LE, Kent ABH. **(1989)** Accelerated High Sensitivity Sequence Analysis of Proteins and Peptides Immobilized on Chemically-Modified Glass Fiber Discs. *Methods in Protein Sequence Analysis*, 79-97. Proceedings of the 7th International Conference, Berlin, July 3-8, 1988. Ed. Brigitte Wittmann-Liebold. Springer-Verlag.
7. Hood LE, Aebersold R, Harrington M, Hunkapiller T, Kaiser R, Kent SB, Landegren U, Nika H. **(1989)** Protein Chemistry and the Biotechnology of the Future. *Methods in Protein Sequence Analysis*, 536-553. Proceedings of the 7th International Conference, Berlin, July 3-8, 1988. Ed. Brigitte Wittmann-Liebold. Springer-Verlag.
8. Harrington MG, Gudeman D, Yun M, Wu W, Albright R, Eberlein S, Solomon J, Hood L. **(1991)** The Tissue, Cellular and Body Fluid Origin of Some Disease-Associated Spinal Fluid Proteins. Proceedings of the International Meeting on Two-Dimensional Electrophoresis, London, July 16-

- 18, 1991, 322-325. Ed. Michael J. Dunn.
9. Johnston RF, Barker DL, Pickett SC, Puckett C, Solomon J, Hood L, Harrington MG. **(1991)** Double-Label Analysis of Phosphoproteins Using Storage Phosphor Imaging of 2D Gels. Proceedings of the International Meeting on Two-Dimensional Electrophoresis, London, July 16-18, 1991, 53-57. Ed. Michael J. Dunn.
 10. Zewert TE, Harrington MG, Gudeman D, Hood L. **(1991)** Polyethylene Glycol Methacrylate Polymers as Matrices for Electrophoresis in Organic Solvents. Proceedings of the International Meeting on Two-Dimensional Electrophoresis, London, July 16-18, 1991, Addendum.
 11. Nickerson D, Delahunty C, Hood L, Nickerson D. **(1991)** Automating the Analysis of Polymorphic Sequence Tagged Sites (pSTSs) Using an Oligonucleotide Ligation Assay. Proceedings of the 2nd International Conference on Human Identification, 17-25.
 12. Hood L, Hunkapiller T, Solomon J. **(1992)** Computational Problems and the Human Genome Project. Proceedings of the 5th SIAM Conference on Parallel Processing for Scientific Computing, 1991, Houston, Texas. Society for Industrial and Applied Mathematics, Philadelphia. Eds. Jack Dongarra et al.
 13. Hood LE, Goverman J. **(1992)** Immune Recognition and Autoimmune Disease. Immunology in the 21st Century. Proceedings of the 75th Anniversary Symposium of The Irving Institute for Medical Research, 71-77. Ed. Frederick W. Alt.

D. Peer Reviewed Papers

1. Bennett JC, Hood L, Dreyer WJ. **(1965) Evidence for Amino Acid Sequence Differences Among Proteins Resembling the L-Chain Subunits of Immunoglobulins.** *Journal of Molecular Biology* 12:81-87.
2. Hood LE, Gray WR, Dreyer WJ. **(1966) On the Mechanism of Antibody Synthesis: A Species Comparison of L-Chains.** *Proceedings of the National Academy of Sciences USA* 55:826-832.
3. Hood L, Gray WR, Dreyer WJ. **(1966) On the Evolution of Antibody Light Chains.** *Journal of Molecular Biology* 22:179-182.
4. Gray WR, Dreyer WJ, Hood L. **(1967) Mechanism of Antibody Synthesis: Size Differences Between Mouse Kappa Chains.** *Science* 155:465-467.
5. Hood L, Gray WR, Sanders BG, Dreyer WJ. **(1967) Light Chain Evolution.** *Cold Spring Harbor Symposia on Quantitative Biology* 32:133-146.
6. Dreyer WJ, Gray WR, Hood LE. **(1967) The Genetic, Molecular, and Cellular Basis of Antibody Formation: Some Facts and a Unifying Hypothesis.** *Cold Spring Harbor Symposia on Quantitative Biology* 32:353-367.
7. Howell JW, Hood L, Sanders BG. **(1967) Comparative Analysis of the IgG Heavy Chain Carbohydrate Peptide.** *Journal of Molecular Biology* 30:555-558.
8. Hood L, Ein D. **(1968) Immunoglobulin Lambda Chain Structure: Two Genes-One Polypeptide Chain.** *Nature* 220:764-767.
9. Hood L, Ein D. **(1968) Genetic Implications of Common Region Sequence Comparisons of Lambda Immunoglobulin Chains Differing at Position 190.** *Science* 162:679-681.
10. Terry WD, Hood LE, Steinberg AG. **(1969) Genetics of Immunoglobulin Kappa Chains: Chemical Analysis of Normal Human Light Chains of Differing Inv Types.** *Proceedings of the National Academy of Sciences USA* 63:71-77.
11. Grant JA, Lamm ME, Hood L. **(1969) N-Terminal Sequence Heterogeneity of Guinea Pig Anti-DNA Kappa Chains.** *Immunochemistry* 6:645-648.
12. Hood L, Lackland H, Eichmann K, Kindt TJ, Braun DG, Krause RM. **(1969) Amino Acid Sequence Restriction in Rabbit Antibody Light Chains.** *Proceedings of the National Academy of Sciences USA* 63:890-896.
13. Eichmann K, Lackland K, Hood L, Krause RM. **(1970) Induction of Rabbit Antibody with Molecular Uniformity After Immunization with Group C Streptococci.** *Journal of Experimental Medicine* 131:207-221.
14. Harrington JT, Hood L, Terry WD. **(1970) C-Terminal Peptides from Human -Chains of Differing Subclass and Allotype.** *Immunochemistry* 7:393-399.
15. Sox HC, Hood L. **(1970) Attachment of Carbohydrate to the Variable Region of Myeloma**

- Immunoglobulin Light Chains.** *Proceedings of the National Academy of Sciences USA* 66:975-982.
16. Hood L, Potter M, McKean D. (1970) **Immunoglobulin Structure: Amino Terminal Sequences of Kappa Chains from Genetically Similar Mice (BALB/c).** *Science* 170:1207-1210.
 17. Hood L, Eichmann K, Lackland H, Krause R, Ohms JJ. (1970) **Rabbit Antibody Light Chains and Gene Evolution.** *Nature* 228:1040-1044.
 18. Grant JA, Hood L. (1971) **N-Terminal Analysis of Normal Immunoglobulin Light Chains. I. A Study of Thirteen Individual Humans.** *Immunochemistry* 8:63-79.
 19. Kaplan AP, Hood LE, Terry WD, Metzger H. (1971) **Amino Terminal Sequences of Human Immunoglobulin Heavy Chains.** *Immunochemistry* 8:801-811.
 20. Grant JA, Sanders B, Hood L. (1971) **Partial Amino Acid Sequences of Chicken and Turkey Immunoglobulin Light Chains. Homology with Mammalian Chains.** *Biochemistry* 10:3123-3132.
 21. Waterfield MD, Prah J, Hood LE, Kindt TH, Krause RM. (1972) **Restricted Structural Heterogeneity in Antibodies: Might Different Heavy Chains Have a Common Light Chain?** *Nature New Biol* 240:215-217.
 22. Waterfield MD, Morris JE, Hood LE, Todd CW. (1973) **Rabbit Immunoglobulin Light Chains: Correlation of Variable Region Sequences with Allotypic Markers.** *Journal of Immunology* 110:227-232.
 23. Hood L, McKean D, Farnsworth V, Potter M. (1973) **Mouse Immunoglobulin Chains. A Survey of the Amino-Terminal Sequences of kappa chains.** *Biochemistry* 12:741-749.
 24. McKean D, Potter M, Hood L. (1973) **Mouse Immunoglobulin Chains. Partial Amino Acid Sequence of a Chain.** *Biochemistry* 12:749-759.
 25. McKean D, Potter M, Hood L. (1973) **Mouse Immunoglobulin Chains. Pattern of Sequence Variation Among Chains with Limited Sequence Differences.** *Biochemistry* 12:760-771.
 26. Wu FC, Elgin SCR, Hood LE. (1973) **Nonhistone Chromosomal Proteins of Rat Tissues. A Comparative Study by Gel Electrophoresis.** *Biochemistry* 12:2792-2797.
 27. Elgin SCR, Boyd JB, Hood LE, Wray W, Wu FC. (1973) **A Prologue to the Study of Nonhistone Chromosomal Proteins.** *Cold Spring Harbor Symposia on Quantitative Biology* 38:821-833.
 28. Elgin SCR, Hood L. (1973) **Chromosomal Proteins of Drosophila Embryos.** *Biochemistry* Nov 20:12:4984-4991.
 29. Stanton T, Sledge C, Capra JD, Woods R, Clem W, Hood L. (1974) **A Sequence Restriction in the Variable Region of Immunoglobulin Light Chains from Sharks, Birds and Mammals.** *Journal of Immunology* 112:633-640.
 30. Sledge CL, Clem W, Hood L. (1974) **Antibody Structure: Amino Terminal Sequences of Nurse Shark Light and Heavy Chains.** *Journal of Immunology* 112:941-948.
 31. Francis SH, Leslie RGQ, Hood L, Eisen HN. (1974) **Amino-Acid Sequence of the Variable Region of the Heavy (Alpha) Chain of a Mouse Myeloma Protein with Anti-Hapten Activity.** *Proceedings of the National Academy of Sciences USA* 71:1123-1127.
 32. Barstad P, Rudikoff S, Potter M, Cohn M, Konigsberg W, Hood L. (1974) **Immunoglobulin Structure: Amino Terminal Sequences of Mouse Myeloma Proteins that Bind Phosphorylcholine.** *Science* 183:962-964.
 33. Silver J, Hood L. (1974) **Automated Microsequence Analysis in the Presence of a Synthetic Carrier.** *Analytical Biochemistry* 60:285-292.
 34. Silver J, Hood L. (1974) **Detergent-Solubilised H-2 Alloantigen is Associated with a Small Molecular Weight Polypeptide.** *Nature* 249:764-765.
 35. Barstad P, Farnsworth V, Weigert M, Cohn M, Hood L. (1974) **Mouse Immunoglobulin Heavy Chains are Coded by Multiple Germ Line Variable Region Genes.** *Proceedings of the National Academy of Sciences USA* 71:4096-4100.
 36. Stumph WE, Elgin SCR, Hood L. (1974) **Antibodies to Proteins Dissolved in Sodium Dodecyl Sulfate.** *Journal of Immunology* 113:1752-1756.
 37. Wu FC, Elgin SCR, Hood LE. (1975) **The Nonhistone Chromosomal Proteins of Vertebrate Liver and Kidney: A Comparative Study by Gel Electrophoresis.** *Journal of Molecular Evolution* 5:87-101.

38. Silver J, Sibley C, Moran P, Hood L. (1975) **Isolation of Multiple Ir-Associated Cell-Surface Molecules from Mice.** *Transplantation Proceedings* 7:201-204.
39. Silver J, Hood L. (1975) **An Approach to Amino Acid Sequence Analysis of Transplantation Antigens.** *Nature* 256:63-64.
40. Gutman GA, Loh E, Hood L. (1975) **Structure and Regulation of Immunoglobulins: Kappa Allotypes in the Rat Have Multiple Amino-Acid Differences in the Constant Region.** *Proceedings of the National Academy of Sciences USA* 72:5046-5050.
41. Weiner S, Hood L. (1975) **Soluble Protein of the Organic Matrix of Mollusk Shells: A Potential Template for Shell Formation.** *Science* 190:987-989.
42. Fair DS, Sledge C, Krueger RG, Mann KG, Hood LE. (1975) **Studies on IgA and IgG Monoclonal Proteins Derived from a Single Patient. Evidence for Identical Light Chains and Variable Regions of the Heavy Chain.** *Biochemistry* 14:5561-5568.
43. Silver J, Hood L. (1975) **Automated Microsequence Analysis by Use of Radioactive Phenylisothiocyanate.** *Analytical Biochemistry* 67:392-396.
44. Sledge, C, Fair DS, Black B, Krueger RG, Hood L. (1976) **Antibody Differentiation: Apparent Sequence Identity Between Variable Regions Shared by IgA and IgG Immunoglobulins.** *Proceedings of the National Academy of Sciences USA* 73:923-927.
45. Silver J, Hood L. (1976) **Structure and Evolution of Transplantation Antigens: Partial Amino-Acid Sequences of H-2K and H-2D Alloantigens.** *Proceedings of the National Academy of Sciences USA* 73:599-603.
46. Hood JM, Loh EY, Hood L. (1976) **A Mathematical Approach to the Analysis of Diversity in Antibody Gene Families.** *Biochemical Genetics* 14:467-479.
47. Farnsworth V, Goodfliesh R, Rodkey S, Hood L. (1976) **Immunoglobulin Allotypes of Rabbit Kappa Chains: Polymorphism of a Control Mechanism Regulating Closely Linked Duplicated Genes?** *Proceedings of the National Academy of Sciences USA* 73:1293-1296.
48. Weiner S, Lowenstam HA, Hood L. (1976) **Characterization of 80-Million-Year-Old Mollusk Shell Proteins.** *Proceedings of the National Academy of Sciences USA* 73:2541-2545.
49. Hood L, Loh E, Hubert J, Barstad P, Eaton B, Early P, Fuhrman J, Johnson N, Kronenberg M, Schilling J. (1976) **The Structure and Genetics of Mouse Immunoglobulins: An Analysis of NZB Myeloma Proteins and Sets of BALB/c Myeloma Proteins Binding Particular Haptens.** *Cold Spring Harbor Symposia on Quantitative Biology* 41:817-836.
50. Silver J, Cecka JM, McMillan M, Hood L. (1976) **Chemical Characterization of Products of the H-2 Complex.** *Cold Spring Harbor Symposia on Quantitative Biology* 41:369-377.
51. Weiner S, Lowenstam HA, Hood L. (1977) **Discrete Molecular Weight Components of the Organic Matrices of Mollusk Shells.** *Journal of Exp. Mar. Biol. Ecol.* 30:45-51.
52. McMillan M, Cecka JM, Murphy DB, McDevitt HO, Hood L. (1977) **Structure of Murine Ia Antigens: Partial NH₂-Terminal Amino Acid Sequences of Products of the I-E or I-C Subregion.** *Proceedings of the National Academy of Sciences USA* 74:5135-5139.
53. Hunkapiller, MW, Goetze AM, Richards JH, Hood LE. (1977) **Structure-Function Correlates in Dinitrophenyl and Phosphorylcholine Binding Myeloma Proteins.** *Immunogenetics* 4:424.
54. Regier JC, Kafatos FC, Goodfliesh R, Hood L. (1978) **Silkmoth Chorion Proteins: Sequence Analysis of the Products of a Multigene Family.** *Proceedings of the National Academy of Sciences USA* 75:390-394.
55. Hunkapiller MW, Hood LE. (1978) **Direct Microsequence Analysis of Polypeptides Using an Improved Sequenator, a Nonprotein Carrier (Polybrene), and High Pressure Liquid Chromatography.** *Biochemistry* 17:2124-2133.
56. Blankenhorn EP, Cecka JM, Goetze D, Hood L. (1978) **Partial N-Terminal Amino Acid Sequence of Rat Transplantation Antigens.** *Nature* 274:90-92.
57. Frelinger JG, Wettstein PJ, Frelinger JA, Hood L. (1978) **Epidermal Ia Molecules from the I-A and I-EC Subregions of the Mouse H-2 Complex.** *Immunogenetics* 6:125-135.
58. McMillan, M, Cecka JM, Murphy DB, McDevitt HO, Hood L. (1978) **Partial Amino Acid Sequences of Murine Ia Antigens of the I-ECd Subregion.** *Immunogenetics* 6:137-147.
59. Maizels RM, Frelinger JA, Hood L. (1978) **Partial Amino Acid Sequences of Mouse Transplantation Antigens.** *Immunogenetics* 7:425-444.

60. Barstad P, Hubert J, Hunkapiller M, Goetze A, Schilling J, Black B, Eaton B, Richards J, Weigert M, Hood L. **(1978) Immunoglobulins with Hapten-Binding Activity: Structure-Function Correlations and Genetic Implications.** *European Journal of Immunology* 8:497-503.
61. Weigert ML, Gatmaitan L, Loh E, Schilling L, Hood L. **(1978) Rearrangement of Genetic Information may Produce Immunoglobulin Diversity.** *Nature* 276:785-790.
62. Bell JR, Hunkapiller MW, Hood LW, Strauss JH. **(1978) Amino-Terminal Sequence Analysis of the Structural Proteins of Sindbis Virus.** *Proceedings of the National Academy of Sciences USA* 75:2722-2726.
63. Loh E, Hood JM, Riblet R, Weigert M, Hood L. **(1979) Comparisons of Myeloma Proteins from NZB and BALB/c Mice: Structural and Functional Differences of Heavy Chains.** *Journal of Immunology* 122:44-48.
64. Loh, E, Black B, Riblet R, Weigert M, Hood JM, Hood L. **(1979) Myeloma Proteins from NZB and BALB/c Mice: Structural and Functional Differences.** *Proceedings of the National Academy of Sciences USA* 76:1395-1399.
65. Cecka JM, McMillan M, Murphy DB, McDevitt HO, Hood L. **(1979) Partial N-Terminal Amino Acid Sequence Analyses and Comparative Tryptic Peptide Maps of Murine Ia Molecules Encoded by the I-A Subregion.** *European Journal of Immunology* 9:955-963.66.
66. McMillan M, Cecka JM, Hood L, Murphy DB, McDevitt HO. **(1979) Peptide Map Analyses of Murine Ia Antigens of the I-E Subregion Using HPLC.** *Nature* 277:663-665.
67. Early PW, Davis MM, Kaback DB, Davidson N, Hood L. **(1979) Immunoglobulin Heavy Chain Gene Organization in Mice: Analysis of a Myeloma Genomic Clone Containing Variable and Alpha Constant Regions.** *Proceedings of the National Academy of Sciences USA* 76:857-861.
68. Schilling J, Hansburg D, Davie JM, Hood L. **(1979) Analysis of the Diversity of Murine Antibodies to Dextran B1355: N-Terminal Amino Acid Sequences of Heavy Chains from Serum Antibody.** *Journal of Immunology* 123:384-388.
69. Kehry M, Sibley C, Fuhrman J, Schilling J, Hood L. **(1979) Amino Acid Sequence of a Mouse Immunoglobulin Chain.** *Proceedings of the National Academy of Sciences USA* 76:2932-2936.
70. Frelinger JG, Hood L, Hill S, Frelinger JA. **(1979) Mouse Epidermal Ia Molecules Have a Bone Marrow Origin.** *Nature* 282:321-323.
71. Dockray GJ, Gregory RA, Hood LE, Hunkapiller MW. **(1979) NH₂-Terminal Dodecapeptide of Porcine Big Gastrin: Revised Sequence and Confirmation of Structure by Immunochemical Analysis.** *Bioorganic Chemistry* 8:465-470.
72. Weiner S, Lowenstam HA, Taborek B, Hood L. **(1979) Fossil Mollusk Shell Organic Matrix Components Preserved for 80 Million Years.** *Paleobiology* 5:144-150.
73. Ewald SJ, Klein J, Hood LE. **(1979) Peptide Map Analysis of Mutant Transplantation Antigens.** *Immunogenetics* 8:551-559.
74. Johnson ND, Hunkapiller MW, Hood LE. **(1979) Analysis of Phenylthiohydantoin Amino Acids by High-Performance Liquid Chromatography on DuPont Zorbax Cyanopropylsilane Columns.** *Analytical Biochemistry* 100:335-338.
75. Elgin SCR, Schilling J, Hood LE. **(1979) Sequence of Histone 2B of Drosophila melanogaster.** *Biochemistry* 18:5679-5685.
76. Chiu AY, Hunkapiller MW, Heller E, Stuart DK, Hood LE, Strumwasser F. **(1979) Purification and Primary Structure of the Neuropeptide Egg-Laying Hormone of Aplysia californica.** *Proceedings of the National Academy of Sciences USA* 76:6656-6660.
77. Hunkapiller MW, Strader CD, Hood L, Raftery MA. **(1979) Amino Terminal Amino Acid Sequence of the Major Polypeptide Subunit of Torpedo Californica Acetylcholine Receptor.** *Biochemical and Biophysical Research Communications* 91:164-169.
78. Goldstein A, Tachibana S, Lowney LI, Hunkapiller MW, Hood LE. **(1979) Dynorphin (1-13), an Extraordinarily Potent Opioid Peptide.** *Proceedings of the National Academy of Sciences USA* 76:6666-6670.
79. Schilling JB, Clevinger J, Davie M, Hood L. **(1980) Amino Acid Sequence of Homogeneous Antibodies to Dextran and DNA Rearrangements in Heavy Chain V-Region Gene Segments.** *Nature* 283:35-40.

80. Davis M, Calame K, Early P, Livant D, Joho R, Weissman I, Hood L. (1980) **An Immunoglobulin Heavy-Chain Gene is Formed by at Least Two Recombinational Events.** *Nature* 283:733-738.
81. Cecka JM, Blankenhorn EP, Goetze D, Hood L. (1980) **Microsequence Analysis of Ia Antigens from Three Strains of Rats.** *European Journal of Immunology* 10:140-145.
82. Blankenhorn, EP, Cecka JM, Frelinger J, Goetze D, Hood L. (1980) **Structure of Ia Antigens from the Rat. Mouse Alloantisera Demonstrate at Least Two Distinct Molecular Species.** *European Journal of Immunology* 10:146-151.
83. Early P, Huang H, Davis M, Calame K, Hood L. (1980) **An Immunoglobulin Heavy Chain Variable Region Gene is Generated from Three Segments of DNA: VH, D and JH.** *Cell* 19:981-992.
84. Schwartz BD, McMillan M, Shevach E, Hahn Y, Rose SM, Hood L. (1980) **Partial N-Terminal Amino Acid Sequences of Guinea Pig Classic Histocompatibility Antigens.** *Journal of Immunology* 125:1055-1059.
85. Joho R, Weissman IL, Early P, Cole J, Hood L. (1980) **Organization of Light Chain Genes in Germ-Line and Somatic Tissue.** *Proceedings of the National Academy of Sciences USA* 77:1106-1110.
86. Hood JM, Huang HV, Hood L. (1980) **A Computer Simulation of Evolutionary Forces Controlling the Size of a Multigene Family.** *Journal of Molecular Evolution* 15:181-196.
87. Calame K, Rogers J, Early P, Davis M, Livant D, Wall R, Hood L. (1980) **Mouse C Heavy Chain Immunoglobulin Gene Segment Contains Three Intervening Sequences Separating Domains.** *Nature* 284:452-455.
88. Choudhury AM, Kenner GW, Moore S, Ramachandran KL, Thorpe WD, Ramage R, Dockray GJ, Gregory RA, Hood L, Hunkapiller M. (1980) **N-Terminal Sequence of Human Big Gastrin: Sequence, Synthetic and Immunochemical Studies.** *Hoppe-Seyler's Z. Physiol. Chem.* 361:1719-1733.
89. Hunkapiller MW, Hood L. (1980) **New Protein Sequenator with Increased Sensitivity.** *Science* 207:523-525.
90. Hunkapiller MW, Hood LE. (1980) **Human Fibroblast Interferon: Amino Acid Analysis and Amino Terminal Amino Acid Sequence.** *Science* 207:525-526.
91. Zoon KC, Smith ME, Bridgen PJ, Anfinsen CB, Hunkapiller MW, Hood LE. (1980) **Amino Terminal Sequence of the Major Component of Human Lymphoblastoid Interferon.** *Science* 207:527-528.
92. Taira HR, Broeze J, Jayaram BM, Lengyel P, Hunkapiller MW, Hood L. (1980) **Mouse Interferons: Amino Terminal Amino Acid Sequences of Various Species.** *Science* 207:528-530.
93. Clevinger B, Schilling J, Hood L, Davie J. (1980) **Structural Correlates of Cross-Reactive and Individual Idiotypic Determinants on Murine Antibodies to alpha-(1 leads to 3) dextran.** *Experimental Medicine* 151:1059-1070.
94. Raftery MA, Hunkapiller MW, Strader CD, Hood LE. (1980) **Acetylcholine Receptor: Complex of Homologous Subunits.** *Science* 208:1454-1457.
95. Chapman BS, Tobin AJ, Hood L. (1980) **Complete Amino Acid Sequences of the Major Early Embryonic-Like Globins of the Chicken.** *Journal of Biological Chemistry* 255:9051-9059.
96. Sibley CH, Ewald SJ, Kehry MR, Douglas RH, Raschke WC, Hood LE. (1980) **Characterization of Multiple Immunoglobulin Chains Synthesized by Two Clones of a B Cell Lymphoma.** *Journal of Immunology* 125:2097-2105.
97. Rogers J, Early P, Carter C, Calame K, Bond M, Hood L, Wall R. (1980) **Two mRNAs with Different 3' Ends Encode Membrane-Bound and Secreted Forms of Immunoglobulin Chain.** *Cell* 20:303-312.
98. Early P, Rogers J, Davis M, Calame K, Bond M, Wall R, Hood L. (1980) **Two mRNAs can be Produced from a Single Immunoglobulin Gene by Alternative RNA Processing Pathways.** *Cell* 20:313-319.
99. Kehry M, Ewald S, Douglas R, Sibley C, Raschke W, Fambrough D, Hood L. (1980) **The Immunoglobulin Chains of Membrane-Bound and Secreted IgM Molecules Differ in Their**

C-Terminal Segments. *Cell* 21:393-406.

100. Okamura H., Berthold W, Hood L, Hunkapiller M, Inoue M, Smith-Johansen H, Yan YH. (1980) **Human Fibroblastoid Interferon: Immunosorbent Column Chromatography and N-Terminal Amino Acid Sequence.** *Biochemistry* 19:3831-3835.
101. Schally AV, Huang WY, Chang RCC, Arimura A, Redding TW, Millar RP, Hunkapiller MW, Hood L. (1980) **Isolation and Structure of Pro-Somatostatin: A Putative Somatostatin Precursor from Pig Hypothalamus.** *Proceedings of the National Academy of Sciences USA* 77:4489-4493.
102. Zoon KC, Smith ME, Bridgen PJ, zur Nedden D, Miller DM, Anfinsen CB, Hunkapiller MW, Hood LE. (1980) **Human Lymphoblastoid Interferon: Purification, Amino Acid Composition, and Amino Terminal Sequence.** *Annals of the New York Academy of Sciences* 350:390-398.
103. Broeze RJ, Taira H, Jayaram BM, Lengyel P, Hunkapiller MW, Hood LE. (1980) **Amino Terminal Sequence of the Mouse Interferon Species A from Ehrlich Ascites Tumor Cells.** *Annals of the New York Academy of Sciences* 350:428-431.
104. Weigert M, Perry R, Kelley D, Hunkapiller T, Schilling J, Hood L. (1980) **The Joining of V and J Gene Segments Creates Antibody Diversity.** *Nature* 283:497-499.
105. Davis MM, Kim SK, Hood LE. (1980) **DNA Sequences Mediating Class Switching in Immunoglobulins.** *Science* 209:1360-1365.
106. Heller E, Kaczmarek LK, Hunkapiller MW, Hood LE, Strumwasser F. (1980) **Purification and Primary Structure of Two Neuroactive Peptides that Cause Bag Cell Afterdischarge and Egg-Laying in Aplysia.** *Proceedings of the National Academy of Sciences USA* 77:2328-2332.
107. Kronenberg M, Davis MM, Early PW, Hood LE, Watson JD. (1980) **Helper and Killer T Cells do not Express B Cell Immunoglobulin Joining and Constant Region Gene Segments.** *Journal of Experimental Medicine* 152:1745-1761.
108. Stanton TH, Hood L. (1980) **Biochemical Identification of the Qa-1 Alloantigen.** *Immunogenetics* 11:309-314.
109. Hood L, Davis M, Early P, Calame K, Kim S, Crews S, Huang H. (1981) **Two Types of DNA Rearrangements in Immunoglobulin Genes.** *Cold Spring Harbor Symposia on Quantitative Biology* 45:887-898.
110. Lafay F, Ewald SJ, McMillan M, Frelinger JA, Hood L. (1981) **Tryptic Peptide Map Analyses of Mouse Transplantation Antigens.** *Immunogenetics* 12:21-32.
111. Gearhart PJ, Johnson ND, Douglas R, Hood L. (1981) **IgG Antibodies to Phosphorylcholine Exhibit More Diversity than their IgM Counterparts.** *Nature* 291:29-34.
112. Moore KW, Rogers J, Hunkapiller T, Early P, Nottenburg C, Weissman I, Bazin H, Wall R, Hood LE. (1981) **Expression of IgD May Use Both DNA Rearrangement and RNA Splicing Mechanisms.** *Proceedings of the National Academy of Sciences USA* 78:1800-1804.
113. McMillan M, Frelinger AA, Jones PP, Murphy DB, McDevitt HO, Hood L. (1981) **Structure of Murine Ia Antigens: Two-Dimensional Electrophoretic Analyses and High-Pressure Liquid Chromatography Tryptic Peptide Maps of Products of the I-A and I-E Subregions and of an Associated Invariant Polypeptide.** *Journal of Experimental Medicine* 153:936-950.
114. Frelinger JG, Frelinger JA, Hood L. (1981) **Peptide Map Comparisons of Epidermal and Spleen H-2 Molecules.** *Immunogenetics* 12:569-577.
115. Steinmetz M, Frelinger JG, Fisher D, Hunkapiller T, Pereira D, Weissman SM, Uehara H, Nathanson S, Hood L. (1981) **Three cDNA Clones Encoding Mouse Transplantation Antigens: Homology to Immunoglobulin Genes.** *Cell* 24:125-134.
116. Crews S, Griffin J, Huang H, Calame K, Hood L. (1981) **A Single VH Gene Segment Encodes the Immune Response to Phosphorylcholine: Somatic Mutation is Correlated with the Class of the Antibody.** *Cell* 25:59-66.
117. Early P, Hood L. (1981) **Allelic Exclusion and Nonproductive Immunoglobulin Gene Rearrangements.** *Cell* 24:1-3.
118. Hewick RM, Hunkapiller MW, Hood LE, Dreyer WJ. (1981) **A Gas-Liquid Solid Phase Peptide and Protein Sequenator.** *Journal of Biological Chemistry* 256:7990-7997.
119. Kenner GW, Moore S, Ramachandran KL, Ramage R, Dockray GJ, Gregory RA, Hood L, Hunkapiller M. (1981) **Porcine Big Gastrin: Sequence, Synthesis, and Immunochemical**

- Studies.** *Biorganic Chemistry* 10:152-160.
120. Chapman BS, Tobin AJ, Hood LE. (1981) **Complete Amino Acid Sequence of the Major Early Embryonic α -Like Globin in Chickens.** *Journal of Biological Chemistry* 256:5524-5531.
 121. Steinmetz M, Moore KW, Frelinger JG, Sher BT, Shen FW, Boyse EA, Hood L. (1981) **A Pseudogene Homologous to Mouse Transplantation Antigens: Transplantation Antigens are Encoded by Eight Exons That Correlate with Protein Domains.** *Cell* 25:683-692.
 122. Hunkapiller MW, Hood LE. (1981) **Microsequence Analysis of Polypeptides Using Automated Edman Degradation. Chemical Synthesis and Sequencing of Peptides and Proteins.** *Developments in Biochemistry* 17:111-118.
 123. Huang H, Crews S, Hood L. (1981) **An Immunoglobulin VH Pseudogene.** *Journal of Molecular and Applied Genetics* 1:93-101.
 124. Ellison J, Buxbaum J, Hood L. (1981) **Nucleotide Sequence of a Human Immunoglobulin C4 Gene.** *DNA* 1:11-18.
 125. Goldstein A, Fischli W, Lowney LI, Hunkapiller M, Hood L. (1981) **Porcine Pituitary Dynorphin: Complete Amino Acid Sequence of the Biologically Active Heptadecapeptide.** *Proceedings of the National Academy of Sciences USA* 78:7219-7223.
 126. Kim S, Davis M, Sinn E, Patten P, Hood L. (1981) **Antibody Diversity: Somatic Hypermutation of Rearranged VH Genes.** *Cell* 27:573-581.
 127. Nicholson BJ, Hunkapiller MW, Grim LB, Hood LE, Revel JP. (1981) **Rat Liver Gap Junction Protein: Properties and Partial Sequence.** *Proceedings of the National Academy of Sciences USA* 78:7594-7598.
 128. Wettstein PJ, Frelinger JG, Hood L. (1981) **Serological and Biochemical Characterization of Rat (RT1) Class II Molecules with Restricted Mouse Anti-Ia Sera.** *Immunogenetics* 13:93-107.
 129. Frelinger JG, Hood L, Wettstein P. (1981) **Analyses of RT1 Products Using Two-Dimensional Polyacrylamide Gels.** *Transplantation Proceedings* 13:1360-1363.
 130. Wettstein PJ, Frelinger JG, Hood L. (1981) **Serologic and Biochemical Analyses of Rat Class II Molecules with Anti-Ia Sera.** *Transplantation Proceedings* 13:1364-1366.
 131. Johnson NJ, Slankard, L Paul, Hood L. (1982) **The Complete V Domain Amino Acid Sequences of Two Myeloma Inulin-Binding Proteins.** *Journal of Immunology* 128:302-307.
 132. Goodenow RS, McMillan M, Orn A, Nicolson M, Davidson N, Frelinger JA, Hood L. (1982) **Identification of a BALB/c H-2Ld Gene by DNA-Mediated Gene Transfer.** *Science* 215:677-679.
 133. Moore KW, Taylor Sher B, Sun YH, Eakle KH, Hood L. (1982) **DNA Sequence of a Gene Encoding a BALB/c Mouse Ld Transplantation Antigen.** *Science* 215:679-682.
 134. Chapman BS, Hood LE, Tobin AJ. (1982) **Amino Acid Sequences of the epsilon and alpha E Globi HbE, a Minor Early Embryonic Hemoglobin of the Chicken.** *Journal of Biological Chemistry* 257:643-650.
 135. Chapman BS, Hood LE, Tobin AJ. (1982) **Minor Early Embryonic Chick Hemoglobin M Amino Acid Sequences of the And D Chains.** *Journal of Biological Chemistry* 257:651-658.
 136. Steinmetz MA, Winoto K, Minard, Hood L. (1982) **Clusters of Genes Encoding Mouse Transplantation Antigens.** *Cell* 28:489-498.
 137. Ellison J, Hood L. (1982) **Linkage and Sequence Homology of Two Human Immunoglobulin Heavy Chain Constant Region Genes.** *Proceedings of the National Academy of Sciences USA* 79:1984-1988.
 138. Orn A, Brayton PR, Woodward JG, Goodenow RS, Harmon RC, Frelinger JA, Hood L. (1982) **Product of a Transferred H-2Ld Gene Acts as Restriction Element for LCMV-Specific Killer T Cells.** *Nature* 297:415-417.
 139. Ellison JW, Berson BJ, Hood LE. (1982) **The Nucleotide Sequence of a Human Immunoglobulin C1 Gene.** *Nucleic Acids Research* 10:4071-4079.
 140. Woodward JG, Orn A, Harmon RC, Goodenow RS, Hood L, Frelinger JA. (1982) **Specific Recognition of the Product of a Transferred Major Histocompatibility Complex Gene by Cytotoxic T Lymphocytes.** *Proceedings of the National Academy of Sciences USA* 79:3613-3617.

141. Fischli W, Goldstein A, Hunkapiller MW, Hood LE. (1982) **Two “Big” Dynorphins from Porcine Pituitary.** *Life Sciences* 31:1769-1772.
142. Fischli W, Goldstein A, Hunkapiller MW, Hood LE. (1982) **Isolation and Amino Acid Sequence Analysis of a 4000-Dalton Dynorphin from Porcine Pituitary.** *Proceedings of the National Academy of Sciences USA* 79:5435-5437.
143. McNicholas J, Steinmetz M, Hunkapiller T, Jones P, Hood L. (1982) **DNA Sequence of the Gene Encoding the E Ia Polypeptide of the BALB/c Mouse.** *Science* 218:1229-1232.
144. Ditto MD, Chou J, Hunkapiller MW, Fennewald MA, Gerrard SP, Hood LE, S. N. Cohen and M. J. Casadaban. (1982) **Amino-Terminal Sequence of the Tn3 Transposase Protein.** *Journal of Bacteriol* 149:407-410.
145. Crews S, Barth R, Hood L, Prehn J, Calame K. (1982) **Mouse c-myc Oncogene is Located on Chromosome 15 and Translocated to Chromosome 12 in Plasmacytomas.** *Science* 218:1319-1321.
146. Steinmetz M, Minard K, Horvath S, McNicholas J, Frelinger J, Wake C, Long E, Mach B, Hood L. (1982) **A Molecular Map of the Immune Response Region from the Major Histocompatibility Complex of the Mouse.** *Nature* 300:35-42.
147. Kehry MR, Fuhrman JS, Schilling JW, Rogers J, Sibley CH, Hood LE. (1982) **Complete Amino Acid Sequence of a Mouse Chain: Homology Among Heavy Chain Constant Region Domains.** *Biochemistry* 21:5415-5424.
148. Calame K, Kim S, Lalley P, Hill R, Davis M, Hood L. (1982) **Molecular Cloning of Translocations Involving Chromosome 15 and the Immunoglobulin C Gene from Chromosome 12 in Two Murine Plasmacytomas.** *Proceedings of the National Academy of Sciences USA* 79:6994-6998.
149. Early P, Nottenburg C, Weissman I, Hood L. (1982) **Immunoglobulin Gene Rearrangements in Normal Mouse B Cells.** *Molecular and Cellular Biology* 2:829-836.
150. Goodenow RS, McMillan M, Nicolson M, Sher BT, Eakle K, Davidson N, Hood L. (1982) **Identification of the Class I Genes of the Mouse Major Histocompatibility Complex by DNA-Mediated Gene Transfer.** *Nature* 300:231-237.
151. Alexander A, Steinmetz M, Barritault D, Frangione B, Franklin EC, Hood L, Buxbaum J. (1982) **Heavy Chain Disease in Man: cDNA Sequence Supports Partial Gene Deletion Model.** *Proceedings of the National Academy of Sciences USA* 79:3260-3264.
152. Martens CL, Moore KW, Steinmetz M, Hood L, Knight KL. (1982) **Heavy Chain Genes of Rabbit IgG: Isolation of a cDNA Encoding -Heavy Chain and Identification of Two Genomic C Genes.** *Proceedings of the National Academy of Sciences USA* 79:6018-6022.
153. Hood L, Steinmetz M, Goodenow R, Eakle K, Fisher D, Kobori J, Malissen B, Malissen M, McMillan M, McNicholas J, Orn A, Pecht M, Sher BT, Smith L, Stroynowski I, Sun H, Winoto A, Zuniga M. (1982) **Genes of the Major Histocompatibility Complex.** *Cold Spring Harbor Symposia on Quantitative Biology* 47:1051-1065.
154. Newman B, Sugii S, Kabat EA, Torii M, Clevinger BL, Schilling J, Bond M, Davie JM, Hood L. (1983) **Combining Site Specificities of Mouse Hybridoma Antibodies to Dextran B1355S.** *Journal of Experimental Medicine* 157:130-140.
155. Goodenow RS, Stroynowski I, McMillan M, Nicolson M, Eakle K, Sher BT, Davidson N, Hood L. (1983) **Expression of Complete Transplantation Antigens by Mammalian Cells Transformed with Truncated Class I Genes.** *Nature* 301:388-394.
156. Hunkapiller MW, Lujan E, Ostrander F, Hood L. (1983) **Isolation of Microgram Quantities of Proteins from Polyacrylamide Gels for Amino Acid Sequence Analysis.** *Methods in Enzymology* 91:227-236.
157. Huang HV, Bond M, Hunkapiller MW, Hood LE. (1983) **Cleavage at Tryptophanyl Residues with Dimethyl Sulfoxide-Hydrochloric Acid and Cyanogen Bromide.** *Methods in Enzymology* 91:318-324.
158. Hunkapiller MW, Hewick RM, Dreyer WK, Hood LE. (1983) **High-Sensitivity Sequencing with a Gas-Phase Sequenator.** *Methods in Enzymology* 91:399-413.
159. Hunkapiller MW, Hood LE. (1983) **Analysis of Phenylthiohydantoin by Ultrasensitive Gradient High-Performance Liquid Chromatography.** *Methods in Enzymology* 91:486-493.

160. Nicholson BJ, Takemoto LJ, Hunkapiller MW, Hood LE, Revel JP. (1983) **Differences Between Liver Gap Junction Protein and Lens MIP-26 from Rat: Implications for Tissue Specificity of Gap Junctions.** *Cell* 32:967-978.
161. Forman JR, Goodenow S, Hood L, Ciavarra R. (1983) **Use of DNA-Mediated Gene Transfer to Analyze the Role of H-2Ld in Controlling the Specificity of Anti-Vesicular Stomatitis Virus Cytotoxic T Cells.** *Journal of Experimental Medicine* 157:1261-1272.
162. Winoto A, Steinmetz M, Hood L. (1983) **Genetic Mapping in the Major Histocompatibility Complex by Restriction Enzyme Site Polymorphisms: Most Mouse Class I Genes Map to the Tla Complex.** *Proceedings of the National Academy of Sciences USA* 80:3425-3429.
163. Doolittle RF, Hunkapiller MW, Hood LE, Devare SG, Robbins KC, Aaronson SC, Antoniades HN. (1983) **Simian Sarcoma onc gene, v-sis, is Derived from the Gene (or Genes) Encoding a Platelet-Derived Growth Factor.** *Science* 221:275-277.
164. Walker LE, Hewick R, Hunkapiller MW, Hood LE, Dreyer WJ, Reisfeld RA. (1983) **N-Terminal Amino Acid Sequences of the Chains of HLA-DR1 and HLA-DR2 Antigens.** *Biochemistry* 22:185-188.
165. Kraig E, Kronenberg M, Kapp JA, Pierce CW, Abruzzini AF, Sorensen CM, Samelson LW, Schwartz RH, Hood LE. (1983) **T and B Cells that Recognize the Same Antigen do not Transcribe Similar Heavy Chain Variable Region Gene Segments.** *Journal of Experimental Medicine* 158:192-209.
166. Kronenberg M, Kraig E, Siu G, Kapp JA, Kappler J, Marrack P, Pierce CW, Hood L. (1983) **Three T-Cell Hybridomas do not Contain Detectable Heavy Chain Variable Gene Transcripts.** *Journal of Experimental Medicine* 158:210-227.
167. Malissen M, Hunkapiller T, Hood L. (1983) **Nucleotide Sequence of a Light Chain Gene of the Mouse I-A Subregion: Ad.** *Science* 221:750-754.
168. Kronenberg M, Steinmetz M, Kobori J, Kraig E, Kapp JA, Pierce CW, Sorensen CM, Suzuki G, Tada T, Hood L. (1983) **RNA Transcripts for I-J Polypeptides are Apparently not Encoded Between the I-A and I-E Subregions of the Murine Major Histocompatibility Complex.** *Proceedings of the National Academy of Sciences USA* 80:5704-5708.
169. Malissen B, Steinmetz M, McMillan M, Pierres M, Hood L. (1983) **Expression of I-Ak Class II Genes in Mouse L Cells after DNA-Mediated Gene Transfer.** *Nature* 305:440-443.
170. Zuniga MC, Malissen B, McMillan M, Brayton PR, Clark SS, Forman J, Hood L. (1983) **Expression and Function of Transplantation Antigens with Altered or Deleted Cytoplasmic Domains.** *Cell* 34(2) 535-544.
171. Roach A, Boylan K, Horvath S, Prusiner SB, Hood LE. (1983) **Characterization of Cloned cDNA Representing Rat Myelin Basic Protein: Absence of Expression in Brain of Shiverer Mutant Mice.** *Cell* 34:799-806.
172. Marquardt H, Hunkapiller MW, Hood LE, Twardzik DR, De Larco JE, Stephenson JR, Todaro GJ. (1983) **Transforming Growth Factors Produced by Retrovirus-Transformed Rodent Fibroblasts and Human Melanoma Cells: Amino Acid Sequence Homology with Epidermal Growth Factor.** *Proceedings of the National Academy of Sciences USA* 80:4684-4688.
173. Frelinger JA, Orn A, Brayton PR, Hood L. (1983) **Use of Cloned H-2 Genes for Study of H-2 Restricted Cytotoxicity: Ld is the LCMV Restriction Element for H-2d.** *Transplantation Proceedings XV* 2024-2026.
174. Perlmutter RM, Klotz JL, Bond MW, Nahm M, Davie JM, Hood L. (1984) **Multiple VH Gene Segments Encode Murine Antistreptococcal Antibodies.** *Journal of Experimental Medicine* 159:179-192.
175. Perlmutter RM, Klotz JL, Pravtcheva D, Ruddle F, Hood L. (1984) **A Novel 6:10 Chromosomal Translocation in the Murine Plasmacytoma NS-1.** *Nature* 307:473-476.
176. Marquardt H, Hunkapiller MW, Hood LE, Todaro GJ. (1984) **Rat Transforming Growth Factor Type 1: Structure and Relation to Epidermal Growth Factor.** *Science* 223:1079-1082.
177. Malissen B, Peele M, Price JM, Goverman M, McMillan J, White J, Kappler P, Marrack A, Pierres M, Pierres, Hood L. (1984) **Gene Transfer of H-2 Class II Genes: Antigen Presentation by Mouse Fibroblast and Hamster B-Cell Lines.** *Cell* 36:319-327.
178. Chang SP, Perlmutter RM, Brown M, Heusser CM, Hood L, Rittenberg MB. (1984) **Immunologic**

- Memory to Phosphocholine. IV. Hybridomas Representative of Group I (T15-Like) and Group II (Non-T15-Like) Antibodies Utilize Distinct VH Genes.** *Journal of Immunology* 132:1550-1555.
179. Todd I, Chang SP, Perlmutter RM, Aebersold R, Heusser CH, Hood L, Rittenberg MB. (1984) **Immunologic Memory to Phosphocholine. V. Hybridomas Representative of Group II Antibodies Utilize V κ 1-3 Gene(s).** *Journal of Immunology* 132:1556-1560.
 180. Kobori JA, Winoto A, McNicholas J, Hood L. (1984) **Molecular Characterization of the Recombination Region of Six Murine Major Histocompatibility Complex (MHC) I-Region Recombinants.** *Journal of Molecular and Cellular Immunology* 1:125-131.
 181. Tempst P, Hunkapiller MW, Hood LE. (1984) **Separation of Peptides by Reverse-Phase High-Performance Liquid Chromatography Using Propyl- and Cyanopropylsilyl Supports.** *Analytical Biochemistry* 137:188-195.
 182. Siu G, Clark SP, Yoshikai Y, Malissen M, Yanagi Y, Strauss E, Mak TW, Hood L. (1984) **The Human T Cell Antigen Receptor is Encoded by Variable, Diversity, and Joining Gene Segments that Rearrange to Generate a Complete V Gene.** *Cell* 37:393-401.
 183. Macchi MJ, Woodward JG, McLaughlin-Taylor E, Griffin J, Hood L, Frelinger J. (1984) **Cloning and Identification of the H-2DP Gene.** *Immunogenetics* 19:195-204.
 184. Davis MM, Cohen DI, Nielsen EA, Steinmetz M, Paul WE, Hood L. (1984) **Cell-Type Specific cDNA Probes and the Murine I Region: The Localization and Orientation of Ad.** *Proceedings of the National Academy of Sciences USA* 81:2194-2198.
 185. Caccia N, Kronenberg M, Saxe D, Haars R, Bruns GAP, Goverman J, Malissen M, Willard H, Yoshikai Y, Simon M, Hood M, Mak TW. (1984) **The T Cell Receptor Chain Genes are Located on Chromosome 6 in Mice and Chromosome 7 in Humans.** *Cell* 37:1091-1099.
 186. Malissen M, Minard K, Mjolsness S, Kronenberg M, Goverman J, Hunkapiller T, Prystowsky MB, Yoshikai Y, Fitch F, Mak TW, Hood L. (1984) **Mouse T Cell Antigen Receptor: Structure and Organization of Constant and Joining Gene Segments Encoding the Polypeptide.** *Cell* 37:1101-1110.
 187. Siu G, Kronenberg M, Strauss, Haars R, Mak TW, Hood L. (1984) **The Structure, Rearrangement and Expression of Db Gene Segments of the Murine T-Cell Antigen Receptor.** *Nature* 311:344-350.
 188. Stroynowski I, Orn A, Goodenow RS, McMillan M, Forman J, Brayton PR, Frelinger J, Hood L. (1984) **Cytotoxic T Lymphocytes Recognize Determinants on the BALB/c-H-2Ld Molecule Controlled by 1 and 2 but not 3 External Domains.** *Immunogenetics* 20:141-154.
 189. Prusiner SB, Groth DF, Bolton DC, Kent SBH, Hood LE. (1984) **Purification and Structural Studies of a Major Scrapie Prion Protein.** *Cell* 38:127-134.
 190. Clark SP, Yoshikai Y, Taylor S, Siu G, Hood L, Mak TW. (1984) **Identification of a Diversity Segment of Human T-Cell Receptor Chain, and Comparison with the Analogous Murine Element.** *Nature* 311:387-389.
 191. Steinmetz M, Malissen M, Hood L, Orn A, Maki RA, Dastoornikoo GR, Stephan D, Gibb E, Romaniuk R. (1984) **Tracts of High or Low Sequence Divergence in the Mouse Major Histocompatibility Complex.** *The EMBO Journal* 3:2995-3003.
 192. Shen FW, Chaganti RSK, Doucette LA, Litman GW, Steinmetz M, Hood L, Boyse EA. (1984) **Genomic Constitution of an H-2: Tla Variant Leukemia.** *Proceedings of the National Academy of Sciences USA* 81:6447-6450.
 193. Graves DT, Owen AJ, Barth RK, Tempst P, Winoto A, Fors L, Hood LE, Antoniades HN. (1984) **Detection of c-sis Transcripts and Synthesis of PDGF-Like Proteins by Human Osteosarcoma Cells.** *Science* 226:972-974.
 194. Perlmutter RM, Ram D, Hood L. (1984) **Chromosomal Translocations and Lymphoid Neoplasia.** *Genes and Cancer* 17:489-499.
 195. Hunkapiller M, Kent S, Caruthers M, Dreyer W, Firca J, Giffin C, Horvath S, Hunkapiller T, Tempst P, Hood L. (1984) **A Microchemical Facility for the Analysis and Synthesis of Genes and Proteins.** *Nature* 310:105-111.
 196. Kronenberg M, Goverman J, Haars R, Malissen M, Kraig E, Phillips L, Delovitch T, Sucui-Foca N, Hood L. (1985) **Rearrangement and Transcription of the α -Chain Genes of the T-Cell**

- Antigen Receptor in Different Types of Murine Lymphocytes.** *Nature* 313:647-653.
197. Yanagi Y, Caccia N, Kronenberg M, Chin B, Roder J, Rohel D, Kiyohara T, Lauzon R, Toyonaga B, Rosenthal K, Dennert G, Acha-Orbea H, Hengartner H, Hood L, Mak TW. (1985) **Gene Rearrangement in Cells with Natural Killer Activity and Expression of the α -Chain of the T-Cell Antigen Receptor.** *Nature* 314:631-633.
 198. Sher BT, Nairn R, Coligan JE, Hood JE. (1985) **DNA Sequence of the Mouse H-2Dd Transplantation Antigen Gene.** *Proceedings of the National Academy of Sciences USA* 82:1175-1179.
 199. Smith LM, Fung S, Hunkapiller MW, Hunkapiller TJ, Hood LE. (1985) **The Synthesis of Oligonucleotides Containing an Aliphatic Amino Group at the 5' Terminus: Synthesis of Fluorescent DNA Primers for Use in DNA Sequence Analysis.** *Nucleic Acids Research* 13:2399-2412.
 200. Perlmutter, RM, Kearney JF, Chang SP, Hood LE. (1985) **Developmentally Controlled Expression of Immunoglobulin VH Genes.** *Science* 227:1597-1601.
 201. Stroynowski I, Forman J, Goodenow RS, Schiffer SG, McMillan M, Sharrow SO, Sachs DH, Hood L. (1985) **Expression and T-Cell Recognition of Hybrid Antigens with Amino- Terminal Domains Encoded by Qa-2 Region of Major Histocompatibility Complex and Carboxyl Termini of Transplantation Antigens.** *Journal of Experimental Medicine* 161:935-952.
 202. Goverman J, Minard K, Shastri N, Hunkapiller T, Hansburg D, Sercarz D, Hood L. (1985) **Rearranged T-Cell Receptor Genes in a Helper T-Cell Clone Specific for Lysozyme: No Correlation Between V and MHC Restriction.** *Cell* 40:859-867.
 203. Oesch B, Westaway D, Wälchli M, McKinley MP, Kent SBH, Aebersold R, Barry RA, Tempst P, Teplow DB, Hood LE, Prusiner SB, Weissmann CA. (1985) **A Cellular Gene Encodes Scrapie PrP 27-30 Protein.** *Cell* 40:735-746.
 204. Arden B, Klotz JL, Siu G, Hood LE. (1985) **Diversity and Structure of Genes of the Family of Mouse T-Cell Antigen Receptor.** *Nature* 316:783-787.
 205. Barth RK, Kim BS, Lan NC, Hunkapiller T, Sobieck N, Winoto A, Gershenfeld H, Okada C, Weissman IL, Hood L. (1985) **The Murine T-Cell Receptor Uses a Limited Repertoire of Expressed V Gene Segments.** *Nature* 316:517-523.
 206. Fisher DA, Hunt III SW, Hood L. (1985) **Structure of a Gene Encoding a Murine Thymus Leukemia Antigen, and Organization of Tla Genes in the BALB/c Mouse.** *Journal of Experimental Medicine* 162:528-545.
 207. Nicholson BJ, Gros DB, Kent SBH, Hood LE, Revel J-P. (1985) **The Mr 28,000 Gap Junction Proteins from Rat Heart and Liver are Different but Related.** *Journal of Biological Chemistry* 260:6514-6517.
 208. Roach A, Takahashi N, Pravtcheva D, Ruddle F, Hood L. (1985) **Chromosomal Mapping of Mouse Myelin Basic Protein Gene and Structure and Transcription of the Partially Deleted Gene in Shiverer Mutant Mice.** *Cell* 42:149-155.
 209. Takahashi N, Roach A, Teplow DB, Prusiner SB, Hood L. (1985) **Cloning and Characterization of the Myelin Basic Protein Gene from Mouse: One Gene can Encode Both 14 kd and 18.5 kd MBPs by Alternate Use of Exons.** *Cell* 42:139-148.
 210. Winoto A, Mjolsness S, Hood L. (1985) **Genomic Organization of the Genes Encoding Mouse T-Cell Receptor Chain.** *Nature* 316:832-836.
 211. Yanagi Y, Caccia N, Kronenberg M, Chin B, Roder J, Rohel D, Kiyohara T, Lauzon R, Toyonaga B, Rosenthal K, Dennert G, Acha-Orbea H, Hengartner H, Hood L, Mak TW. (1985) **Gene Rearrangement in Cells with Natural Killer Activity and Expression of the Chain of the T-Cell Antigen Receptor.** *Nature* 316:631-633.
 212. Stroynowski I, Clark S, Henderson LA, Hood L, McMillan M, Forman J. (1985) **Interaction of 1 with 2 Region in Class I MHC Proteins Contributes Determinants Recognized by Antibodies and Cytotoxic T Cells.** *Journal of Immunology* 135:2160-2166.
 213. Shastri N, Malissen B, Hood L. (1985) **Ia-Transfected L-Cell Fibroblasts Present a Lysozyme Peptide but not the Native Protein to Lysozyme-Specific T Cells.** *Proceedings of the National Academy of Sciences USA* 82:5885-5889.
 214. Naquet P, Malissen B, Bekkhoucha F, Pont S, Pierres A, Hood L, Pierres M. (1985) **L3T4 but**

- Not LFA-1 Participates in Antigen Presentation by Ak-Positive L-Cell Transformants.** *Immunogenetics* 22:247-256.
215. Sun YH, Goodenow RS, Hood L. (1985) **Molecular Basis of the dm1 Mutation in the Major Histocompatibility Complex of the Mouse: A D/L Hybrid Gene.** *Journal of Experimental Medicine* 162:1588-1602.
 216. Straus DS, Stroynowski I, Schiffer SG, Hood L. (1985) **Expression of Hybrid Class I Genes of the Major Histocompatibility Complex in Mouse L Cells.** *Proceedings of the National Academy of Sciences USA* 82:6245-6249.
 217. Diamond AG, Windle JM, Butcher GW, Winoto A, Hood L, Howard JC. (1985) **Identification and Expression of Genes Encoding Rat Class I and II MHC Molecules from Two Genomic Cosmid Libraries.** *Transplantation Proceedings XVII* (3):1808-1811.
 218. Perlmutter RM, Berson B, Griffin JA, Hood L. (1985) **Diversity in the Germline Antibody Repertoire: Molecular Evolution of the T15 VH Gene Family.** *Journal of Experimental Medicine* 162:1998-2016.
 219. DeSimone J, Schroeder WA, Shelton JB, Shelton JR, Kent SBH, Hood L. (1985) **Detection of a Rare Foetal Hemoglobin Chain in Adult Baboons after Treatment with 5-Azacytidine.** *Hemoglobin* 9:217-226.
 220. Golde WT, Kappler JW, Greenstein J, Malissen B, Hood L, Marrack P. (1985) **The MHC-Restricted Antigen Receptor on T Cells: VIII. The Role of the LFA-1 Product.** *Journal of Experimental Medicine* 161:635-640.
 221. Zuniga MC, Hood LE. (1986) **Clonal Variation in Cell-Surface Display of an H-2 Protein Lacking a Cytoplasmic Tail.** *Journal of Cellular Biology* 102:1-10.
 222. Malissen M, McCoy C, Blanc D, Trucy J, Devaux C, Schmitt-Verhulst A-M, Fitch F, Hood L, Malissen B. (1986) **Direct Evidence for Chromosomal Inversion During T-Cell Receptor Gene Rearrangements.** *Nature* 319:28-33.
 223. Robins DM, Malissen M, Hood L, Ferreira A, Walthall D, Mitchell M. (1986) **Multiple C4/Slp Genes Distinguished by Expression After Transfection.** *Molecular and Cellular Biology* 6:134-141.
 224. Aebersold RH, Teplow DB, Hood LE, Kent SBH. (1986) **Electroblotting onto Activated Glass: High Efficiency Preparation of Proteins from Analytical Sodium Dodecyl Sulfate-Polyacrylamide Gels for Direct Sequence Analysis.** *Journal of Biological Chemistry* 261:4229-4238.
 225. Aebersold R, Teplow DB, Hood LE, Kent SBH. (1986) **Electroblotting from Immobiline Isoelectric Focusing Gels for Direct Protein Sequence Determination.** *Peptides of the Biological Fluids* 34:715-718.
 226. Clark-Lewis I, Aebersold R, Ziltener H, Schrader JW, Hood LE, Kent SBH. (1986) **Automated Chemical Synthesis of a Protein Growth Factor for Hemopoietic Cells, Interleukin-3.** *Science* 231:134-139.
 227. Goverman J, Hunkapiller T, Hood L. (1986) **A Speculative View of the Multicomponent Nature of T-Cell Antigen Recognition.** *Cell* 45:475-484.
 228. Haars R, Kronenberg M, Gallatin WM, Weissman IL, Owen FL, Hood L. (1986) **Rearrangement and Expression of T-Cell Antigen Receptor and Gamma Genes During Thymic Development.** *Journal of Experimental Medicine* 164:1-24.
 229. Strauss EC, Kobori JA, Siu G, Hood LE. (1986) **Specific Primer-Directed DNA Sequencing.** *Analytical Biochemistry* 154:353-360.
 230. Yancopoulos GD, Blackwell TK, Suh H, Hood L, Alt FW. (1986) **Introduced T-Cell Receptor Variable Region Gene Segments Recombine in Pre-B Cells: Evidence that B and T Cells Use a Common Recombinase.** *Cell* 44:251-259.
 231. Barry RA, Kent SBH, McKinley MP, Meyer RK, DeAmond SJ, Hood LE, Prusiner SB. (1986) **Scrapie and Cellular Prion Proteins Share Polypeptide Epitopes.** *Journal of Infectious Diseases* 153:848-854.
 232. Concannon P, Pickering L, Kung P, Hood L. (1986) **Diversity and Structure of Human T-Cell Receptor - Chain Variable Region Genes.** *Proceedings of the National Academy of Sciences USA* 83:6598-6602.

233. Malissen B, Shastri N, Pierres M, Hood L. **(1986) Cotransfer of the Ed and Ad Genes into L Cells Results in the Surface Expression of a Functional Mixed-Isotype Ia Molecule.** *Proceedings of the National Academy of Sciences USA* 83:3958-3962.
234. Concannon P, Lai E, Klein M, Siu G, Strauss E, Pickering L, Kung P, Gatti R, Hood L. **(1986) Human T-Cell Receptor Genes: Organization, Diversity and Polymorphism.** *Cold Spring Harbor Symposia on Quantitative Biology* LI:785-795.
235. Pontarotti PA, Mashimo H, Zeff RA, Fisher DA, Hood L, Mellor A, Flavell RA, Nathenson SG. **(1986) Conservation and Diversity in the Class I Genes of the Major Histocompatibility Complex: Sequence Analysis of a Tlab Gene and Comparison with a Tlac Gene.** *Proceedings of the National Academy of Sciences USA* 83:1782-1786.
236. Smith LM, Sanders JZ, Kaiser RJ, Hughes P, Dodd C, Connell CR, Heiner C, Kent SBH, Hood LE. **(1986) Fluorescence Detection in Automated DNA Sequence Analysis.** *Nature* 321:674-679.
237. Tempst P, Woo DL, Teplow DB, Aebersold R, Hood L, Kent SBH. **(1986) Microscale Structure Analysis of a High-Molecular Weight, Hydrophobic Membrane Glycoprotein Fraction with Platelet-Derived Growth Factor-Dependent Kinase Activity.** *Journal of Chromatography* 359:403-412.
238. Newman BA, Liao J, Greuzo F, Sugii S, Kabat EA, Torii M, Clevinger BL, Davie JM, Schilling J, Bond M, Hood L. **(1986) Immunochemical Studies of Mouse Monoclonal Antibodies to Dextran B1355S. II. Combining Site Specificity, Sequence, Idiotype and Affinity.** *Molecular Immunology* 23:413-424.
239. Saxe DF, Takahashi N, Hood L, Simon MI. **(1986) Localization of the Human Myelin Basic Protein Gene (MBP) to Region 18q22Æqter by In Situ Hybridization.** *Cytogenet Cell Genet* 39:246-249.
240. Stephan D, Sun H, Lindahl KF, Meyer E, Hammerling G, Hood L, Steinmetz M. **(1986) Organization and Evolution of D Region Class I Genes in the Mouse Major Histocompatibility Complex.** *Journal of Experimental Medicine* 163:1227-1244.
241. Kobori JA, Strauss E, Minard K, Hood L. **(1986) Molecular Analysis of the Hotspot of Recombination in the Murine Major Histocompatibility Complex.** *Science* 234:173-179.
242. Hunkapiller T, Hood L. **(1986) The Growing Immunoglobulin Gene Superfamily.** *Nature* 323:15-16.
243. Livant D, Blatt C, Hood L. **(1986) One Heavy Chain Variable Region Gene Segment Subfamily in the BALB/c Mouse Contains 500-1000 or More Members.** *Cell* 47:461-470.
244. Siu G, Strauss EC, Lai E, Hood LE. **(1986) Analysis of a Human V Gene Subfamily.** *Journal of Experimental Medicine* 164:1600-1614.
245. Winoto A, Urban JL, Lan NC, Goverman J, Hood L, Hansburg D. **(1986) Predominant Use of a V Gene Segment in Mouse T-Cell Receptors for Cytochrome c.** *Nature* 324:679-682.
246. Hunkapiller T, Hood L. **(1986) Diversification of Immunoglobulins and T-Cell Receptors.** *Progress in Immunology VI*:106-119.
247. Mann DW, Stroynowski I, Hood L, Forman J. **(1987) Cytotoxic T Lymphocytes from Mice with Soluble Class I Q10.** *Journal of Immunology* 138:240-245.
248. Readhead C, Popko B, Takahashi N, Shine HD, Saavedra RA, Sidman RL, Hood L. **(1987) Expression of a Myelin Basic Protein Gene in Transgenic Shiverer Mice: Correction of the Dysmyelinating Phenotype.** *Cell* 48:703-712.
249. Popko B, Puckett C, Lai E, Shine HD, Readhead C, Takahashi N, Hunt III SW, Sidman RL, Hood L. **(1987) Myelin Deficient Mice: Expression of Myelin Basic Protein and Generation of Mice with Varying Levels of Myelin.** *Cell* 48:713-721.
250. Ziltener HJ, Clark-Lewis I, Hood LE, Kent SBH, Schrader JW. **(1987) Antipeptide Antibodies of Predetermined Specificity Recognize and Neutralize the Bioactivity of the Pan-Specific Hemopoietin Interleukin 31.** *Journal of Immunology* 138:1099-1104.
251. Ziltener HJ, Clark-Lewis I, de St. Groth BF, Hood LE, Kent SBH, Schrader JW. **(1987) Antipeptide Antibodies Define the NH₂-Terminal Structure of the Pan-Specific Hemopoietin Interleukin 31.** *Journal of Immunology* 138:1105-1108.
252. Bruist MF, Horvath SJ, Hood LE, Steitz TA, Simon MI. **(1987) Synthesis of a Site-Specific DNA-**

- Binding Peptide.** *Science* 235:777-780.
253. Concannon P, Gatti RA, Hood LE. (1987) **Human T-Cell Receptor V-Gene Polymorphism.** *Journal of Experimental Medicine* 165:1130-1140.
 254. Korber B, Hood L, Stroynowski I. (1987) **Regulation of Murine Class I Genes by Interferons is Controlled by Regions Located Both 5' and 3' to the Transcription Initiation Site.** *Proceedings of the National Academy of Sciences USA* 84:3380-3384.
 255. Kent S, Hood L, Aebersold R, Teplow D, Smith L, Farnsworth V, Cartier P, Hines W, Hughes P, Dodd C. (1987) **Approaches to Sub-Picomole Protein Sequencing.** *BioTechniques* 5:314-321.
 256. Maurer BJ, Lai E, Hamkalo BA, Hood L, Attardi G. (1987) **Novel Submicroscopic Extrachromosomal Elements Containing Amplified Genes in Human Cells.** *Nature* 327:434-437.
 257. Lai E, Barth R, Hood L. (1987) **Genomic Organization of the Mouse T-Cell Receptor –Chain Gene Family.** *Proceedings of the National Academy of Sciences USA* 84:3846-3850.
 258. Behlke MA, Henkel TJ, Anderson SJ, Lan NC, Hood L, Braciale VL, Braciale TJ, Loh DY (1987) **Expression of a Murine Polyclonal T Cell Receptor Marker Correlates with the Use of Specific Members of the V8 Gene Segment Subfamily.** *Journal of Experimental Medicine* 165:25-262.
 259. Horvath SJ, Firca JR, Hunkapiller T, Hunkapiller MW, Hood L. (1987) **An Automated DNA Synthesizer Employing Deoxynucleoside 3' Phosphoramidites.** *Methods in Enzymology* 154:314-326.
 260. Braciale TG, Braciale VL, Winkler M, Stroynowski I, Hood L, Sambrook J, Gething M-J. (1987) **On the Role of the Transmembrane Anchor Sequence of Influenza Hemagglutinin in Target Cell Recognition by Class I MHC-Restricted, Hemagglutinin-Specific Cytolytic T Lymphocytes.** *Journal of Experimental Medicine* 166:678-692.
 261. Passmore HC, Kobori JA, Zimmerer EJ, Spinella DG, Hood L. (1987) **Molecular Characterization of Meiotic Recombination within the Major Histocompatibility Complex of the Mouse. Mapping of Crossover Sites within the I Region.** *Biochemical Genetics* 25:513-526.
 262. Transy C, Nash SR, David-Watine B, Cochet M, Hunt III SW, Hood LE, Kourilsky P. (1987) **A Low Polymorphic Mouse H-2 Class I Gene from the T1a Complex is Expressed in a Broad Variety of Cell Types.** *Journal of Experimental Medicine* 166:341-361.
 263. Klein MH, Concannon P, Everett M, Kim LDH, Hunkapiller T, Hood L. (1987) **Diversity and Structure of Human T-Cell Receptor-Chain Variable Region Genes.** *Proceedings of the National Academy of Sciences USA* 84:6884-6888.
 264. Aebersold RH, Leavitt J, Saavedra RA, Hood LE, Kent SBH. (1987) **Internal Amino Acid Sequence Analysis of Proteins Separated by One- or Two-Dimensional Gel Electrophoresis After in situ Protease Digestion on Nitrocellulose.** *Proceedings of the National Academy of Sciences USA* 84:6970-6974.
 265. Kuo CL, Hood L. (1987) **Antigen/Major Histocompatibility Complex-Specific Activation of Murine T Cells Transfected with Functionally Rearranged T-Cell Receptor Genes.** *Proceedings of the National Academy of Sciences USA* 84:7614-7618.
 266. Stroynowski I, Soloski M, Low MG, Hood L. (1987) **A Single Gene Encodes Soluble and Membrane-Bound Forms of the Major Histocompatibility Qa-2 Antigen: Anchoring of the Product by a Phospholipid Tail.** *Cell* 50:759-768.
 267. Boylan KB, Takahashi N, Diamond M, Hood LE, Prusiner SB. (1987) **DNA Length Polymorphism Located 5' to the Human Myelin Basic Protein Gene.** *American Journal of Human Genetics* 40:387-400.
 268. Hood LE, Hunkapiller MW, Smith LW. (1987) **Automated DNA Sequencing and Analysis of the Human Genome.** *Genomics* 1:201-212.
 269. Smith LM, Kaiser RJ, Sanders JZ, Hood LE. (1987) **The Synthesis and Use of Fluorescent Oligonucleotides in DNA Sequence Analysis.** *Methods in Enzymology* 155:260-301.
 270. Siu G, Springer EA, Huang HV, Hood LE, Crews ST. (1987) **Structure of the T15 VH Gene Subfamily: Identification of Immunoglobulin Gene Promotor Homologies.** *Journal of*

- Immunology* 138:4466-4471.
271. Matsuura A, Shen FW, Fisher DA, Hood L, Boyse EA. (1987) **Transcripts of Tla Genes.** *Immunogenetics* 25:411-415.
 272. Wilson, RK, Lai E, Concannon P, Barth RK, Hood LE. (1988) **Structure, Organization and Polymorphism of Murine and Human T-Cell Receptor and Chain Gene Families.** *Immunological Reviews* 101:149-172.
 273. Barry RA, Vincent MT, Kent SBH, Hood LE, Prusiner SB. (1988) **Characterization of Prion Proteins with Monospecific Antisera to Synthetic Peptides.** *Journal of Immunology* 140:1188-1193.
 274. Korber B, Mermoud N, Hood L, Stroynowski I. (1988) **Regulation of Gene Expression by Interferons: Control of H-2 Promoter Responses.** *Science* 239:1302-1306.
 275. Hood, L. (1988) **Biotechnology and Medicine of the Future.** *JAMA* 259:1837-1844.
 276. Concannon P, Lai E, Speiser C, Klein M, Barth R, Hood L. (1988) **Human T-Cell Receptor Genes: Diversity, Polymorphism, and a Physical Map of the Locus.** *Recent Advances in Leukemia and Lymphoma* 60:3-12 (*UCLA Symposia on Molecular and Cellular Biology*).
 277. Ziltener HJ, Clark-Lewis I, de St. Groth BF, Orban PC, Hood LE, Kent SBH, Schrader JW. (1988) **Monoclonal Antipeptide Antibodies Recognize IL-3 and Neutralize its Bioactivity inVivo.** *Journal of Immunology* 140:1182-1187.
 278. Woolf T, Lai E, Kronenberg M, Hood L. (1988) **Mapping Genomic Organization by Field Inversion and Two-Dimensional Gel Electrophoresis: Application to the Murine T-Cell Receptor Gene Family.** *Nucleic Acids Research* 16:3863-3875.
 279. Lai E, Concannon P, Hood L. (1988) **Conserved Organization of the Human and Murine T-Cell ReceptorGene Families.** *Nature* 331:543-546.
 280. Popko B, Puckett C, Hood L. (1988) **A Novel Mutation in Myelin-Deficient Mice Results in Unstable Myelin Basic Protein Gene Transcripts.** *Neuron* 1:221-225.
 281. Jameson BA, Rao PE, Kong LI, Hahn BH, Shaw GM, Hood LE, Kent SBH. (1988) **Location and Chemical Synthesis of a Binding Site for HIV-1 on the CD4 Protein.** *Science* 240:1335-1339.
 282. Birren BW, Lai E, Clark SM, Hood L, Simon MI. (1988) **Optimized Conditions for Pulsed- Field-Gel Electrophoretic Separations of DNA.** *Nucleic Acids Research* 16:7563-7582.
 283. Soloski MJ, Hood L, Stroynowski I. (1988) **Qa-Region Class I Gene Expression: Identification of a Second Class I Gene, Q9, Encoding a Qa-2 Polypeptide.** *Proceedings of the National Academy of Sciences USA* 85:3100-3104.
 284. Urban JL, Kumar V, Kono DH, Gomez C, Horvath SJ, Clayton J, Ando DG, Sercarz EE, Hood L. (1988) **Restricted Use of T-Cell Receptor V Genes in Murine Autoimmune Encephalomyelitis Raises Possibilities for Antibody Therapy.** *Cell* 54:577-592.
 285. Clark SM, Lai e, Birren BW, Hood L. (1988) **A Novel Instrument for Separating Large DNA Molecules Using Pulsed Homogeneous Electric Fields.** *Science* 241:1203-1205.
 286. Kono DH, Urban JL, Horvath SJ, Ando DG, Saavedra RA, Hood L. (1988) **Two Minor Determinants of Myelin Basic Protein Induce Experimental Allergic Encephalomyelitis in SJL/J Mice.** *Journal of Experimental Medicine* 168:213-227.
 287. Landegren U, Kaiser R, Sanders J, Hood L. (1988) **A Ligase-Mediated Gene Detection Technique.** *Science* 241:1077-1080.
 288. Turk E, Teplow DB, Hood LE, Prusiner SB. (1988) **Purification and Properties of the Cellular and Scrapie Hamster Prion Proteins.** *Eur. Journal of Biochem.* 176:21-30.
 289. Párraga G, Horvath SJ, Eisen A, Taylor WE, Hood L, Young ET, Klevit RE. (1988) **Zinc-Dependent Structure of a Single-Finger Domain of Yeast ADR1.** *Science* 241:1489-1492.
 290. Aebersold R, Pipes G, Nika H, Hood LE, Kent SBH. (1988) **Covalent Immobilization of Proteins for High-Sensitivity Sequence Analysis: Electroblothing onto Chemically Activated Glass from Sodium Dodecyl Sulfate-Polyacrylamide Gels.** *Biochemistry* 27:6860-6867.
 291. Wilson RK, Yuen AS, Clark SM, Spence C, Arakelian P, Hood LE. (1988) **Automation of Dideoxynucleotide DNA Sequencing Reactions Using a Robotic Workstation.** *BioTechniques* 6:776-787.
 292. Clark-Lewis I, Hood LE, Kent SBH. (1988) **Role of Disulfide Bridges in Determining the**

- Biological Activity of Interleukin 3.** *Proceedings of the National Academy of Sciences USA* 85:7897-7901.
293. Lai E, Birren B, Clark SM, Hood L. (1988) **Relaxation Intervals Alter the Mobility of Large DNA Molecules in Pulsed Field Gel Electrophoresis.** *Nucleic Acids Research* 16:10376.
 294. Landegren U, Kaiser R, Caskey CT, Hood L. (1988) **DNA Diagnostics - Molecular Techniques and Automation.** *Science* 242:229-237.
 295. Popko B, Puckett C, Hood L. (1988) **The Use of Molecular Biology in the Understanding, Diagnosis, and Treatment of Central Nervous System Disorders.** *Neurosurgery (State of the Art Reviews)* 3:177-184.
 296. Aebersold RH, Pipes G, Hood LE, Kent SBH. (1988) **N-Terminal and Internal Sequence Determination of Microgram Amounts of Proteins Separated by Isoelectric Focusing in Immobilized pH Gradients.** *Electrophoresis* 9:520-530.
 297. Kappes JC, Morrow CD, Lee SW, Jameson BA, Kent SBH, Hood LE, Shaw GM, Hahn BH. (1988) **Identification of a Novel Retroviral Gene Unique to HIV-2 and SIMMAC.** *Journal of Virology* 62:3501-3505.
 298. Sasaki A, Liotta AS, Margioris AN, Tempst P, Hood LE, Kent SBH, Krieger DT. (1988) **Isolation and Characterization of a Corticotropin-Releasing Hormone-Like Peptide from Human Placenta.** *Journal of Clinical Endocrinology and Metabolism* 67:768-773.
 299. Nishimura MI, Stroynowski I, Hood L, Ostrand-Rosenberg S. (1988) **H-2Kb Antigen Expression has no Effect on NK Susceptibility and Tumorigenicity of a Murine Hepatoma1.** *Journal of Immunology* 141:4403-4409.
 300. Malissen M, Trucy J, Letourneur F, Rebai N, Dunn DE, Fitch FW, Hood L, Malissen B. (1988) **A T-Cell Clone Expresses Two T Cell Receptor Genes but Uses One Heterodimer for Allorecognition and Self MHC-Restricted Antigen Recognition.** *Cell* 55:49-59.
 301. Klotz JL, Barth RK, Kiser GL, Hood LE, Kronenberg M. (1989) **Restriction Fragment Length Polymorphisms of the Mouse T-Cell Receptor Gene Families.** *Immunogenetics* 29:191-201.
 302. Mann DW, Stroynowski I, Hood L, Forman J. (1989) **An H-2Ld Hybrid Molecule with a Qa-2 - 3 Domain and Phosphatidyl-Inositol Anchor is not Recognized by H-2Ld-Specific Cytotoxic T Lymphocytes.** *Journal of Immunology* 142:0318-0322.
 303. Lai E, Birren BW, Clark SM, Simon MI, Hood L. (1989) **Pulsed Field Gel Electrophoresis.** *BioTechniques* 7:34-42.
 304. Hunkapiller T, Hood L. (1989) **Diversity of the Immunoglobulin Gene Superfamily.** *Advances in Immunology* 44:1-63.
 305. Beall SS, Concannon P, Charmley O, McFarland HF, Gatti RA, Hood LE, McFarlin DE, Biddison WE. (1989) **The Germline Repertoire of T Cell Receptor Chain Genes in Patients with Chronic Progressive Multiple Sclerosis.** *Journal of Neuroimmunology* 21:59-66.
 306. Lai E, Davi NA, Hood LE. (1989) **Effect of Electric Field Switching on the Electrophoretic Mobility of Single-Stranded DNA Molecules in Polyacrylamide Gels.** *Electrophoresis* 10:65-67.
 307. Fisher DA, Pecht M, Hood LE. (1989) **DNA Sequence of a Class I Pseudogene from the Tla Region of the Murine MHC: Recombination at a B2 Alu Repetitive Sequence.** *Journal of Molecular Evolution* 28:306-312.
 308. Ferrier P, Covey LR, Suh H, Winoto A, Hood L, Alt FW. (1989) **T Cell Receptor DJ but not VDJ Rearrangement within a Recombination Substrate Introduced into a Pre-B Cell Line.** *International Immunology* 1:66-74.
 309. Levedakou EN, Landegren U, Hood LE. (1989) **A Strategy to Study Gene Polymorphism by Direct Sequence Analysis of Cosmid Clones and Amplified Genomic DNA.** *BioTechniques* 7:438-442.
 310. Clark-Lewis I, Lopez A, Luen B, Vadas M, Schrader JW, Hood LE, Kent SBH. (1989) **Structure-Function Studies of Human Granulocyte-Macrophage Colony-Stimulating Factor: Identification of Amino Acids Required for Activity, and an 84-Residue Active Fragment.** *Journal of Immunology* 141:881-889.
 311. Sharrow SO, Arn JS, Stroynowski I, Hood L, Sachs DH. (1989) **Epitope Clusters of Qa-2**

- Antigens Defined by a Panel of New Monoclonal Antibodies.** *Journal of Immunology* 142:3495-5202.
312. Diamond AG, Hood LE, Howard JC, Windle M, Winoto A. (1989) **The Class II Genes of the Rat MHC.** *Journal of Immunology* 142:3268-3274.
313. Hedley ML, Hunt III SW, Brorson KA, Andris JS, Hood K, Forman J, Tucker PW. (1989) **Analysis of D2d: A D-Region Class I Gene.** *Immunogenetics* 29:359-365.
314. Kaiser RJ, MacKellar SL, Vinayak RS, Sanders JZ, Saavedra RA, Hood LW. (1989) **Specific-Primer-Directed DNA Sequencing Using Automated Fluorescence Detection.** *Nucleic Acids Research* 17:6087-6102.
315. Saavedra RA, Fors L, Aebersold RH, Arden B, Horvath S, Sanders J, Hood L. (1989) **The Myelin Proteins of the Shark Brain are Similar to the Myelin Proteins of the Mammalian Peripheral Nervous System.** *Journal of Molecular Evolution* 29:149-156.
316. Matsuura A, Schloss R, Shen F-W, Tung J-S, Hunt III S-W, Fisher DA, Hood LE, Boyse EA. (1989) **Expression of the Q8/9d Gene by T Cells of the Mouse.** *Immunogenetics* 30:156-161.
317. Haraguchi T, Fisher S, Olofsson S, Endo T, Groth D, Tarentino A, Teplow D, Hood L, Burlingame A, Lycke E, Kobata A, Prusiner SB. (1989) **Asparagine-Linked Glycosylation of the Scrapie and Cellular Prion Proteins.** *Archives of Biochemistry and Biophysics* 274:1-13.
318. Biddison WE, Beall SS, Concannon P, Charmley P, Gatti RA, Hood LE, McFarland HF, McFarlin DE. (1989) **The Germline Repertoire of T-Cell Receptor Beta-Chain Genes in Patients with Multiple Sclerosis.** *Research in Immunology* 140:212-215.
319. Brorson KA, Richards S, Hunt III SW, Cheroutre H, Lindahl KF, Hood L. (1989) **Analysis of a New Class I Gene Mapping to the Hmt Region of the Mouse.** *Immunogenetics* 30:273-283.
320. Brorson KA, Hunt III SW, Hunkapiller T, Sun YH, Cheroutre H, Nickerson DA, Hood L. (1989) **Comparison of Exon 5 Sequences from 35 Class I Genes of the BALB/c Mouse.** *Journal of Experimental Medicine* 170:1837-1858.
321. Birren, BW, Hood L, Lai E. (1989) **Pulsed Field Gel Electrophoresis: Studies of DNA Migration Made with the Programmable, Autonomously Controlled Electrode (PACE) Apparatus.** *Electrophoresis* 10:302-309.
322. Birren BW, Lai E, Hood L, Simon MI. (1989) **Pulsed Field Gel Electrophoresis Techniques for Separating 1- to 50-Kilobase DNA Fragments.** *Analytical Biochemistry* 177:282-286.
323. Hunkapiller T, Goverman J, Koop BF, Hood L. (1989) **Implications of the Diversity of the Immunoglobulin Gene Superfamily.** *Cold Spring Harbor Symposia on Quantitative Biology LIV*:15-29.
324. Ferrier P, Krippel B, Furley AJ, Blackwell TK, Suh H, Mendelsohn M, Winoto A, Cook WD, Costantini L, Alt FW. (1989) **Control of VDJ Recombinase Activity.** *Cold Spring Harbor Symposia on Quantitative Biology LIV*:191-202.
325. Hood L, Kumar V, Osman G, Beall SS, Gomez C, Funkhouser W, Kono DH, Nickerson D, Zaller DM, Urban JL. (1989) **Autoimmune Disease and T-Cell Immunologic Recognition.** *Cold Spring Harbor Symposia on Quantitative Biology LIV*:859-874.
326. Ostrand-Rosenberg S, Nickerson DA, Garcia EP, Clements VK, Lamouse-Smith E, Hood L, Stroynowski E. (1989) **Embryonal Carcinoma Cells Express Qa and T1a Class I Genes of the MHC.** *Proceedings of the National Academy of Sciences USA* 86:5084-5088.
327. Olson M, Hood L, Cantor C, Botstein D. (1989) **A Common Language for Physical Mapping of the Human Genome.** *Science* 245:1434-1435.
328. Clayton JP, Cammon GM, Ando DG, Kono DH, Hood L, Sercarz EE. (1989) **Peptide-Specific Prevention of Experimental Allergic Encephalomyelitis.** *Journal of Experimental Medicine* 169:1681-1691.
329. Lai E, Wilson RK, Hood LE. (1990) **Physical Maps of the Mouse and Human Immunoglobulin-Like Loci.** *Advances in Immunology* 46:1-59.
330. Parraga G, Horvath S, Hood L, Young ET, Klevit RE. (1990) **Spectroscopic Studies of Wild-Type and Mutant "Zinc Finger" Peptides: Determinants of Domain Folding and Structure.** *Proceedings of the National Academy of Sciences USA* 87:137-141.
331. Boylan KB, Takahashi N, Paty DW, Sadovnick AD, Diamond M, Hood LE, Prusiner SB. (1990) **DNA Length Polymorphism 5' to the Myelin Basic Protein Gene is Associated with Multiple**

- Sclerosis.** *Annals of Neurology* 27:291-297.
332. Wilson R, Chen C, Hood L. (1990) **Optimization of Asymmetric Polymerase Chain Reaction for Rapid Fluorescent DNA Sequencing.** *BioTechniques* 8:184-189.
 333. Goverman J, Gomez SM, Segesman KD, Hunkapiller T, Laug WE, Hood L. (1990) **Chimeric Immunoglobulin—T-Cell Receptor Proteins Form Functional Receptors: Implications for T-Cell Receptor Complex Formation and Activation.** *Cell* 60:929-939.
 334. Wilson RK, Chen C, Avdalovic N, Burns J, Hood L. (1990) **Development of an Automated Procedure for Fluorescent DNA Sequencing.** *Genomics* 6:626-634.
 335. Zaller DM, Osman G, Kanagawa O, Hood L. (1990) **Prevention and Treatment of Murine Experimental Allergic Encephalomyelitis with T-Cell Receptor V-Specific Antibodies.** *Journal of Experimental Medicine* 171:1943-1955.
 336. Aebersold R, Pipes GD, Wettenhall REH, Nika H, Hood LE. (1990) **Covalent Attachment of Peptides for High Sensitivity Solid-Phase Sequence Analysis.** *Analytical Biochemistry* 187:56-65.
 337. Readhead C, Hood L. (1990) **The Dysmyelinating Mouse Mutations Shiverer (shi) and Myelin Deficient (shimld).** *Behavior Genetics* 20:213-234.
 338. Boylan KB, Ayres TM, Popko B, Takahashi N, Hood LE, Prusiner SB. (1990) **Repetitive DNA (TGGA)_n 5' to the Human Myelin Basic Protein Gene: A New Form of Oligonucleotide Repetitive Sequence Showing Length Polymorphism.** *Genomics* 6:16-22.
 339. Gomez CM, Muggleton-Harris AL, Whittingham DG, Hood LE, Readhead C. (1990) **Rapid Preimplantation Detection of Mutant (Shiverer) and Normal Alleles of the Mouse Myelin Basic Protein Gene Allowing Selective Implantation and Birth of Live Young.** *Proceedings of the National Academy of Sciences USA* 87:4481-4484.
 340. Charmley P, Chao A, Concannon P, Hood L, Gatti RA. (1990) **Haplotyping the Human T-Cell Receptor Chain Gene Complex by Use of Restriction Fragment Length Polymorphisms.** *Proceedings of the National Academy of Sciences USA* 87:4823-4827.
 341. Koop BF, Wilson RK, Chen C, Halloran N, Sciammas R, Hood L. (1990) **Sequencing Reactions in Microtiter Plates.** *BioTechniques* 9:32, 34-37.
 342. Fors L, Saavedra RA, Hood L. (1990) **Cloning of the Shark Po Promoter Using a Genomic Walking Technique Based on the Polymerase Chain Reaction.** *Nucleic Acids Research* 18:2793-2799.
 343. Ulker N, Hood LE, Stroynowski I. (1990) **Molecular Signals for Phosphatidylinositol Modification of the Qa-2 Antigen.** *Journal of Immunology* 145:2214-2219.
 344. Seto D, Rohrabacher C, Seto J, Hood L. (1990) **Phosphorescent Zinc Sulfide is a Nonradioactive Alternative for Marking Autoradiograms.** *Analytical Biochemistry* 189:51-53.
 345. Oesch B, Teplow DB, Stahl N, Serban D, Hood LE, Prusiner SB. (1990) **Identification of Cellular Proteins Binding to the Scrapie Prion Protein.** *Biochemistry* 29:5848-5855.
 346. Nickerson DA, Kaiser R, Lappin S, Stewart J, Hood L, Landegren U. (1990) **Automated DNA Diagnostics Using an ELISA-Based Oligonucleotide Ligation Assay.** *Proceedings of the National Academy of Sciences USA* 87:8923-8927.
 347. Kumar V, Urban JL, Horvath SJ, Hood L. (1990) **Amino Acid Variations at a Single Residue in an Autoimmune Peptide Profoundly Affect its Properties: T-Cell Activation, Major Histocompatibility Complex Binding, and Ability to Block Experimental Allergic Encephalomyelitis.** *Proceedings of the National Academy of Sciences USA* 87:1337-1341.
 348. Ulker N, Lewis KD, Hood LE, Stroynowski I. (1990) **Activated T Cells Transcribe an Alternatively Spliced mRNA Encoding a Soluble Form of Qa-2 Antigen.** *The EMBO Journal* 9:3839-3847.
 349. Ferrier P, Krippel B, Blackwell TK, Furley AJW, Suh H, Winoto A, Cook WD, Hood L, Costantini F, Alt FW. (1990) **Separate Elements Control DJ and VDJ Rearrangement in a Transgenic Recombination Substrate.** *The EMBO Journal* 9:117-125.
 350. Readhead C, Takasashi N, Shine HD, Saavedra R, Sidman R, Hood L. (1990) **Role of Myelin Basic Protein in the Formation of Central Nervous System Myelin.** *Annals of the New York Academy of Sciences* 605:280-285.
 351. Wilson RK, Lai E, Kim LDH, Hood L. (1990) **Sequence and Expression of a Novel Human T-**

- Cell Receptor-Chain Variable Gene Segment Subfamily.** *Immunogenetics* 32:406-412.
352. Klein J, Benoist C, David CS, Demant P, Lindahl KF, Flaherty L, Flavell RA, Hammerling U, Hood LE, Hunt III SW. (1990) **Revised Nomenclature of Mouse H-2 Genes.** *Immunogenetics* 32:147-149.
 353. Sanders JZ, Petterson AA, Hughes PJ, Connell CR, Raff M, Menchen S, Hood LE, Teplow B. (1991) **Imaging as a Tool for Improving Length and Accuracy of Sequence Analysis in Automated Fluorescence-Based DNA Sequencing.** *Electrophoresis* 12:3-11.
 354. Yates III JR, Zhou J, Griffin PR, Hood LE. (1991) **Computer Aided Interpretation of Low Energy MS/MS Mass Spectra of Peptides.** *Techniques in Protein Chemistry II* 46:477-485.
 355. Kaiser R, Hunkapiller T, Hood L. (1991) **Light on Molecular Recognition.** *Nature* 350:656-657.
 356. Hunkapiller T, Kaiser RJ, Koop BF, Hood L. (1991) **Large-Scale DNA Sequencing.** *Current Opinion in Biotechnology* 2:92-101.
 357. Mononen I, Heisterkamp N, Kaartinen V, Williams JC, Yates III JR, Griffin PR, Hood LE, Groffen J. (1991) **Aspartylglycosaminuria in the Finnish Population: Identification of Two Point Mutations in the Heavy Chain of Glycosparaginase.** *Proceedings of the National Academy of Sciences USA* 88:2941-2945.
 358. Kaartinen V, Williams JC, Tomich J, Yates III JR, Hood L, Mononen I. (1991) **Glycosaparaginase from Human Leukocytes. Inactivation and Covalent Modification with Diazo-Oxonorvaline.** *Journal of Biological Chemistry* 266:5860-5869.
 359. Wettenhall REH, Aebersold RH, Hood LE. (1991) **Solid-Phase Sequencing of ³²P-Labeled Phosphopeptides at Picomole and Subpicomole Levels.** *Methods in Enzymology* 201:186-199.
 360. Charmley P, Beall SS, Concannon P, Hood L, Gatti RA. (1991) **Further Localization of a Multiple Sclerosis Susceptibility Gene on Chromosome 7q Using a New T-Cell Receptor-Chain DNA Polymorphism.** *Journal of Neuroimmunology* 32:231-240.
 361. Aldrich CJ, Lowen LC, Mann D, Nishimura M, Hood L, Stroynowski I, Forman J. (1991) **The Q7 3 Domain Alters T Cell Recognition of Class I Antigens.** *Journal of Immunology* 146:3082-3090.
 362. Cheroutre H, Kronenberg M, Brorson K, Hunt III SW, Eghtesady P, Hood L, Nickerson DA. (1991) **Analysis of MHC Class I Gene Expression in Adult Bone Marrow and Fetal Liver of the BALB/c Mouse.** *Journal of Immunology* 146:3263-3272.
 363. Lai E, Wang k, Avdalovic N, Hood L. (1991) **Rapid Restriction Map Constructions Using a Modified pWE15 Cosmid Vector and a Robotic Workstation.** *BioTechniques* 11:212-217.
 364. Puckett C, Concannon P, Casey C, Hood L. (1991) **Genomic Structure of the Human Prion Protein Gene.** *American Journal of Genetics* 49:320-329.
 365. Puckett C, Gomez CM, Korenberg JR, Tung H, Meier TJ, Chen XN, Hood L. (1991) **Molecular Cloning and Chromosomal Localization of One of the Human Glutamate Receptor Genes.** *Proceedings of the National Academy of Sciences USA* 88:7557-7561.
 366. Aldrich CJ, Hammer RE, Jones-Youngblood S, Koszinowski U, Hood L, Stroynowski I, Forman J. (1991) **Negative and Positive Selection of Antigen-Specific Cytotoxic T Lymphocytes Affected by the alpha 3 domain of MHC I molecules.** *Nature* 352:718-21.
 367. Hunkapiller T, Kaiser RJ, Koop BF, Hood L. (1991) **Large-Scale and Automated DNA Sequence Determination.** *Science* 254:59-67.
 368. Wilson RK, Hood L. (1991) **High-Throughput Fluorescent DNA Sequence Analysis: Methods and Automation.** *METHODS: A Companion to Methods in Enzymology* 3:48-54.
 369. Hunkapiller T, Hood L. (1991) **LIMS and the Human Genome Project.** *BioTechnology* 9:1344-1345.
 370. Harrington MG, Gudeman D, Zewert T, Hood L. (1991) **Analytical and Micropreparative Two-Dimensional Electrophoresis of Proteins.** *METHODS: A Companion to Methods in Enzymology* 3:98-108.
 371. Harrington MG, Hood L, Puckett C. (1991) **Simultaneous Analysis of Phosphoproteins and Total Cellular Proteins from PC12 Cells.** *METHODS: A Companion to Methods in Enzymology* 3:135-141.
 372. Yager T, Nickerson DA, Hood L. (1991) **The Human Genome Project: Creating an**

- Infrastructure for Biology and Medicine.** *Trends in Biochemical Sciences* 16:454, 456-461.
373. Hood L, Delahunty C, Nickerson D. (1991) **Automated DNA Fingerprinting, Polymorphic Sequence Tagged Sites, and Forensics.** *Crime Laboratory Digest* 18:4.
374. Griffin PR, Coffman JA, Hood LE, Yates III JR. (1991) **Structural Analysis of Proteins by Capillary HPLC Electrospray Tandem Mass Spectrometry.** *International Journal of Mass Spectrometry and Ion Processes* 111:131-149.
375. Wright JA, Hood L, Concannon P. (1991) **Human T-Cell Receptor V-Gene Polymorphism.** *Human Immunology* 32:277-283.
376. Nickerson DA, Whitehurst C, Boysen C, Charmley P, Kaiser R, Hood L. (1992) **Identification of Clusters of Biallelic Polymorphic Sequence-Tagged Sites (pSTSs) That Generate Highly Informative and Automatable Markers for Genetic Linkage Mapping.** *Genomics* 12:377-387.
377. Hood L, Koop B, Goverman J, Hunkapiller T. (1992) **Model Genomes: The Benefits of Analyzing Homologous Human and Mouse Sequences.** *Trends in BioTechniques* 10:19-22.
378. Shine HD, Readhead C, Popko B, Hood L, Sidman RL. (1992) **Morphometric Analysis of Normal, Mutant, and Transgenic CNS: Correlation of Myelin Basic Protein Expression to Myelinogenesis.** *Journal of Neurochemistry* 58:342-349.
379. Lessnick SL, Lyczak JB, Bruce C, Lewis DG, Kim PS, Stolorow ML, Hood L, Wisnieski BJ. (1992) **Localization of Diphtheria Toxin Nuclease Activity to Fragment A.** *Journal of Bacteriology* 174:2032-2038.
380. Koop BF, Wilson RK, Wang K, Vernooij B, Zaller D, Kuo CL, Seto D, Toda M, Hood L. (1992) **Organization, Structure, and Function of 95 kb of DNA Spanning the Murine T-Cell Receptor C/C Region.** *Genomics* 13:1209-1230.
381. Harrington MG, Coffman JA, Calzone FJ, Hood LE, Britten RJ, Davidson EH. (1992) **Complexity of Sea Urchin Embryo Nuclear Proteins That Contain Basic Domains.** *Proceedings of the National Academy of Sciences USA* 89:6252-6256.
382. Seto D, Koop BF, Seto J, Hood L. (1992) **Complete Nucleotide Sequence of the Cosmid Vector pWE15A.** *Nucleic Acids Research* 20:3786.
383. Coffman JA, Moore JG, Calzone FJ, Hood LE, Britten RJ, Davidson EH. (1992) **Automated Sequential Affinity Chromatography of Sea Urchin Embryo DNA Binding Proteins.** *Mol. Marine Biol. and Biotech* 1:136-146.
384. Kobori JA, Hood L, Shastri N. (1992) **Structure-Function Relationship Among T-Cell Receptors Specific for Lysozyme Peptides Bound to Ab or Abm-12 Molecules.** *Proceedings of the National Academy of Sciences USA* 89:2940-2944.
385. Funkhouser SW, Concannon P, Charmley P, Vredevoe DL, Hood L. (1992) **Differences in T Cell Receptor Restriction Fragment Length Polymorphisms in Patients with Rheumatoid Arthritis.** *Arthritis & Rheumatism* 35:465-471.
386. Orr SL, Gese E, Hood L. (1992) **A New Approach to Understanding T Cell Development: The Isolation and Characterization of Immature CD4-, CD8-, CD3- T Cell cDNAs by Subtraction Cloning.** *Molecular Biology of the Cell* 3:761-773.
387. Yun M, Wu W, Hood L, Harrington M. (1992) **Human Cerebrospinal Fluid Protein Database: Edition 1992.** *Electrophoresis* 13:1002-1013.
388. Eghtesady P, Brorson KA, Cheroutre H, Tigelaar RE, Hood L, Kronenberg M. (1992) **Expression of Mouse Tla Region Class I Genes in Tissues Enriched for T Cells.** *Immunogenetics* 36:377-388.
389. Kwok PY, Gremaud MF, Nickerson DA, Hood L, Olson MV. (1992) **Automatable Screening of Yeast Artificial-Chromosome Libraries Based on the Oligonucleotide-Ligation Assay.** *Genomics* 13:935-941.
390. Yun M, Wu M, Hood L, Harrington M. (1992) **Human Cerebrospinal Fluid Protein Database: Edition 1992.** *Electrophoresis* 13:1002-1013.
391. Wilson RK, Koop BF, Chen C, Halloran N, Sciammis R, Hood L. (1992) **Nucleotide Sequence Analysis of 95 kb Near the 3' End of the Murine T-Cell Receptor/ Chain Locus: Strategy and Methodology.** *Genomics* 13:1198-1208.
392. Kevles DJ, Hood L. (November 8, 1992) **The Genetic Labyrinth.** *The Los Angeles Times Magazine*, 28-30, 46-48.

393. Charmley P, Wang K, Hood L, Nickerson D. (1993) **Identification and Physical Mapping of a Polymorphic Human T-Cell Receptor V Gene with a Frequent Null Allele.** *Journal of Experimental Medicine* 177:135-143.
394. Jensen NA, Smith GM, Shine HD, Garvey JS, Hood L. (1993) **Distinct Hypomyelinated Phenotypes in MBP-SV40 Large T Transgenic Mice.** *Journal of Neuroscience Research* 34:257-264.
395. Fors L, Hood L, Saavedra RA. (1993) **Sequence Similarities of Myelin Basic Protein Promoters From Mouse and Shark: Implications for the Control of Gene Expression in Myelinating Cells.** *Journal of Neurochemistry* 60:513-521.
396. Osman GE, Toda M, Kanagawa O, Hood LE. (1993) **Characterization of the T Cell Receptor Repertoire Causing Collagen Arthritis in Mice.** *Journal of Experimental Medicine* 177:387-95.
397. Goverman J, Woods A, Larson L, Weiner LP, Hood L, Zaller D. (1993) **Transgenic Mice That Express a Myelin Basic Protein-Specific T Cell Receptor Develop Spontaneous Autoimmunity.** *Cell* 72:551-560.
398. Stahl N, Baldwin MA, Teplow DB, Hood L, Gibson BW, Burlingame AL, Prusiner SB. (1993) **Structural Studies of the Scrapie Prion Protein Using Mass Spectrometry and Amino Acid Sequencing.** *Biochemistry* 32:1991-2002.
399. Seto D, Koop BF, Hood L. (1993) **An Experimentally Derived Data Set Constructed for Testing Large-Scale DNA Sequence Assembly Algorithms.** *Genomics* 15:673-676.
400. Hood L, Koop BF, Rowen L, Wang K. (1993) **Large-Scale DNA Sequence Analyses of Mammalian T-Cell Receptor Loci. Genome Analysis, Regional Physical Mapping** Cold Spring Harbor Laboratory Press 5:63-87.
401. Jensen NA, Smith GM, Garvey JS, Shine HD, Hood L. (1993) **Cyclic AMP Has a Differentiative Effect on an Immortalized Oligodendrocyte Cell Line.** *Journal of Neuroscience Research* 35:288-296.
402. Drmanac R, Drmanac S, Strezoska Z, Paunesku T, Labat I, Zeremski M, Snoddy J, Funkhouser WF, Koop B, Hood L, Crkvenjakov R. (1993) **DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing.** *Science* 260:1649-1652.
403. Jensen NA, Rodriguez ML, Garvey JS, Miller CA, Hood L. (1993) **Transgenic Mouse Model for Neurocristopathy: Schwannomas and Facial Bone Tumors.** *Proceedings of the National Academy of Sciences USA* 90:3192-3196.
404. Kaiser R, Hunkapiller T, Heiner C, Hood L. (1993) **Specific Primer-Directed DNA Sequence Analysis Using Automated Fluorescence Detection and Labeled Primers.** *Methods in Enzymology* 218:122-153.
405. Vernooij BJ, Lenstra A, Wang K, Hood L. (1993) **Organization of the Murine T-Cell Receptor Locus.** *Genomics* 17 (3):566-574.
406. Harrington MG, Aebersold R, Martin BO, Merrill CR, Hood L. (1993) **Identification of a Brain-Specific Human Cerebrospinal Fluid Glycoprotein,-Trace Protein.** *Applied and Theoretical Electrophoresis* 3:229-234.
407. Wang Y, Kobori JA, Hood L. (1993) **The Ht Gene Encodes a Novel CACCC Box-Binding Protein That Regulates T-Cell Receptor Gene Expression.** *Molecular and Cell Biology* 13:5691-5701.
408. Koop BF, Rowen L, Chen WQ, Deshpande P, Lee H, Hood L. (1993) **Sequence Length and Error Analysis of Sequence and Automated Taq Cycle Sequencing Methods.** *BioTechniques* 14:442-447.
409. Mathisen P, Pease S, Garvey J, Hood L, Readhead C. (1993) **Identification of an Embryonic Isoform of Myelin Basic Protein That is Expressed Widely in the Mouse Embryo.** *Proceedings of the National Academy of Sciences USA* 90:10125-10129.
410. Harrington MG, Lee KH, Yun M, Zewert T, Bailey JE, Hood L. (1993) **Mechanical Precision in Two-Dimensional Electrophoresis Can Improve Protein Spot Positional Reproducibility.** *Applied and Theoretical Electrophoresis* 3:347-353.
411. Du Z, Hood L, Wilson RK. (1993) **Automated Fluorescent DNA Sequencing of Polymerase Chain Reaction Products.** *Methods in Enzymology* 218:104-121.
412. Beall S, Biddison WE, McFarlin DE, McFarland HF, Hood LE. (1993) **Susceptibility for Multiple**

- Sclerosis is Determined, In Part, by Inheritance of a 175-kb Region of the TcR V- Chain Locus and HLA Class II Genes.** *Journal of Neuroimmunology* 45:1-2.
413. Hood L, Koop BF, Rowen L, Wang K. (1993) **Human and Mouse T Cell Receptor Loci: The Importance of Comparative Large Scale DNA Sequence Analyses.** *Cold Spring Harbor Symposia on Quantitative Biology LVIII*:339-348.
414. Charmley P, Nickerson D, Hood L. (1994) **Polymorphism Detection and Sequence Analysis of Human T-Cell Receptor V-Chain-Encoding Gene Segments.** *Immunogenetics* 39:138-145.
415. Koop BF, Hood L. (1994) **Striking Sequence Similarity Over Almost 100 kilobases of Human and Mouse T-Cell Receptor DNA.** *Nature Genetics* 7:48-53.
416. Koop BF, Rowen L, Wang K, Kuo CL, Seto D, Lenstra JA, Howard S, Shan W, Deshpande P, Hood L. (1994) **The Human T-Cell Receptor TCRAC/TCRDC (C/C) Region: Organization, Sequence and Evolution of 97.6 kb of DNA.** *Genomics* 19:478-493.
417. Slightom JL, Siemieniak DR, Sieu LC, Koop BF, Hood L. (1994) **Nucleotide Sequence Analysis of 77.7 kb of the Human V- T-Cell Receptor Gene Locus: Direct Primer-Walking Using Cosmid Template DNAs.** *Genomics* 20:149-168.
418. Fujiyoshi T, Hood LE, Yoo TJ. (1994) **Restoration of Brain Stem Auditory-Evoked Potentials by Gene Transfer in Shiverer Mice.** *Annals of Otolaryngology, Rhinology & Laryngology* 103(6):449-456.
419. Yager TD, Zewert TE, Hood LE. (1994) **The Human Genome Project.** *Accounts of Chemical Research* 27:94-100.
420. Wang K, Koop BF, Hood L. (1994) **A Simple Method Using T4 DNA Polymerase to Clone Polymerase Chain Reaction Products.** *Benchmarks* 17 (2):236-238.
421. Wang K, Lam KC, Chuan CK, Kyung LM, Paeper B, Koop BF, June YT, Hood L. (1994) **Structural Analysis of the Mouse T-Cell Receptor Tcra V2 Subfamily.** *Immunogenetics* 40:116-122.
422. Wang K, Klotz JL, Kiser G, Bristol G, Hays E, Lai E, Gese E, Kronenberg M, Hood L. (1994) **Organization of the V Gene Segments in Mouse T-Cell Antigen Receptor / locus.** *Genomics* 20:419-428.
423. Seto D, Seto J, Deshpande P, Hood L. (1994) **DMSO Resolves Certain Compressions and Signal Dropouts in Fluorescent Dye Labeled Primer-Based DNA Sequencing Reactions. DNA Sequence.** *The Journal of Sequencing and Mapping* 5:131-140.
424. Nishimura MI, Yutaka K, Charmley P, O'Neil B, Shilyansky J, Yannelli, Rosenberg SA, Hood L. (1994) **T-Cell Receptor Repertoire in Tumor-Infiltrating Lymphocytes. Analysis of Melanoma-Specific Long-Term Lines.** *Journal of Immunology* 16:85-94.
425. Wang K, Kuo C, Koop BF, Hood L. (1994) **The Expression of Mouse T-Cell Receptor TCRDV Genes in BALB/c Spleen.** *Immunogenetics* 40:271-279.
426. Seto D, Koop BF, Deshpande P, Howard S, Seto J, Wilk E, Wang K, Hood L. (1994) **Organization, Sequence, and Function of 34.5 kb of Genomic DNA Encompassing Several Murine T-Cell Receptor / Variable Gene Segments.** *Genomics* 20:258-266.
427. Slightom JL, Siemieniak DR, Koop BF, Hood L. (1994) **The Complete Nucleotide Sequence of Cosmid Vector pTL5: Location and Origin of its Genetic Components.** *Gene* 147:77-79.
428. Harrington MG, Lee KH, Bailey JE, Hood LE. (1994) **Sponge-Like Electrophoresis Media: Mechanically Strong Materials Compatible with Organic Solvents, Polymer Solutions and Two-Dimensional Electrophoresis.** *Electrophoresis* 15:187-194.
429. Orr SL, Hughes TP, Sawyers CL, Kato RM, Quan SG, Williams SP, Witte ON, Hood L. (1994) **Isolation of Unknown Genes from Human Bone Marrow by Differential Screening and Single-Pass cDNA Sequence Determination.** *Proceedings of the National Academy of Sciences.* 91:11869-11873.
430. Huang GM, Wang K, Kuo C, Paeper B, Hood L. (1994) **A High-Throughput Plasmid DNA Preparation Method.** *Analytical Biochemistry* 223:35-38.
431. Wang K, Gan L, Boysen C, Hood L. (1995) **A Microtiter Plate-Based High-Throughput DNA Purification Method.** *Analytical Biochemistry* 226:85-90.
432. Li H, Hood L. (1995) **Multiplex Genotype Determination at a DNA Sequence Polymorphism Cluster in the Human Immunoglobulin Heavy-Chain Region.** *Genomics* 26:199-206.

433. Wang K, Gan L, Lee I, Hood L. (1995) **Isolation and Characterization of the Chicken Trypsinogen Gene Family.** *Biochem. J.* 307:471-479.
434. Hood L, Rowen L, Koop BF. (1995) **Human and Mouse T-Cell Receptor Loci: Genomics, Evolution, Diversity, and Serendipity.** *Annals of the New York Academy of Sciences* 758:390-414.
435. Roach JC, Boysen C, Wang K, Hood L. (1995) **Pairwise End Sequencing: A Unified Approach to Genomic Mapping and Sequencing.** *Genomics* 26:345-353.
436. Charmley P, Concannon P, Hood L, Rowen L. (1995) **Frequency and Polymorphism of Simple Sequence Repeats in a Contiguous 685-kb DNA Sequence Containing the Human T-Cell Receptor -Chain Gene Complex.** *Genomics* 29:760-765.
437. McIndoe RA, Linhardt MS, Hood L. (1995) **Single Tube Genomic DNA Isolation from Whole Blood without Pre-Isolating White Blood Cells.** *Benchmarks* 19:30-32.
438. Dattamajumdar AK, Jacobson DP, Hood LE, Osman GE. (1996) **Rapid Cloning of any Rearranged Mouse Immunoglobulin Variable Genes.** *Immunogenetics* 43:141-151.
439. Dong P, Hood L, McIndoe RA. (1996) **Detection of a Large RIII-Derived Chromosomal Segment on Chromosome 10 in the H-2 Congenic Strain B10.RIII (71NS)/Sn.** *Genomics* 31:266-269.
440. Blanchard AP, Kaiser RJ, Hood L. (1996) **High-Density Oligonucleotide Arrays.** *Biosensors & Bioelectronics* 11:687-690.
441. Baldwin RL, Stolowitz ML, Hood L, Wisnieski BJ. (1996) **Structural Changes of Tumor Necrosis Factor-Associated with Membrane Insertion and Channel Formation.** *Proceedings of the National Academy of Sciences* 93:1021-1026.
442. McIndoe RA, Bumgarner RE, Welti R, Hood L. (1996) **High Throughput Genotyping: Practical Considerations Concerning the Day to Day Application.** *Proceedings of the International Society for Optical Engineering* 2680:341-348.
443. McElrath MJ, Corey L, Greenberg PD, Matthews TJ, Montefiori DC, Rowen L, Hood L, Mullins J. (1996) **Human Immunodeficiency Virus Type-I Infection Despite Prior Immunization with a Recombinant Envelope Vaccine Regimen.** *Proceedings of the National Academy of Sciences* 93:3972-3977.
444. Rowen L, Koop BF, Hood L. (1996) **The Complete 685 kb DNA Sequence of the Human T Cell Receptor Locus.** *Science* 272:1755-1762.
445. McIndoe RA, Hood L, and Bumgarner RE. (1996) **An Analysis of the Dynamic Range and Linearity of an Infrared DNA Sequencer.** *Electrophoresis* 17:652-658.
446. Boysen C, Carlson C, Hood E, Hood L, Nickerson DA. (1996) **Identifying DNA Polymorphisms in Human TCR / Variable Genes by Direct Sequencing of PCR Products.** *Immunogenetics* 44:121-127.
447. Suzuki M, Baskin D, Hood L, Loeb LA. (1996) **Random Mutagenesis of Thermus Aquaticus DNA Polymerase I: Concordance of Immutable Sites in vivo with the Crystal Structure.** *Proceedings of the National Academy of Sciences USA* 93:9670-9675.
448. Smith TM, Lee MK, Lee CI, Szabo N, Jerome M, McEuen, Taylor M, Hood L, King MC. (1996) **Complete Genomic Sequence and Analysis of 117 kb of Human DNA Containing the Gene BRCA1.** *Genome Research* 6:1029-1049.
449. Dattamajumdar AK, Li SW, Jacobson DP, Ladiges W, Hood LE, Osman GE. (1996) **Characterization of the Mouse Tcra-V22 Gene Subfamily.** *Immunogenetics* 44:432-440.
450. Huang GM, Farkas J, Hood L. (1996) **High-Throughput cDNA Screening Utilizing a Low Order Neural Network Filter.** *BioTechniques* 21:1110-1114.
451. Ng W, Schummer M, Cirisano F, Baldwin RL, Karlan BY, Hood L. (1996) **High-Throughput Plasmid Mini Preparations Facilitated by Micro-Mixing.** *Nucleic Acids Research* 24:5045-5047.
452. Blanchard, A.P. and L. Hood. (1996) **Sequence to Array: Probing the Genome's Secrets.** *Nature BioTechnology* 14:1649.
453. Osman GE, Jacobson DP, Li SW, Hood LE, Liggitt HD, Ladiges WC. (1997) **SWR: An Inbred Strain Suitable for Generating Transgenic Mice.** *Laboratory Animal Science* 47:167-171.
454. Hood L, Rowen, L. (1997) **The Impact of Genomics on 21st Century Medicine.** *Contemporary*

Urology 9:86-98.

455. Smith TM, Abajian C, Hood L. (1997) **Hopper: Software for Automating Data Tracking and Flow in DNA Sequencing.** *CABIOS* 13:175-182.
456. Suzuki M, Avicola AK, Hood L, Loeb LA. (1997) **Low Fidelity Mutants in the O-Helix of *Thermus aquaticus* DNA Polymerase I.** *Journal of Biological Chemistry* 272:11228-11235.
457. Boysen C, Simon MI, Hood L. (1997) **Analysis of the 1.1-Mb Human / T-Cell Receptor Locus with Bacterial Artificial Chromosome Clones.** *Genome Research* 7:330-338.
458. Li L, Krantz, Deng Y, Genin A, Banta AB, Collins CC, Qi M, Trask BJ, Kuo WL, Cochran J, Costa T, Pierpont MEM, Rand EB, Piccoli DA, Hood L, Spinner NB. (1997) **Alagille Syndrome is Caused by Mutations in Human Jagged1, Which Encodes a Ligand for Notch1.** *Nature Genetics* 16:243-251.
459. Varma CK, Li SW, Hood LE, Ladiges W, Osman GE. (1997) **Rapid Detection of Bovine Type II Collagen-Specific T-Cell Hybridomas.** *Hybridoma* 16:287-290.
460. McIndoe, R.A., J.L. Stanford, M. Gibbs, G.P. Jarvik, S. Brandzel, C.L. Neal, S. Li, J.T. Gammack, A.A. Gay, E.L. Goode, L. Hood and E.A. Ostrander. (1997) **Linkage Analysis of 49 High-Risk Families Does Not Support a Common Familial Prostate Cancer—Susceptibility Gene at 1q24-25.** *American Journal of Human Genetics* 61:347-535.
461. Liu AY, True LD, LaTray L, Nelson PS, Ellis WJ, Vessella RL, Lange PH, Hood L, Van den Engh G. (1997) **Cell-Cell Interaction in Prostate Gene Regulation and Cytodifferentiation.** *Proceedings of the National Academy of Sciences USA* 94:10705-10710.
462. Liu AY, Corey E, Vessella RL, Lange PH, True LD, Huang GM, Nelson PS, Hood L. (1997) **Identification of Differentially Expressed Prostate Genes: Increased Expression of Transcription Factor ETS-2 in Prostate Cancer.** *The Prostate* 30:145-153.
463. Wang K, Gan L, Kuo CL, Hood L. (1997) **A Highly Conserved Apoptotic Suppressor Gene is Located Near the Chicken T-Cell Receptor Alpha Chain Constant Region.** *Immunogenetics* 46:376-382.
464. Han, D.K.M., P.M. Chaudhary, M.E. Wright, C. Friedman, B.J. Trask, R.T. Riedel, D.G. Baskin, S.M. Schwartz and L. Hood. (1997) **MRIT, A Novel Death-Effector Domain-Containing Protein, Interacts with Caspases and Bc1XL and Initiates Cell Death.** *Proceedings of the National Academy of Sciences USA* 97:11333-11338.
465. Rowen L, Mahairas G, Hood L. (1997) **Sequencing the Human Genome.** *Science* 278:605-607.
466. Funkhouser W, Koop BF, Charmley P, Martindale D, Slightom J, Hood L. (1997) **Evolution and Selection of Primate T Cell Antigen Receptor BV8 Gene Subfamily.** *Molecular Phylogenetics and Evolution* 8:51-64.
467. Henikoff S, Greene EA, Pietrokovski E, Bork P, Attwood TK, Hood L. (1997) **Gene Families: The Taxonomy of Protein Paralogs and Chimeras.** *Science* 278:609-614.
468. Boysen C, Simon MI, Hood L. (1997) **Fluorescence-Based Sequencing Directly From Bacterial and P1-Derived Artificial Chromosomes.** *Benchmarks* 23:978-982.
469. Edmonson P, Murphey-Corb M, Martin LN, Delahunty C, Heeney J, Kornfeld H, Donahue PE, Learn GH, Hood L, and Mullins JI. (1998) **Evolution of a Simian Immunodeficiency Virus Pathogen.** *Journal of Virology* 72:405-414.
470. Schummer M, Ng WL, Nelson PA, Bumgarner RE, Hood L. (1997) **Inexpensive Handheld Device for the Construction of High-Density Nucleic Acid Arrays.** *BioTechniques* 23:1087-1092.
471. Chaudhary PM, Eby M, Jasmin A, Bookwalter A, Murray J, Hood L. (1997) **Death Receptor 5, A New Member of the TNFR Family, and DR4 Induce FADD-Dependent Apoptosis and Activate the NF-kb Pathway.** *Immunity* 7:821-830.
472. Roach JC, Wang K, Gan L, Hood L. (1997) **The Molecular Evolution of the Vertebrate Trypsinogens.** *Journal of Molecular Evolution* 45:640-652.
473. Hood L, Lange PH. (1997) **The Coming Revolution in Urology.** *Contemporary Urology* 9(6):33-50.
474. Hood L, Lange PH. (1997) **Preparing for the Urologic Revolution.** *Contemporary Urology* 9(7):39-58.

475. Cheng K-C, Chiang H-J, Wang K, Krug MS, Yoo T-J, Hood L. (1997) **TCRV and TCRJ Gene Usage in MBP Responding T Cells from (B10.PL X PL/J) F1 Mice is Biased Towards that of B10.PL Mice.** *Journal of Neuroimmunology* 80:13-22.
476. Wang K, Boysen C, Shizuya H, Simon MI, Hood L. (1997) **Complete Nucleotide Sequence of Two Generations of a Bacterial Artificial Chromosome Cloning Vector.** *Benchmarks* 23:992-993.
477. Li L, Milner LA, Deng Y, Iwata M, Banta A, Graf L, Marcovina S, Friedman C, Trask BJ, Hood L, Torok-Storb B. (1998) **The Human Homolog of Rat Jagged1 Expressed by Marrow Stroma and Inhibits Differentiation of 32D Cells Through Interaction with Notch1.** *Immunity* 8:43-55.
478. Nelson PS, Plymate SR, Wang K, True KD, Ware JL, Gan K, Liu AY, Hood L. (1998) **Hevin, an Antiadhesive Extracellular Matrix Protein, is Down-Regulated in Metastatic Prostate Adenocarcinoma.** *Cancer Research* 58:232-236.
479. Nelson PS, Ng WL, Schummer M, True LD, Liu AY, Bumgarner RE, Ferguson C, Dimak A, Hood L. (1998) **An Expressed-Sequence-Tag Database of the Human Prostate: Sequence Analysis of 1,168 cDNA Clones.** *Genomics* 47:12-25.
480. Kuo CL, Chen M-L, Wang M-L, Chou C-K, Vernooij B., Seto D., Koop BF, Hood L. (1998) **A Conserved Sequence Block in Murine and Human T Cell Receptor (TCR) J- Region is a Composite Element That Enhances TCR - Enhancer Activity and Binds Multiple Nuclear Factors.** *Proceedings of the National Academy of Sciences* 95:3839-3844.
481. Li L, Huang GM, Banta AB, Deng Y, Smith T, Dong P, Friedman C, Chen L, Trask BJ, Spies T, Rowen L, Hood L. (1998) **Cloning, Characterization, and the Complete 56.8-Kilobase DNA Sequence of the Human NOTCH4 Gene.** *Genomics* 51:45-58.
482. Osman GE, Cheunsuk S, Allen SE, Chi E, Liggitt HD, Hood LE, Ladiges WC. (1998) **Expression of a Type II Collagen-Specific TCR Transgene Accelerates the Onset of Arthritis in Mice.** *International Immunology* 10:1613-1622.
483. Lee IY, Westaway D, Smit AFA, Wang K, Seto J, Chen L, Acharya C, Ankener M, Baskin D, Cooper C, Yao H, Prusiner SB, Hood LE. (1998) **Complete Genomic Sequence and Analysis of the Prion Protein Gene Region from Three Mammalian Species.** *Genome Research* 8:1022-1037.
484. Frenkel LM, Mullins JI, Learn GH, Manns-Arcuino L, Herring BL, Kalish ML, Steketee RW, Thea DM, Nichols JE, Liu S_L, Harmache A, He X, Muthui D, Madan A, Hood L, Haase AT, Zupancic M, Staskus K, Wolinsky S, Krogstad P, Zhao J-Q, Chen I, Koup R, Ho D, Korber B, Apple R.J., Coombs R.W., Pahwa S, Roberts Jr. NJ. (1998) **Genetic Evaluation of Suspected Cases of Transient HIV-1 Infection of Infants.** *Science* 280:1073-1077.
485. Ng WV, Ciufu SA, Smith TM, Bumgarner RE, Baskin D, Faust J, Hall B, Loretz C, Seto J, Slagel J, Hood L, DasSarma S. (1998) **Snapshot of a Large Dynamic Replicon in a Halophilic Archaeon: Megaplasmid or Minichromosome?** *Genome Research* 8:1131-1141.
486. Chaudhary PM, Ferguson C, Nguyen V, Nguyen O, Massa HF, Eby M, Jasmin A, Trask BJ, Hood L, Nelson PS. (1998) **Cloning and Characterization of Two Toll/Interleukin-1 Receptor- Like Genes TIL3 and TIL4: Evidence for a Multi-Gene Receptor Family in Humans.** *Blood* 91:4020-4027.
487. Yun TJ, Chaudhary PM, Shu GL, Frazer JK, Ewings MK, Schwartz SM, Pascual C, Hood LE, Clark EA. (1998) **OPG/FDCR-1, a TNF Receptor Family Member, is Expressed in Lymphoid Cells and is Up-regulated by Ligating CD40.** *Journal of Immunology* 161:6113- 6121.
488. Choi KB, Harlan JM, Chaudhary PM, Hood L, Karsan A. (1998) **Lipopolysaccharide Mediates Endothelial Cell Apoptosis by a FADD-Dependent Pathway.** *Journal of Biological Chemistry* 273(32):20185-20188.
489. Hawkins V, Doll D, Bumgarner R, Smith R, Abajian C, Hood L, Nelson PS. (1999) **PEDB: The Prostate Expression Database.** *Nucleic Acids Research* 27:204-208.
490. Smith TM, Hood L. (1999) **What Are Biologists Going To Do With All These Data?** *Mathematical Modelling and Scientific Computing* 9:155-162.
491. Nelson PS, Gan L, Ferguson C, Moss P, Gelinis R, Hood R, Wang K. (1999) **Molecular**

- Cloning and Characterization of Prostase, An Androgen-Regulated Serine Protease with Prostate- Restricted Expression.** *Proceedings of the National Academy of Sciences USA* 96:3114-3119.
492. Wang K, Gan L, Jeffery E, Gayle M, Gown AM, Skelly M, Nelson PS, V. Ng WL, Schummer M, Hood L, Mulligan J. **(1999) Monitoring Gene Expression Profile Changes in Ovarian Carcinomas Using cDNA Microarray.** *Gene* 229:101-108.
493. Siegel AF, Trask B, Roach JC, Mahairas GG, Hood L, van den Engh G. **(1999) Analysis of Sequence-Tagged-Connector Strategies for DNA Sequencing.** *Genome Research* 9:297-307.
494. Law CL, Ewings MK, Chaudhary PM, Solow SA, Yun TJ, Marshall AJ, Hood L, Clark EA. **(1999) GrpL, a Grb2-Related Adaptor Protein Interacts with SLP-76 to Regulate Nuclear Factor of Activated T Cell Activation.** *Journal of Experimental Medicine* 189(8):1243-1253.
495. Osman GE, Hannibal MC, Anderson JP, Cheunsuk S, Lasky SR, Liggitt HD, Hood LE. **(1999) T- Cell Receptor V- Deletion and V- Polymorphism are Responsible for the Resistance of SWR Mouse to Arthritis Induction.** *Immunogenetics.* 49:764-772.
496. Osman GE, Hannibal MC, Anderson JP, Lasky SR, Ladiges WC, Hood L. **(1999) FVB/N (H-2q) Mouse Is Resistant to Arthritis Induction and Exhibits a Genomic Deletion of T-Cell Receptor V Beta Gene Segments.** *Immunogenetics* 49:851-859.
497. Chaudhary, P.M., M.T. Eby, A. Jasmin and L. Hood. **(1999) Activation of the c-June N-Terminal Kinase/Stress-Activated Protein Kinase Pathway by Overexpression of Caspase 8 and Its Homologs.** *Journal of Biological Chemistry* 274:19211-19219.
498. Mahairas GG, Wallace JC, Smith K, Swartzell S, Holzman T, Keller A, Shaker R, Furlong J, Young J, Zhao S, Adams MD, Hood L. **(1999) Sequence-Tagged Connectors: A Sequence Approach to Mapping and Scanning the Human Genome.** *Proceedings of the National Academy of Sciences USA* 96:9739-9744.
499. Liu, AY, True LD, LaTray L, Ellis WJ, Vessella RL, Lange PH, Higano CS, Hood L, van den Engh G. **(1999) Analysis and Sorting of Prostate Cancer Cell Types by Flow Cytometry.** *The Prostate* 40:192-199.
500. Moore RC, Lee IY, Silverman GL, Harrison PM, Strome R, Heinrich C, Karunaratne A, Pasternak SH, Azhar Chishti M, Liang Y, Mastrangelo P, Wang K, Smit AFA, Katamine S, Carlson GA, Cohen FE, Prusiner SB, Melton DW, Tremblay P, Hood LE, Westaway D. **(1999) Ataxia in Prion Protein (PrP)-Deficient Mice is Associated with Upregulation of the Novel PrP-Like Protein Doppel.** *Journal of Molecular Biology* 292:797-817.
501. Cheunsuk S, Gerken E, Osman G, Hood L, Ladiges W. **(1999) Predictive Parameters of Joint Disease in DBA/1 Transgenic Mice.** *Journal of Gerontology. Biological Sciences* 54A:B271-B275.
502. Huang GM, Ng WL, Farkas J, He L, Liang HA, Gordon D, Yu J, Hood L. **(1999) Prostate Cancer Expression Profiling by cDNA Sequencing Analysis.** *Genomics* 59:178-186.
503. Schummer M, V. Ng WL, Bumgarner RE, Nelson PS, Schummer B, Bednarski DW, Hassell L, Baldwin RL, Karlan BY, Hood L. **(1999) Comparative Hybridization of an Array of 21,500 Ovarian cDNAs for the Discovery of Genes Overexpressed in Ovarian Carcinomas.** *Gene* 238:375-385.
504. Lee Y-H, Huang GM, Cameron RA, Graham G, Davidson EH, Hood L, Britten RJ. **(1999) EST Analysis of Gene Expression in Early Cleavage-Stage Sea Urchin Embryos.** *Development* 126:3857-3867.
505. Zong Q, Schummer M, Hood L, Morris DR. **(1999) Messenger RNA Translation State: The Second Dimension of High-Throughput Expression Screening.** *Proceedings of the National Academy of Sciences USA* 96:10632-10636.
506. Aguado B, Bahram S, Beck S, Campbell RD, Forbes S, Geraghty D, Guillaudeux T, Hood L, Horton R, Inoko H, Janer M, Jasoni C, Madan A, Milne S, Neville M, Oka A, Qin S, Ribas- Despuig G, Rogers J, Rowen L, Shiina T, Spies T, Tamiya G, Tashiro H, Trowsdale J, Vu Q, Williams L, Yamazaki M. **(1999) Complete Sequence and Gene Map of a Human Major Histocompatibility Complex (MHC).** *Nature* 401:921-923.
507. Nelson PS, Hawkins V, Schummer M, Bumgarner R, Ng W, Ideker T, Ferguson C, Hood L. **(1999)**

- Negative Selection: A Method for Obtaining Low-Abundance cDNAs Using High-Density cDNA Clone Arrays.** *Genetic Analysis Biomolecular Engineering* 15:209-215.
508. Jarvik GP, Stanford JL, Goode EL, Hood L, Ostrander EA. (1999) **Confirmation of Prostate Cancer Susceptibility Genes Using High Risk Families.** *Journal of the National Cancer Institute* 26:81-87.
 509. Chaudhary PM, Eby MT, Jasmin A, Gemmil A, Hood L. (1999) **Modulation of the NF- κ B Pathway by Virally Encoded Death Effector Domains-Containing Proteins.** *Oncogene* 18:5738-46.
 510. Gibbs M, Stanford JL, McIndoe RA, Jarvik GP, Kolb S, Goode EL, Chakrabarti L, Schuster EF, Buckley VA, Miller EL, Brandzel S, Li S, Hood L, Ostrander EA. (1999) **Evidence for a Rare Prostate Cancer-Susceptibility Locus at Chromosome 1p36.** *American Journal of Human Genetics* 64:776-787.
 511. Gibbs M, Chakrabarti L, Stanford JL, Goode EL, Kolb S, Schuster EF, Buckley VA, Shook M, Hood L, Jarvik GP, Ostrander EA. (1999) **Analysis of Chromosome 1q42.2-43 in 152 Families with High Risk of Prostate Cancer.** *American Journal of Human Genetics* 64:1087- 1095.
 512. Lin B, Ferguson C, White JT, Wang S, Vessella R, True LD, Hood L, Nelson P. (1999) **Prostate-Localized and Androgen-Regulated Expression of the Membrane-Bound Serine Protease TMPRSS21 .** *Cancer Research* 59:4180-4184.
 513. McIndoe RA, Bohlman B, Chi E, Schuster E, Linhardt M, Hood L. (1999) **Localization of Non-Mhc Collagen-Induced Arthritis Susceptibility Loci in DBA/1j Mice.** *Proceedings of the National Academy of Sciences USA* 96:2210-2214.
 514. Deng Y, Madan A, Banta AB, Friedman C, Trask BJ, Hood L, Li L. (2000) **Characterization, Chromosomal Localization, and the Complete 30-kb DNA Sequence of the Human Jagged2 (JAG2) Gene.** *Genomics* 63:133-138.
 515. Goode EL, Stanford JJ, Chakrabarti L, Gibbs M, Kolb S, McIndoe RA, Buckley VA, Schuster EF, Neal CL, Miller EL, Brandzel S, Hood LE, Ostrander EA, Jarvik GP. (2000) **Linkage Analysis of 150 High-Risk Prostate Cancer Families at 1q24-25.** *Genetic Epidemiology* 18: 251-275.
 516. Brewster JL, Martin SL, Toms J, Goss D, Wang K, Zachrone K, Davis A, Carlson G, Hood L, Coffin JD. (2000) **Deletion of Dad1 in Mice Induces an Apoptosis-Associated Embryonic Death.** *Genesis* 26: 271-278.
 517. Baliga NS, Goo YA, Ng WV, Hood L, Daniels CJ, DasSarma S. (2000) **Is Gene Expression in Halobacterium NRC-1 Regulated by Multiple TBP and TFB Transcription Factors?** *Molecular Microbiology* 36:1184-1185.
 518. Allen EE, Hood L. (2000) **Biotechnology, Inquiry, and Public Education.** *Trends in Biotechnology* 18:329-330.
 519. Nelson PS, Han D, Rochon Y, Cothais GL, Lin B, Monson A, Nguyen V, Franza BR, Plymate SR, Aebersold R, Hood L. (2000) **Comprehensive Analyses of Prostate Gene Expression: Convergence of Expressed Sequence Tag Databases, Transcript Profiling and Proteomics.** *Electrophoresis* 21:1823-1831.
 520. Ng WV, Kennedy S, Mahairas GG, Berquist B, Pan M, Shukla HD, Lasky SR, Baliga N, Thorsson V, Sbrogna J, Swartzell S, Weir D, Hall J, Dahl TA, Welti R, Goo YA, Leithauser B, Keller K, Cruz R, Danson MJ, Hough DW, Maddocks DG, Jablonski PE, Krebs MP, Angevine CM, Dale H, Isenbarger TA, Peck RF, Pohlschroder M, Spudich JL, Jung K, Alam M, Freitas T, Hou S, Daniels CJ, Dennis PP, Omer AD, Ebhardt H, Lowe TM, Liang P, Riley M, Hood L, DasSarma S. (2000) **Genome Sequence of Halobacterium Species NRC-1.** *Proceedings of the National Academy of Sciences USA* 97:12176-12181.
 521. Cameron RA, Mahairas G, Rast JP, Martinez P, Biondi TR, Swartzell S, Wallace JC, Poustka AJ, Livingston BT, Wray GA, Etensohn CA, Lehrach H, Britten RJ, Davidson DH, Hood L. (2000) **A Sea Urchin Genome Project: Sequence Scan, Virtual Map, and Additional Resources.** *Proceedings of the National Academy of Sciences USA* 97:9514-9518.
 522. Siegel AF, van den Engh G, Hood L, Trask B, Roach JC. (2000) **Modeling the Feasibility of Whole Genome Shotgun Sequencing Using a Pairwise End Strategy.** *Genomics* 68:237-246.
 523. Rowen L, Wong GKS, Lane RP, Hood K. (2000) **Publication Rights in the Era of Open Data**

- Release Policies.** *Science* 289:1881.
524. Anderson JP, Rodrigo AG, Learn GH, Madan A, Delahunty C, Coon M, Girard M, Osmanov S, Hood L, Mullins JL. **(2000) Testing the Hypothesis of a Recombinant Origin of Human Immunodeficiency Virus Type 1 Subtype E.** *Journal of Virology* 74:10752-10765.
525. Ideker T, Thorsson V, Seigel AF, Hood L. **(2000) Testing for Differentially-Expressed Genes by Maximum-Likelihood Analysis of Microarray Data.** *Journal of Computational Biology* 7:805-817.
526. Lin B, White JT, Ferguson C, Bumgarner R, Friedman C, Trask B, Ellis W, Lange P, Hood L, Nelson PS. **(2000) PART-1: A Novel Human Prostate-Specific, Androgen-Regulated Gene that Maps to Chromosome 5q121.** *Cancer Research* 60:858-863.
527. Gibbs M, Stanford JL, Jarvik GP, Janer M, Badzioch M, Peters MA, Goode EL, Kolb S, Chakrabarti L, Shook M, Basom R, Ostrander EA, Hood L. **(2000) A Genomic Scan of Families with Prostate Cancer Identifies Multiple Regions of Interest.** *American Journal of Human Genetics* 67:100-109.
528. Chaudhary PM, Eby MT, Jasmin A, Kumar A, Liu L, Hood L. **(2000) Activation of the NF-kappaB Pathway by Caspase 8 and Its Homologs.** *Oncogene* 19:4451-4460.
529. Rampazzo A, Pivotto F, Occhi G, Tiso N, Bartoluzzi S, Rowen L, Hood L, Nava A, Daniele GA. **(2000) Characterization of C14orf4, a Novel Intronless Human Gene Containing a Polyglutamine Repeat, Mapped to the ARVD1 Critical Region.** *Biochemical and Biophysical Research Communications* 278:766-774.
530. Aebersold R, Hood LE, Watts JD. **(2000) Equipping scientists for the new biology.** *Nat Biotechnol.* Apr;18(4):359.
531. Bell E, Rowen L, Hood L. **(2000) Publication rights for sequence data producers.** *Science* Dec 1;290(5497):1696b-8b.
532. Dassarma S, Kennedy SP, Berquist B, Victor Ng W, Baliga NS, Spudich JL, Krebs MP, Eisen JA, Johnson CH, Hood L. **(2001) Genomic perspective on the photobiology of Halobacterium species NRC-1, a phototrophic, phototactic, and UV-tolerant haloarchaeon.** *Photosynth Res.*;70(1):3-17.
533. Peters MA, Jarvik GP, Janer M, Chakrabarti L, Kolb S, Goode EL, Gibbs M, DuBois CC, Schuster EF, Hood L, Ostrander EA, Stanford JL. **(2001) Genetic Linkage Analysis of Prostate Cancer Families to Xq27-28.** *Human Heredity* 51:107-113.
534. Baliga NS, Kennedy, Ng WV, Hood L, DasSarma S. **(2001) Genomic and Genetic Dissection of an Archaeal Regulon.** *Proceedings of the National Academy of Sciences USA* 98:2521-2525.
535. Lin B, White JT, Ferguson C, Wang S, Vessella R, Bumgarner R, True LD, Hood L, Nelson PS. **(2001) Prostate Short-Chain Dehydrogenase Reductase 1 (PSDR1): A New Member of the Short-Chain Steroid Dehydrogenase/Reductase Family Highly Expressed in Normal and Neoplastic Prostate Epithelium.** *Cancer Research* 61:1611-1618.
536. Lander ES, Linton LM, Birren B, Nusbaum C, Zody MC, Baldwin J, Devon K, Dewar K, Doyle M, FitzHugh W, Funke R, Gage D, Harris K, Heaford A, Howland J, Kann L, Lehoczky J, LeVine R, McEwan P, McKernan K, Meldrim J, Mesirov JP, Miranda C, Morris W, Naylor J, Raymond C, Rosetti M, Santos R, Sheridan A, Sougnez C, Stange-Thomann N, Stojanovic N, Subramanian A, Wyman D, Rogers J, Sulston J, Ainscough R, Beck S, Bentley D, Burton J, Clee C, Carter N, Coulson A, Deadman R, Deloukas P, Dunham A, Dunham I, Durbin R, French L, Grafham D, Gregory S, Hubbard T, Humphray S, Hunt A, Jones M, Lloyd C, McMurray A, Matthews L, Mercer S, Milne S, Mullikin JC, Mungall A, Plumb R, Ross M, Shownkeen R, Sims S, Waterston RH, Wilson RK, Hillier LW, McPherson JD, Marra MA, Mardis ER, Fulton LA, Chinwalla AT, Pepin KH, Gish WR, Chissoe SL, Wendl MC, Delehaunty KD, Miner TL, Delehaunty A, Kramer JB, Cook LL, Fulton RS, Johnson DL, Minx PJ, Clifton SW, Hawkins T, Branscomb E, Predki P, Richardson P, Wenning S, Slezak T, Doggett N, Cheng JF, Olsen A, Lucas S, Elkin C, Uberbacher E, Frazier M, Gibbs RA, Muzny DM, Scherer SE, Bouck JB, Sodergren EJ, Worley KC, Rives CM, Gorrell JH, Metzker ML, Naylor SL, Kucherlapati RS, Nelson DL, Weinstock GM, Sakaki Y, Fujiiyama A, Hattori M, Yada T, Toyoda A, Itoh T, Kawagoe C, Watanabe H, Totoki Y, Taylor T, Weissenbach J, Heilig R, Saurin W, Artiguenave F, Brottier P, Bruls T, Pelletier E,

- Robert C, Wincker P, Smith DR, Doucette-Stamm L, Rubenfield M, Weinstock K, Lee HM, Dubois J, Rosenthal A, Platzer M, Nyakatura G, Taudien S, Rump A, Yang H, Yu J, Wang J, Huang G, Gu J, Hood L, Rowen L, Madan A, Qin S, et al. International Human Genome Sequencing Consortium. **(2001) Initial Sequencing and Analysis of the Human Genome.** *Nature* 409:860-921.
537. Bruls T, Gyapay G, Petit JL, Artiguenave F, Vico V, Qin S, Tin-Wollam AM, Da Silva C, Muselet D, Mavel D, Pelletier E, Levy M, Fujiyama A, Matsuda F, Wilson R, Rowen L, Hood L, Weissenbach J, Saurin W, Hellig R. **(2001) A Physical Map of Human Chromosome 14.** *Nature* 409:947-948.
538. Ideker T, Thorsson V, Ranish JA, Christmas R, Buhler J, Eng JK, Bumgarner R, Goodlett DR, Aebersold R, Hood L. **(2001) Integrated Genomic and Proteomic Analyses of a Systematically Perturbed Metabolic Network.** *Science* 292:929-933. PMID:11340206
539. Meyer AL, Benson J, Song F, Gienapp IE, Javed N, Goverman J, Brabb TA, Hood L, Whitacre CC. **(2001) Rapid Depletion of Peripheral Antigen-Specific T Cells in TCR Transgenic Mice Following Oral Administration of Myelin Basic Protein.** *Journal of Immunology* 166:5773-5782.
540. Lane RP, Cutforth T, Young J, Athanasiou M, Friedman C, Rowen L, Evans G, Axel R, Hood L, Trask BJ. **(2001) Genomic Analysis of Orthologous Mouse and Human Olfactory Receptor Loci.** *Proceedings of the National Academy of Sciences USA* 98:7390-7395.
541. Wang K, Gan L, Kunisada T, Lee I, Yamagishi H, Hood L. **(2001) Characterization of the Japanese Pufferfish (Takifugu Rubripes) T-Cell Receptor Alpha Locus Reveals a Unique Genomic Organization.** *Immunogenetics* 53:31-42.
542. **Integrated genomic and proteomic analyses of a systematically perturbed metabolic network.** T, Galitski T, Hood L. **(2001) A New Approach to Decoding Life: Systems Biology.** *Annual Review of Genomics and Human Genetics* 2:343-372.
543. Glusman, G., L. Rowen, I. Lee, C. Boysen, J.C. Roach, A.F.A. Smit, K. Wang, B.F. Koop and L. Hood. **(2001) Review: Comparative Genomics of the Human and Mouse T-Cell Receptor Loci.** *Immunity* 15:337-349.
544. Kennedy SP, Ng WV, Salzberg SL, Hood L, DasSarma S. **(2001) Understanding the Adaptation of Halobacterium Species NRC-1 to Its Extreme Environment through Computational Analysis of Its Genome Sequence.** *Genome Research* 11:1641-1650.
545. Moore RC, Mastrangelo P, Bouzamondo E, Heinrich C, Legname G, Prusiner SB, Hood L, Westaway D, DeArmond SJ, Tremblay P. **(2001) Doppel-Induced Cerebellar Degeneration in Transgenic Mice.** *Proceedings of the National Academy of Sciences USA* 98:15288-15293.
546. Anderson JP, Rodrigo AG, Learn GH, Wang Y, Weinstock H, Kalish ML, Robbins KE, Hood L, Mullins JI. **(2001) Substitution Model of Sequence Evolution for the Human Immunodeficiency Virus Type 1 Subtype B gp120 Gene over the C2-V5 Region.** *Molecular Evolution* 53:55-62.
547. Peck RF, Echavarri-Erasun C, Johnson EA, Ng WV, Kennedy SP, Hood L, DasSarma S, Krebs MP. **(2001) brp and blh are Required for Synthesis of the Retinal Cofactor of Bacteriorhodopsin in Halobacterium salinarum.** *Journal of Biological Chemistry* 276:5739-5744.
548. Chen F, Rowen L, Hood L, Rothenberg EV. **(2001) Differential Transcriptional Regulation of Individual T Cell Receptor V- Segments Before Gene Rearrangement.** *Journal of Immunology* 166:1771-1780.
549. Terskikh AV, Easterday MC, Li L, Hood L, Kornblum HI, Geschwind DH, Weissman IL. **(2001) From Hematopoiesis to Neurogenesis: Evidence of Overlapping Genetic Programs.** *Proceedings of the National Academy of Sciences USA* 98:7934-7939.
550. Park IK, Klug CA, Li K, Jerabek L, Li L, Nanamori M, Neubig RR, Hood L, Weissman IL, Clarke MF. **(2001) Molecular Cloning and Characterization of a Novel Regulator of G-Protein Signaling from Mouse Hematopoietic Stem Cells.** *The Journal of Biological Chemistry* 276:915-923.
551. Goode EL, Stanford JL, Peters MA, Janer M, Gibbs M, Kolb S, Badzioch MD, Hood L, Ostrander E, Jarvik G. **(2001) Clinical Characteristics of Prostate Cancer in an Analysis of Linkage to**

- Four Putative Susceptibility Loci.** *Clinical Cancer Research* 48:292-296.
552. McPherson JD, Marra M, Hillier L, Waterston RH, Chinwalla A, Wallis J, Sekhon M, Wylie K, Mardis ER, Wilson RK, Fulton R, Kucaba TA, Wagner-McPherson C, Barbazuk WB, Gregory SG, Humphray SJ, French L, Evans RS, Bethel G, Whittaker A, Holden JL, McCann OT, Dunham A, Soderlund C, Scott CE, Bentley DR, Schuler G, Chen HC, Jang W, Green ED, Idol JR, Maduro VV, Montgomery KT, Lee E, Miller A, Emerling S, Kucherlapati, Gibbs R, Scherer S, Gorrell JH, Sodergren E, Clerc-Blankenburg K, Tabor P, Naylor S, Garcia D, de Jong PJ, Catanese JJ, Nowak N, Osoegawa K, Qin S, Rowen L, Madan A, Dors M, Hood L, Trask B, Friedman C, Massa H, Cheung VG, Kirsch IR, Reid T, Yonescu R, Weissenbach J, Bruls T, Heilig R, Branscomb E, Olsen A, Doggett N, Cheng JF, Hawkins T, Myers RM, Shang J, Ramirez L, Schmutz J, Velasquez O, Dixon K, Stone NE, Cox DR, Haussler D, Kent WJ, Furey T, Rogic S, Kennedy S, Jones S, Rosenthal A, Wen G, Schilhabel M, Gloeckner G, Nyakatura G, Siebert R, Schlegelberger B, Korenberg J, Chen XN, Fujiyama A, Hattori M, Toyoda A, Yada T, Park HS, Sakaki Y, Shimizu N, Asakawa S, Kawasaki K, Sasaki T, Shintani A, Shimizu A, Shibuya K, Kudoh J, Minoshima S, Ramser J, Seranski P, Hoff C, Poustka A, Reinhardt R, Lehrach H; International Human Genome Mapping Consortium. **(2001) A physical map of the human genome.** *Nature* Feb 15;409(6822):934-41.
553. Korf I, Kulp D, Lancet D, Lowe TM, McLysaght A, Mikkelsen T, Moran JV, Mulder N, Pollara VJ, Ponting CP, Schuler G, Schultz J, Slater G, Smit AF, Stupka E, Szustakowski J, Thierry-Mieg D, Thierry-Mieg J, Wagner L, Wallis J, Wheeler R, Williams A, Wolf YI, Wolfe KH, Yang SP, Yeh RF, Collins F, Guyer MS, Peterson J, Felsenfeld A, Wetterstrand KA, Patrinos A, Morgan MJ, de Jong P, Catanese JJ, Osoegawa K, Shizuya H, Choi S, Chen YJ; International Human Genome Sequencing Consortium. **(2001) Initial sequencing and analysis of the human genome.** *Nature* Feb 15;409(6822):860-921. *Nature* Jun 7;411(6838):720.
554. Aderem A, Hood L. **(2001) Immunology in the post-genomic era.** *Nature Immunology* May;2(5):373-5.
555. Hood L. **(2001) Computing life: the challenge ahead.** *IEEE Eng Med Biol Magazine* Jul- Aug; 20(4):20.
556. Park IK, He Y, Lin F, Laerum OD, Tian Q, Bumgarner R, Klug CA, Li K, Kuhr C, Doyle MJ, Xie T, Schummer M, Sun Y, Goldsmith A, Clarke MF, Weissman IL, Hood L, Li L. **(2002) Differential Gene Expression Profiling of Adult Murine Hematopoietic Stem Cells.** *Blood* 99:488-498.
557. Lane RP, Cutforth T, Axel R, Hood L, Trask BJ. **(2002) Sequence Analysis of Mouse Vomeronasal Receptor Gene Clusters Reveals Common Promoter Motifs and a History of Recent Expansion.** *Proceedings of the National Academy of Sciences USA* 99:291-296.
558. Lane RP, Roach JC, Lee IY, Boysen C, Smit A, Trask BJ, Hood L. **(2002) Genomic Analysis of the Olfactory Receptor Region of the Mouse and Human T-Cell Receptor α/δ Loci.** *Genome Research* 12:81-87.
559. Davidson EH, Rast JP, Oliveri P, Ransick A, Calestani C, Yuh CH, Minokawa T, Amore G, Hinman V, Arenas-Mena C, Otim O, Brown CT, Livi CB, Lee PY, Revilla R, Rust AG, Pan ZJ, Schilstra MJ, Clarke PJC, Arnone MI, Rowen L, Cameron RA, McClay DR, Hood L, Bolouri H. **(2002) A Genomic Regulatory Network for Development.** *Science* 295: 1669-1678.
560. Leong KG, Hu X, Li L, Nosedá M, Larrivee B, Hull C, Hood L, Wong F, Karsan A. **(2002) Activated Notch4 Inhibits Angiogenesis: Role of 1-Integrin Activation.** *Molecular and Cellular Biology* 22:2830-2841.
561. Griffin TJ, Gygi SP, Ideker T, Rist B, Eng J, Hood L, Aebersold R. **(2002) Complementary Profiling of Gene Expression at the Transcriptome and Proteome Levels in *Saccharomyces cerevisiae*.** *Molecular and Cellular Proteomics* 1.4: 323-333.
562. Rowen L, Young J, Birditt B, Kaur A, Madan A, Philipps DL, Qin S, Minx P, Wilson RK, Hood L, Graveley BR. **(2002) Analysis of the Human Neurexin Genes: Alternative Splicing and the Generation of Protein Diversity.** *Genomics* 79:587-597.
563. Graham J, Hagopian WA, Kockum I, Li LS, Sanjeevi CB, Lowe RM, Schaefer JB, Zarghami M, Day HL, Landin-Olsson M, Palmer JP, Janer-Villanueva M, Hood L, Sundkvist G, Lernmark Å, Breslow N, Dahlquist G, Blohmé Diabetes Incidence in Sweden Study Group; Swedish Childhood Diabetes Study Group. **(2002) Genetic Effects on Age-Dependent Onset and Islet Cell**

- Autoantibody Markers in Type 1 Diabetes.** *Diabetes* 51:1346-1355.
564. Aparicio S, Chapman J, Stipka E, Putnam N, Chia J, Dehal P, Christoffels A, Rash S, Hoon S, Smit A, Sollewijn Gelpke MD, Roach J, Oh T, Ho IY, Wong M, Detter C, Verhoef F, Predki P, Tay A, Lucas S, Richardson P, Smith SF, Clark MS, Edwards YJK, Doggett N, Zharkikh A, Tavtigian SV, Pruss D, Barnstead M, Evans C, Baden H, Powell J, Glusman G, Rowen L, Hood L, Tan YH, Elgar G, Hawkins T, Venkatesh B, Rokhsar D, Brenner S. **(2002) Whole-Genome Shotgun Assembly and Analysis of the Genome of *Fugu rubripes*.** *Science* 297:1301-1310.
565. Gjertsen BT, Øyan AM, Marzolf B, Hovland R, Gausdal G, Døskeland SO, Dimitrov K, Golden A, Kalland KH, Hood L, Bruserud Ø. **(2002) Analysis of Acute Myelogenous Leukemia: Preparation of Samples for Genomic and Proteomic Analysis.** *Journal of Hematotherapy & Stem Cell Research* 11:469-481.
566. Hood L. **(2002) A Personal View of Molecular Technology and How It Has Changed Biology.** *Journal of Proteome Research* 1:399-409.
567. Kumánovics A, Madan A, Qin S, Rowen L, Hood L, Fischer Lindahl K. **(2002) Quod erat faciendum: Sequence Analysis of the H2-D and H2-Q Regions of 129/SvJ Mice.** *Immunogenetics* 54:479-489.
568. Davidson EH, Rast JP, Oliveri P, Ransick A, Calestani C, Yuh CH, Minokawa T, Amore G, Hinman V, Arenas-Mena C, Otim O, Brown CT, Livi CB, Lee PY, Revilla R, Schilstra MJ, Clarke PJC, Rust AG, Pan Z, Arnone MI, Rowen L, Cameron RA, McClay DR, Hood L, Bolouri. **(2002) A Provisional Regulatory Gene Network for Specification of Endomesoderm in the Sea Urchin Embryo.** *Developmental Biology* 246:162-190.
569. Guo Z, Gatterman MS, Hood L, Hansen JA, Petersdorf EW. **(2002) Oligonucleotide Arrays for High-Throughput SNPs Detection in the MHC Class I Genes: HLA-B as a Model System.** *Genome Research* 12:447-457.
570. Liu AY, Nelson PS, van den Engh PS, Hood L. **(2002) Human Prostate Epithelial Cell-Type cDNA Libraries and Prostate Expression Patterns.** *The Prostate* 50:92-103.
571. Baliga NS, Pan M, Goo YA, Yi EC, Goodlett DR, Dimitrov K, Shannon P, Aebersold R, Ng WY, Hood L. **(2002) Coordinate Regulation of Energy Transduction Modules in *Halobacterium* sp. Analyzed by a Global Systems Approach.** *Proceedings of the National Academy of Sciences USA* 99:14913-14918.
572. Nelson PS, Clegg N, Arnold H, Ferguson C, Bonham M, White J, Hood L, Lin B. **(2002) The program of androgen-responsive genes in neoplastic prostate epithelium.** *Proc Natl Acad Sci USA* Sep 3;99(18):11890-5.
573. Hood L. **(2002) Systems Biology: Integrating Technology, Biology, and Computation.** *Mechanisms of Aging and Development* 124:9-16574.
574. Hood, L. **(2002) My Life and Adventures Integrating Biology and Technology. A Commemorative Lecture for the 2002 Kyoto Prize in Advanced Technologies.** *2002 Kyoto Prizes and Inamori Grants* 111-165
575. Hood L, Galas DJ. **(2003) The Digital Code of DNA.** *Nature* 421:444-448.
576. Davidson EH, McClay DR, Hood L. **(2003) Regulatory Gene Networks and the Properties of the Developmental Process.** *Proceedings of the National Academy of Sciences USA* 100:1475-1480.
577. Utleg AG, Yi EC, Xie T, Shannon P, White JT, Goodlett DR, Hood L, Lin B. **(2003) Proteomic Analysis of Human Prostatomes.** *The Prostate* 56:150-161.
578. Heilig R, Eckenberg R, Petit JL, Fonknechten N, Da Silva C, Cattolico L, Levy M, Barbe V, de Berardinis V, Ureta-Vidal A, Pelletier E, Vico V, Anthouard V, Rowen L, Madan A, Qin S, Sun H, Du H, Pepin K, Artiguenave F, Robert C, Cruaud C, Brüls T, Jaillon O, Friedlander L, Samson G, Brottier P, Cure S, Segurens B, Anière F, Samain S, Crespeau H, Abbasi N, Aiach N, Boscus D, Dickhoff R, Dors M, Dubols I, Friedman C, Gouyvenoux M, James R, Madan A, Mairey-Estrada B, Mangenot S, Martins N, Menard M, Oztas S, Ratcliffe A, Shaffer T, Trask B, Vacherie B, Bellemere C, Belser C, Besnard-Gonnet M, Bartol-Mavel D, Boutard M, Briez-Silla S, Combette S, Dufossé-Laurent V, Ferron C, Lechaplais C, Louesse C, Muselet D, Magdelenat G, Pateau E, Petit E, Sirvain-Trukniewicz P, Trybou A, Vega-Czarny N, Bataille E, Bluet E, Bordelais I, Dubois M, Dumont C, Guérin T, Haffray S, Hammadi R, Muanga J, Pellouin V, Robert D, Wunderle E,

- Gauguet G, Roy A, Sainte-Marthe L, Verdier J, Verdier-Discalla C, Hillier L, Fulton L, McPherson J, Matsuda F, Wilson R, Scarpelli C, Gyapay G, Wincker P, Saurin W, Quétier F, Waterston R, Hood L, Weissenbach J. (2003) **The DNA Sequence and Analysis of Human Chromosome 14.** *Nature* 421:601-607.
579. Anderson JP, Learn GH, Rodrigo AG, He X, Wang Y, Weinstock H, Kalish ML, Robbins KE, Hood L, Mullins J. (2003) **Predicting Demographic Group Structures Based on DNA Sequence Data.** *Molecular Biology and Evolution* 20:1168-1180.
580. Xie T, Hood L. (2003) **ACGT – A Comparative Genomics Tool.** *Bioinformatics* 19:1039-1040.
581. Lin B, White JT, Utleg AG, Wang S, Ferguson C, True LD, Vessella R, Hood L, Nelson PS. (2003) **Isolation and Characterization of Human and Mouse WDR19, A Novel WD-Repeat Protein Exhibiting Androgen-Regulated Expression in Prostate Epithelium.** *Genomics* 82:331-342.
582. Kolker E, Purvine S, Galperin MY, Stolyar S, Goodlett DR, Nesvizhskii AI, Keller A, Xie T, Eng KL, Yi E, Hood L, Picone AF, Cherny T, Tjaden BC, Siegel AF, Reilly TJ, Makarova KS, Palsson BO, Smith AL. (2003) **Initial Proteome Analysis of Model Microorganism *Haemophilus influenzae* Strain Rd KW20.** *Journal of Bacteriology* 185:4593-4602.
583. Xie T, Rowen L, Aguado B, Ahearn ME, Madan A, Qin S, Campbell RD, Hood L. (2004) **Analysis of the Gene-Dense Major Histocompatibility Complex Class III Region and Its Comparison to Mouse.** *Genome Research* 13:2621-2636.
584. Goo YA, Roach J, Glusman G, Baliga NS, Deutsch K, Pan M, Kennedy S, DasSarma S, V Ng W; Hood L. (2004) **Low-Pass Sequencing for Microbial Comparative Genomics.** *BioMed Central Genomics* 5:3.
585. Auffray C, Sandrine I, Roux-Rouquié M, Hood L. (2003) **Self-Organized Living Systems: Conjunction of a Stable Organization with Chaotic Fluctuations in Biological Space-Time.** *Philosophical Transactions of the Royal Society of London* 361:1125-1139.
586. Auffray C, Imbeaud S, Roux-Rouquié M, Hood L. (2003) **From Functional Genomics to Systems Biology: Concepts and Practices.** *Comptes Rendus Biologies* 326:879-892.
587. Auffray C, Chen Z, Hood L, Soares B, Sugano S. (2003) **Foreword: From the Transcriptome Conferences to the Systemscope International Consortium.** *Comptes Rendus Biologies* 326:867-875.
588. Conlon EM, Goode EL, Gibbs M, Standford JL, Badzioch M, Janer M, Kolb S, Hood L, Ostrander EA, Jarvik GP, Wijisman EM. (2003) **Oligogenic Segregation Analysis of Hereditary Prostate Cancer Pedigrees: Evidence for Multiple Loci Affecting Age at Onset.** *International Journal of Cancer* 105:630-635.
589. Janer M, Friedrichsen DM, Stanford JL, Badzioch MD, Kolb S, Deutsch K, Peters MA, Goode EL, Welti R, DeFrance HB, Iwasaki L, Li S, Hood L, Ostrander EA, Jarvik GP. (2003) **Genomic Scan of 254 Hereditary Prostate Cancer Families.** *The Prostate* 57:309-319.
590. Goo YA, Yi EC, Baliga NS, Tao WA, Pan M, Aebersold R, Goodlett DR, Hood L, Ng WV. (2003) **Proteomic Analysis of an Extreme Halophilic Archaeon, *Halobacterium* sp. NRC-1.** *Molecular and Cellular Proteomics* 2.8, 506-524.
591. Lin F, Cordes K, Li L, Hood L, Couser W, Shankland S, Igarashi P. (2003) **Hematopoietic Stem Cells Contribute to the Regeneration of Renal Tubules after Renal Ischemia-Reperfusion Injury in Mice.** *Journal of the American Society of Nephrology* 14:1188-1199.
592. Weston AD, Baliga MS, Bonneau R, Hood L. (2003) **Systems Approaches Applied to the Study of *Saccharomyces cerevisiae* and *Halobacterium* sp.** *The Genome of Homo Sapiens, Volume LXVIII, Symposia on Quantitative Biology.* Cold Spring Harbor Press 345-357.
593. Hood L. (2003) **Leroy Hood expounds the principles, practice and future of systems biology.** *Drug Discov Today* May 15;8(10):436-8.
594. Friedrichsen DM, Stanford JL, Isaacs SD, Janer M, Chang BL, Deutsch K, Gillanders E, Kolb S, Wiley KE, Badzioch MD, Zheng SL, Walsh PC, Jarvik GP, Hood L, Trent JM, Isaacs WB, Ostrander EA, Xu K. (2004) **Identification of a Prostate Cancer Susceptibility Locus on Chromosome 7q11-21 in Jewish Families.** *Proceedings of the National Academies of Sciences USA* 101:1939-1944.
595. Weston AD, Hood L. (2004) **Systems Biology, Proteomics, and the Future of Health Care:**

- Toward Predictive, Preventative, and Personalized Medicine.** *Journal of Proteome Research* 3:179-196.
596. Liu AY, Brubaker KD, Goo YA, Quinn JE, Kral S, Sorensen CM, Vessella RL, Beldegrun AS, Hood LE. **(2004) Lineage Relationship Between LNCaP and LNCaP-Derived Prostate Cancer Cell Lines.** *The Prostate* 60:98-108.
597. Tian Q, Stepaniants SB, Mao M, Weng L, Feetham MC, Doyle MJ, Yi EC, Dai H, Thorsson V, Eng J, Goodlett G, Berger JP, Gunter B, Linseley PS, Stoughton RB, Aebersold R, Collins SJ, Hanlon WA, Hood LE. **(2004) Integrated Genomic and Proteomic Analyses of Gene Expression in Mammalian Cells.** *Molecular & Cellular Proteomics* 3.10:961-969.
598. Lausted C, Dahl T, Warren C, King K, Smith K, Johnson M, Saleem R, Hood L, Lasky SR. **(2004) A Fast, Flexible, Open Source, Ink-Jet Oligonucleotide Synthesizer and Microarrayer.** *Genome Biology* 5:R58.
599. Bonneau R, Baliga NS, Deutsch EW, Shannon P, Hood L. **(2004) Comprehensive De Novo Structure Prediction in a Systems-Biology Context for the Archaea Halobacterium sp. NRC-1.** *Genome Biology* 5:R52.
600. Baliga NS, Bjork SJ, Bonneau R, Pan M, Iloanusi C, Kottemann MC, Hood L, DiRuggiero J. **(2004) Systems Level Insights Into the Stress Response to UV Radiation in the Halophilic Archaeon Halobacterium NRC-1.** *Genome Research* 14:1025-1035.
601. Hood L, Heath JR, Phelps ME, Lin B. **(2004) Systems Biology and New Technologies Enable Predictive and Preventative Medicine.** *Science* 306:640-643.
602. Facciotti MT, Bonneau R, Hood L, Baliga NS. **(2004) Systems Biology Experimental Design—Considerations for Building Predictive Gene Regulatory Network Models for Prokaryotic Systems.** *Current Genomics* 5:527-544.
603. Lander ES, Linton LM, Birren B, Nusbaum C, Zody MC, Baldwin J, Devon K, Dewar K, Doyle M, FitzHugh W, Funke R, Gage D, Harris K, Heaford A, Howland J, Kann L, Lehoczky J, LeVine R, McEwan P, McKernan K, Meldrim J, Mesirov JP, Miranda C, Morris W, Naylor J, Raymond C, Rosetti M, Santos R, Sheridan A, Sougnez C, Stange-Thomann N, Stojanovic N, Subramanian A, Wyman D, Rogers J, Sulston J, Ainscough R, Beck S, Bentley D, Burton J, Clee C, Carter N, Coulson A, Deadman R, Deloukas P, Dunham A, Dunham I, Durbin R, French L, Grafham D, Gregory S, Hubbard T, Humphray S, Hunt A, Jones M, Lloyd C, McMurray A, Matthews L, Mercer S, Milne S, Mullikin JC, Mungall A, Plumb R, Ross M, Shownkeen R, Sims S, Waterston RH, Wilson RK, Hillier LW, McPherson JD, Marra MA, Mardis ER, Fulton LA, Chinwalla AT, Pepin KH, Gish WR, Chissoe SL, Wendl MC, Delehaunty KD, Miner TL, Delehaunty A, Kramer JB, Cook LL, Fulton RS, Johnson DL, Minx PJ, Clifton SW, Hawkins T, Branscomb E, Predki P, Richardson P, Wenning S, Slezak T, Doggett N, Cheng JF, Olsen A, Lucas S, Elkin C, Uberbacher E, Frazier M, Gibbs RA, Muzny DM, Scherer SE, Bouck JB, Sodergren EJ, Worley KC, Rives CM, Gorrell JH, Metzker ML, Naylor SL, Kucherlapati RS, Nelson DL, Weinstock GM, Sakaki Y, Fujiiyama A, Hattori M, Yada T, Toyoda A, Itoh T, Kawagoe C, Watanabe H, Totoki Y, Taylor T, Weissenbach J, Heilig R, Saurin W, Artiguenave F, Brottier P, Bruls T, Pelletier E, Robert C, Wincker P, Smith DR, Doucette-Stamm L, Rubenfield M, Weinstock K, Lee HM, Dubois J, Rosenthal A, Platzer M, Nyakatura G, Taudien S, Rump A, Yang H, Yu J, Wang J, Huang G, Gu J, Hood L, Rowen L, Madan A, Qin S, et al. International Human Genome Sequencing Consortium **(2004) Finishing the Euchromatic Sequence of the Human Genome** *Nature* 431:931-945.
604. Zhu XM, Yin L, Hood L, Ao P **(2004) Calculating Biological Behaviors of Epigenetic States in the Phage Lambda Life Cycle.** *Functional & Integrative Genomics* 4:188-195.
605. Baliga NS, Bonneau R, Facciotti MT, Pan M, Glusman G, Deutsch EW, Shannon P, Chiu Y, Weng RS, Gan RR, Hung P, Date SV, Marcotte E, Hood L, Ng WV **(2004) Genome Sequence of Haloarcula Marismortui—A Halophilic Archaeon from the Dead Sea.** *Genome Research* 14:2221-2234.
606. Glusman G, Kaur A, Hood L, Rowen L. **(2004) An Enigmatic Fourth Runt Domain Gene in the Fugu Genome: Ancestral Gene Loss Versus Accelerated Evolution.** *BMC Evolutionary Biology* 4.
607. Tian Q, Feetham MC, Tao WA, He XC, Li L, Aebersold R, Hood L. **(2004) Proteomic Analysis**

- Identifies that 14-3-3- Interacts with -Catenin and Facilitates its Activation by Akt.** *Proceedings of the National Academy of Sciences USA* 101:15370-15375.
608. Desiere F, Deutsch EW, Nesvizhskii AI, Mallick P, King NL, Eng JK, Aderem A, Boyle R, Brunner E, Donohoe S, Fausto N, Hafen E, Hood L, Katze MG, Kennedy KA, Kregenow F, Lee H, Lin B, Martin D, Ranish JA, Rawlings DJ, Samelson LE, Shio Y, Watts JD, Wollscheid B, Wright ME, Yan W, Yang L, Yi EC, Zhang H, Aebersold R. **(2004) Integration with the Human Genome of Peptide Sequences Obtained by High-Throughput Mass Spectrometry.** *GenomeBiology* 6:R9.
609. Hood L, Perlmutter RM. **(2004) The impact of systems approaches on biological problems in drug discovery.** *Nat Biotechnol.* Oct: 22(10):1215-7.
610. Zhu XM, Yin L, Hood L, Ao P. **(2004) Robustness, Stability and Efficiency of Phage Genetic Switch: Dynamical Structure Analysis.** *Journal of Bioinformatics and Computational Biology* 2:785-817.
611. Bunimovich YL, Ge G, Beverly KC, Ries RS, Hood L, Heath JR. **(2004) Electrochemically Programmed, Spatially Selective Biofunctionalization of the Silicon Wires.** *Langmuir* 20:10630-10638.
612. Tian Q, He XC, Hood L, Li L. **(2005) Bridging the BMP and Wnt Pathways by P13 Kinase/Akt and 14-3-3zeta.** *Cell Cycle* 4.
613. Roach JC, Glusman G, Rowen L, Kaur A, Purcell MK, Smith KD, Hood LE, Aderem A. **(2005) The Evolution of Vertebrate Toll-like Receptors.** *Proceedings of the National Academy of Sciences USA* 102:9577-9582.
614. Xu J, Dimitrov L, Chang BL, Adams TS, Turner AR, Meyers DA; Eeles RA, Easton DF, Foulkes WD, Simard J, Giles GG, Hopper JL, Mahle L, Moller P, Bishop T, Evans C, Edwards S, Meitz J, Bullock S, Hope Q; Hsieh CL, Halpern J, Balise RN, Oakley-Girvan I, Whitemore AS; Ewing CM, Gielzak M, Isaacs SD, Walsh PC, Wiley KE, Isaacs WB; Thibodeau SN, McDonnell SK, Cunningham JM, Zarfes KE, Hebring S, Schaid DJ; Friedrichsen DM, Deutsch K, Kolb S, Badzioch M, Jarvik GP, Janer M, Hood L, Ostrander EA, Stanford JL; Lange EM, Beebe-Dimmer JL, Mohai CE, Cooney KA; Ikonen T, Baffoe-Bonnie A, Fredriksson H, Matikainen MP, Tammela TLJ, Bailey-Wilson J, Schleutker J; Maier C, Herkommer K, Hoegel J, Vogel W, Paiss T; Wiklund F, Emanuelsson M, Stenman E, Jonsson BA, Grönberg H; Camp MK, Farnham J, Cannon-Albright LA; Seminara D, ACTANE Consortium. **(2005) A Combined Genomewide Linkage Scan of 1,233 Families for Prostate Cancer-Susceptibility Genes Conducted by the International Consortium for Prostate Cancer Genetics.** *The American Journal of Human Genetics* 77:219-229.
615. Rowen L, Williams E, Glusman G, Linardopoulou E, Friedman C, Ahearn ME, Seto J, Boysen C, Qin S, Wang K, Kaur A, Bloom S, Hood L, Trask BJ. **(2005) Interchromosomal Segmental Duplications Explain the Unusual Structure of PRSS3, the Gene for an Inhibitor-Resistant Trypsinogen.** *Molecular Biol Evolution* 22:1712-1720.
616. Tao WA, Wollscheid B, O'Brien R, Eng JK, Li X-J, Bodenmiller B, Watts JD, Hood L, Aebersold R. **(2005) Quantitative Phosphoproteome Analysis Using a Dendrimer Conjugation Chemistry and Tandem Mass Spectrometry.** *Nature Methods* 2:591-598.
617. Thorsson V, Hörnquist M, Siegel AF, Hood L. **(2005) Reverse Engineering Galactose Regulation in Yeast through Model Selection.** *Statistical Applications in Genetics and Molecular Biology* 4, No. 1, Article 28.
618. Park H, Li Z, Yang XO, Chang SH, Nurieva R, Wang Y-H, Wang Y, Hood L, Zhu Z, Tian Q, Dong C. **(2005) A Distinct Lineage of CD4 T Cells Regulates Tissue Inflammation by Producing Interleukin-17.** *Nature Immunology.* Nov 6(11):1133-41.
619. Hwang D, Smith JJ, Leslie DM, Weston AD, Rust AG, Ramsey S, de Atauri P, Siegel AF, Bolouri H, Aitchison JD, Hood L. **(2005) A Data Integration Methodology for Systems Biology: Experimental Verification.** *Proceedings of the National Academy of Sciences* 102:17302-17307.
620. Hwang D, Rust AG, Ramsey S, Smith JJ, Leslie DM, Weston AD, de Atauri P, Aitchison JD, Hood L, Siegel AF, Bolouri H. **(2005) A Data Integration Methodology for Systems Biology.** *Proceedings of the National Academy of Sciences USA* 102:17296-17301.

621. Halvorsen OJ, Oyan AM, Bo TH, Olsen S, Rostad K, Haukaas SA, Bakke AM, Marzolf B, Dimitrov L, Stordrange L, Lin G, Jonassen I, Hood L, Akslen LA, Kalland K-H. **(2005) Gene Expression Profiles in Prostate Cancer: Association with Patient Subgroups and Tumor Differentiation.** *International Journal of Oncology* 26:329-36.
622. Lin B, White JT, Lu W, Xie T, Utleg AG, Yan X, Yi EC, Shannon P, Khrebtukova I, Lange PH, Goodlett DR, Zhou D, Asicek TJ, Hood L. **(2005) Evidence for the presence of disease-perturbed networks in prostate cancer cells by genomic and proteomic analyses: a systems approach to disease.** *Cancer Res.* 65(8): 3081-91.
623. Stanford J, McDonnell S, Carlson E, Kolb S, Deutsch K, Janer M, Hood L, Ostrander E, Schaid D. **(2005) Prostate Cancer and Genetic Susceptibility: A Genome Scan Incorporating Disease Aggressiveness.** *The Prostate* 66(3):317-325
624. Lausted CG, Warren CB, Hood LE, Lasky SR. **(2006) Printing Your Own Inkjet Microarrays.** *Methods in Enzymology* 410:168-89.
625. Cameron RA, Rowen L, Nesbitt R, Bloom S, Rast JP, Berney K, Arenas-Mena C, Martinez P, Lucas S, Richardson PM, Davidson EH, Peterson KJ, Hood L. **(2006) Unusual Gene Order and Organization of the Sea Urchin Hox Cluster.** *Experimental Zoology* 306B(1).
626. Guo Z, Hood L, Malkki M, Petersdorf EW. **(2006) Long-Range Multi-Locus Haplotype Phasing of the MHC.** *Proceedings of the National Academies of Science USA* 103(18):6964-6969.
627. True L, Coleman I, Hawley S, Huang A, Gifford D, Coleman R, Beer TM, Gelmann E, Datta M, Mostaghel E, Knudsen B, Lange P, Vessella R, Lin D, Hood L, Nelson PS. **(2006) A Molecular Correlate to the Gleason Grading System for Prostate Adenocarcinoma.** *Proceedings of the National Academies of Sciences USA* 103(29):10991-10996.
628. Stewart JJ, White JT, Yan X, Collins S, Drescher CW, Urban ND, Hood L, Lin B. **(2006) Proteins Associated with Cisplatin Resistance in Ovarian Cancer Cells Identified by Quantitative Proteomic Technology and Integrated with mRNA Expression Levels.** *Molecular & Cellular Proteomics* 5:433-443.
629. Bonneau R, Reiss DJ, Shannon P, Facciotti M, Hood L, Baliga NS, Thorsson V. **(2006) The Inferelator: An Algorithm for Learning Parsimonious Regulatory Networks from Systems-Biology Data Sets de novo.** *Genome Biology* 7:R36.
630. Foltz G, Ryu GY, Yoon JG, Nelson T, Fahey J, Frakes A, Lee H, Field L, Zander K, Sibenaller Z, Ryken TC, Vibhakar R, Hood L, Madan A. **(2006) Genome-Wide Analysis of Epigenetic Silencing Identifies BEX1 and BEX2 as Candidate Tumor Suppressor Genes in Malignant Glioma.** *Cancer Research* 66:1-10.
631. Zody MC, Garger M, Sharpe T, Young SK, Rowen L, O'Neill K, Whittaker CA, Kamal M, Chang JL, Cuomo CA, Dewar K, FitzGerald MG, Kodira CD, Madan A, Qin S, Yang X, Abbasi N, Abouelleil A, Arachchi HM, Baradarani L, Birditt B, Bloom S, Bloom T, Borowsky ML, Burke J, Butler J, Cook A, DeArellano K, DeCaprio D, Dorris III L, Dors M, Eichler EE, Engels R, Fahey J, Fleetwood P, Friedman C, Gearin G, Hall JL, Hensley G, Johnson E, Jones C, Kamat A, Kaur A, Locke DP, Munson G, Jaffe DB, Lui A, Macdonald P, Mauceli E, Naylor JW, Nesbitt R, Nicol R, O'Leary SB, Ratcliffe A, Rounsley S, She X, Sneddon KMB, Stewart S, Sougnez C, Stone SM, Topham K, Vincent D, Wang S, Zimmer AR, Birren BW, Hood L, Lander ES, Nusbaum C. **(2006) Analysis of the DNA Sequence and Duplication History of Human Chromosome 15.** *Nature* 440:671-675.
632. Glusman G, Qin S, Raafat M, Gewely EL, Siegel AF, Roach JF, Hood L, Smit AFA. **(2006) A Third Approach to Gene Prediction Suggests Thousands of Additional Human Transcribed Regions.** *PLoS Computational Biology*, 2:e18.
633. Lu W, Zhou D, Glusman G, Utleg AG, White JR, Nelson PS, Vasicek TJ, Hood L, Lin B. **(2006) KLK31P is a Novel Androgen Regulated and Transcribed Pseudogene of Kallikreins That is Expressed at Lower Levels in Prostate Cancer Cells Than in Normal Prostate Cells.** *The Prostate* 66:936-944.
634. Roach JC, Deutsch K, Li S, Siegel AF, Bekris LM, Einhaus DC, Sheridan CM, Glusman G, Hood L, Lernmark Å, Janer M. **(2006) Genetic Mapping at 3-Kilobase Resolution Reveals Inositol 1,4,5-Triphosphate Receptor 3 as a Risk Factor for Type 1 Diabetes in Sweden.** *American Journal of Human Genetics* 79(4):614-627.

635. Purcell MK, Smith KD, Hood L, Winton JR, Roach JC. (2006) **Conservation of Toll-Like Receptor Signaling Pathways in Teleost Fish.** *Comp Biochem Physiol Part D Genomics Proteomics* Mar;1(1):77-88.
636. Schaid DJ, McDonnell SK, Zarfes KE, Cunningham JM, Hebring S, Thibodeau SN, Eeles RA, Easton DF, Foulkes WD, Simard J, Giles GG, Hopper JL, Mahle L, Moller P, Badzioch M, Bishop DT, Evans C, Edwards S, Meitz J, Bullock S, Hope Q, Guy M, Hsieh CL, Halpern J, Balise RR, Oakley-Girvan I, Whittemore AS, Xu J, Dimitrov L, Chang BL, Adams TS, Turner AR, Meyers DA, Friedrichsen DM, Deutsch K, Kolb S, Janer M, Hood L, et al. Ostrander EA, Stanford JL, Ewing CM, Gielzak M, Isaacs SD, Walsh PC, Wiley KE, Isaacs WB, Lange EM, Ho LA, Beebe-Dimmer JL, Wood DP, Cooney KA, Seminara D, Ikonen T, Baffoe-Bonnie A, Fredriksson H, Matikainen MP, Tammela TL, Bailey-Wilson J, Schleutker J, Maier C, Herkommer K, Hoegel JJ, Vogel W, Paiss T, Wiklund F, Emanuelsson M, Stenman E, Jonsson BA, Grönberg H, Camp NJ, Farnham J, Cannon-Albright LA, Catalona WJ, Suarez BK, Roehl KA. (2006) **Pooled genome linkage scan of aggressive prostate cancer: results from the International Consortium for Prostate Cancer Genetics.** *Hum Genet.* Nov;120(4):471-85.
637. Burrage K, Hood L, Ragan MA. (2006) **Advanced computing for systems biology.** *Brief Bioinform.* Dec;7(4):390-8.
638. He XC, Yin T, Grindley JF, Tian Q, Sato T, Tao WA, Dirisina R, Porter-Westpfahl KS, Hembree M, Johnson T, Wiedemann LM, Barrett TA, Hood L, Wu H, Li L. (2006) **PTEN-Deficient Intestinal Stem Cells Initiate Intestinal Polyposis.** *Nature Genetics* 2007 Feb;39(2):189-98.
639. Price ND, Trent J, El-Naggar AK, Cogdell D, Taylor E, Hunt KK, Pollock RE, Hood L, Shmulevich I, Zhang W. (2007) **Highly accurate two-gene classifier for differentiating gastrointestinal stromal tumors and leiomyosarcomas.** *Proc Natl Acad Sci USA.* Feb 27;104(9):3414-9.
640. Rostad K, Mannelqvist M, Halvorsen OJ, Oyan AM, Bo TH, Stordrange L, Olsen S, Haukaas SA, Lin B, Hood L, Jonassen I, Akslen LA, Kalland KH. (2007) **ERG upregulation and related ETS transcription factors in prostate cancer.** *Int. J Oncol* 30: 19-32.
641. Sun B, Ranish JA, Utleg AG, White JT, Yan X, Lin B, Hood L. (2007) **Shotgun glycopeptide-capture approach coupled with mass spectrometry for comprehensive glycoproteomics.** *Mol Cell Proteomics* 6(1):141-9.
642. Ma L, Sun B, Hood L, Tian Q. (2007) **Molecular profiling of stem cells.** *Clin Chim Acta* Mar;78(1-2):24-32.
643. Tu LT, Yan X, Hood L, Lin B. (2007) **Proteomics analysis of the interactome of N-myc downstream regulated gene 1 and its interactions with the androgen response program in prostate cancer cells.** *Mol. Cell Proteomics* 6:575-588.
644. Halvorsen OJ, Rostad K, Oyan AM, Pentervoll H, Bo TH, Stordrange L, Olsen S, Haukaas SA, Hood L, Jonassen I, Kalland KH, Akslen LA. (2007) **Increased expression of SIM2-s protein is a novel marker of aggressive prostate cancer.** *Clin Cancer Res* Feb 1;13(3):892-7.
645. Pierce BL, Friedrichsen-Karyadi DM, McIntosh L, Deutsch K, Hood L, Ostrander EA, Austin MA, Stanford JL. (2007) **Genomic scan of 12 hereditary prostate cancer families having an occurrence of pancreas cancer.** *Prostate* Mar 1;67(4):410-5.
646. Facciotti MT, Reiss DJ, Pan M, Kaur A, Vuthoori M, Bonnear R, Shannon P, Srivastava A, Donohoe SM, Hood LE, Baliga NS. (2007) **General transcription factor specified global gene regulation in archaea.** *Proc Natl Acad Sci* Mar 13;104(11):4630-35.
647. Bonneau R, Facciotti MT, Reiss DJ, Schmid AK, Pan M, Kaur A, Thorsson V, Shannon P, Johnson MH, Bare JC, Longabaugh W, Vuthoori M, Whitehead K, Madar A, Suzuki L, Mori T, Chang DE, Diruggiero J, Johnson CH, Hood L, Baliga NS. (2007) **A predictive model for transcriptional control of physiology in a free living cell.** *Cell* 2007 Dec 28;131(7):1354-65.
648. Price ND, Foltz G, Madan A, Hood L, Tian Q (2007) **Systems Biology and Cancer Stem Cells.** *J Cell Mol Med* Nov 20.
649. Cline MS, Smoot M, Cerami E, Kuchinsky A, Landys N, Workman C, Christmas R, Avila-Campilo I, Creech M, Gross B, Hanspers K, Isserlin R, Kelley R, Killcoyne S, Lotia S, Maere S, Morris J, Pico AR, Vailaya A, Wang PL, Adler A, Conklin BR, Hood L, Kuiper M, Sander, Ono K, Pavlovic V C, Shmulevich I, Schwikowski B, Warner GJ, Ideker T, Bader GD. (2007) **Integration of biological networks and gene expression data using Cytoscape.** *Nat Protoc.*

- 2007;2(10):2366-82.
650. Schaid DJ, Stanford JL, McDonnell SK, Suuriniemi M, McIntosh L, Karyadi DM, Carlson EE, Deutsch K, Janer M, Hood L, Ostrander EA. **(2007) Genome-wide linkage scan of prostate cancer Gleason score and confirmation of chromosome 19q.** *Human Genetics* Jul;121(6):729-35.
 651. Johanneson B, Deutsch K, McIntosh L, Friedrichsen-Karyadi DM, Janer M, Kwon EM, Iwasaki L, Hood L, Ostrander EA, Stanford JL. **(2007) Suggestive genetic linkage to chromosome 11p11.2-q12.2 in hereditary prostate cancer families with primary kidney cancer.** *Prostate* 2007 May 15;67(7):732-42.
 652. Roach JC, Smith KD, Strobe KL, Nissen SM, Haudenschild CD, Zhou D, Vasicek TJ, Held GA, Stolovitzky GA, Hood LE, Aderem A. **(2007) Transcription factor expression in lipopolysaccharide-activated peripheral-blood-derived mononuclear cells.** *Proc Natl Acad Sci USA* 2007 Oct 9;104(41):16245-50.
 653. Kutlu B, Baxter D, Burdick DB, Cardozo AK, Goodman N, Eizirik DL, Welsh N, Hood L. **(2007) Global Gene Expression Study of Cytokine-Treated Human Islets Reveals Functionally Related Clusters of Differentially Expressed Genes.** *43rd Annual Meeting of the European Association for the Study of Diabetes* (September).
 654. Li M, Sun B, Hood L, Tian Q. **(2007) Molecular Profiling of Stem Cells.** *Clinica Chimica Acta* 378, 24-32.
 655. Tischkowitz MD, Chen LQ, Friedrichsen-Kayadi DM, Kirchhoff T, Hamel N, Tavtigian SV, Kolb S, Nelson P, Hood L, Narod SA, White KA, Ostrander EA, Isaacs WB, Offit K, Cooney KA, Stanford JL, Foulkes. **(2008). Identification and Characterization of Novel SNPs in CHEK2 IN Ashkenzai Jewish Men with Prostate Cancer.** *Cancer Lett.* 270(1): p. 173-80.
 656. Lin B, Wang J, Cheng Y. **(2008) Recent Patents and Advances in the Next-Generation Sequencing Technologies.** *Recent Pat Biomed Eng.* 2008;(1):60–67.
 657. Lin B, Utleg AG, Gravdal K, White JT, Halvorsen OJ, Lu W, True LD, Vessella R, Lange PH, Nelson PS, Hood L, Kalland KH, Aksten LA. **(2008) WDR19 expression is increased in prostate cancer compared to normal cells, but low intensity expression in cancers is associated with shorter time to biochemical failures and local recurrence.** *Clinical Cancer Research* 14: 1397-1406.
 658. Ao P, Galas D, Hood L, Zhu X. **(2008) Cancer as robust intrinsic state of endogenous molecular-cellular network shaped by evolution.** *Med Hypotheses* 70(3):678-84.
 659. Price ND, Foltz G, Madan A, Hood L, Tian Q. **(2008) Systems biology and cancer stem cells.** *J Cell Mol Med.* Jan-Feb;12(1):97–110.
 660. Geiss GK, Bumgarner RE, Birditt B, Dahl T, Dowidar N, Dunaway DL, Fell HP, Ferree S, George RD, Grogan T, James JJ, Maysuria M, Mitton JD, Oliveri P, Osborn JL, Peng T, Ratcliffe AL, Webster PJ, Davidson EH, Hood L. **(2008) Direct multiplexed measurement of gene expression with color-coded probe pairs.** *Nat Biotechnol* Mar;26(3):317-25.
 661. Hood L, Rowen L, Galas DJ, Aitchison JD. **(2008) Systems Biology at the Institute for Systems Biology.** *Briefings in Functional Genomics and Proteomics* Jul;7(4):239-48.
 662. Nykter M, Price ND, Aldana M, Ramsey SA, Kauffman SA, Hood LE, Yli-Harja O, Shmulevich I. **(2008) Gene expression dynamics in the macrophage exhibit criticality.** *Proc Natl Acad Sci USA.* 2008 Feb 12;105(6):1897-900.
 663. Li, R., Guo, Y. Han, B. Yan, X. Utleg, A.G. Li, W., Tu, LT., Hood, L., Xia, S. Lin, B. **(2008) Proteomics cataloguing analysis of human expressed prostatic secretions reveals rich source of biomarker candidates.** *Proteomics Clin. Appl.* 2, 543–555.
 664. Hwang D, Zhang N, Lee H, Yi E, Zhang H, Lee IY, Hood L, Aebersold R. **(2008) MS-BID: A Java package for label-free LC-MS based comparative proteomic analysis.** *Bioinformatics* 24:2641-2.
 665. Fan R, Vermesh O, Srivastava A, Yen BK, Qin L, Ahmad H, Kwong GA, Liu CC, Gould J, Hood L, Heath JR. **(2008) Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood.** *Nat Biotechnol.* Dec;26(12):1373-8.
 666. Lausted C, Hu Z, Hood L. **(2008) Quantitative serum proteomics from surface plasmon resonance imaging.** *Mol Cell Proteomics.* Dec;7(12):2464-74.

667. Tischkowitz MD, Yilmaz A, Chen LQ, Karyadi DM, Novak D, Kirchhoff T, Hamel N, Tavtigian SV, Kolb S, Bismar TA, Aloyz R, Nelson PS, Hood L, Narod SA, White KA, Ostrander EA, Isaacs WB, Offit K, Cooney KA, Stanford JL, Foulkes WD. **(2008) Identification and characterization of novel SNPs in CHEK2 in Ashkenazi Jewish men with prostate cancer.** *Cancer Lett.* Oct 18;270(1):173-80.
668. Hood L. **(2008) A personal journey of discovery: developing technology and changing biology.** *Annu Rev Anal Chem* 1:1-43.
669. Hood LE. **(2008) Wu and Kabat 1970: a transforming view of antibody diversity.** *J Immunol.* Jun 1;180(11):7055-6.
670. Hood L. **(2008) Gene regulatory networks and embryonic specification.** *Proc Natl Acad Sci U S A.* Apr 22;105(16):5951-2.
671. Kutlu B, Burdick DB, Baxter D, Rasschaert J, Flamez D, Eizirik DL, Welsh N, Goodman N, Hood L. **(2009) Detailed Transcriptome Atlas of the Pancreatic Beta Cell.** *BMC Med Gen.* Jan 15;2:3.
672. Auffray C, Chen Z, Hood L. **(2009) Systems medicine: the future of medical genomics and healthcare.** *Genome Med.* Jan 20;1(1):2.
673. Aebersold R, Auffray C, Baney E, Barillot E, Brazma A, Brett C, Brunak S, Butte A, Califano A, Celis J, Cufer T, Ferrell J, Galas D, Gallahan D, Gatenby R, Goldbeter A, Hace N, Henney A, Hood L, Iyengar R, Jackson V, Kallioniemi O, Klingmüller U, Kolar P, Kolch W, Kyriakopoulou C, Laplace F, Lehrach H, Marcus F, Matrisian L, Nolan G, Pelkmans L, Potti A, Sander C, Seljak M, Singer D, Sorger P, Stunnenberg H, Superti-Furga G, Uhlen M, Vidal M, Weinstein J, Wigle D, Williams M, Wolkenhauer O, Zhitovovskiy B, Zinovyev A, Zupan B. **(2009) Report on EU-USA workshop: how systems biology can advance cancer research.** *Mol Oncol.* 2009 Feb;3(1):9-17
674. Heath JR, Davis ME, Hood L. **(2009) Nanomedicine targets cancer.** *Sci Am.* Feb;300(2):44-51.
675. Lausted C, Hu Z, Hood L, Campbell CT. **(2009) SPR Imaging for High Throughput, Label-Free Interaction Analysis,** *Comb Chem High Throughput Screen.* 12(8): p. 741-51.
676. Majeti R, Becker MW, Tian Q, Lee TL, Yan X, Liu R, Chiang JH, Hood L, Clarke MF, Weissman IL. **(2009) Dysregulated gene expression networks in human acute myelogenous leukemia stem cells.** *Proc. Natl. Acad. Sci. USA.* Mar 3;106(9):3396-401.
677. Wang K, Zhang S, Marzolf B, Troisch P, Brightman A, Hu Z, Hood LE, Galas D. **(2009) Circulating microRNAs, a new class of blood biomarker for drug-induced liver injury.** *Proc Natl Acad Sci USA* Mar 17;106(11):4402-7.
678. Hwang D, Lee IY, Yoo H, Gehlenborg N, Cho J-H, Petritis B, Baxter D, Pitstick R, Young R, Spicer D, Price ND, Hohmann JG, Stephen J, DeArmond SJ, Carlson GA, Hood LE. **(2009) A systems approach to prion disease.** *Molecular Systems Biology.* 2009 Mar 5:252.
679. Tu LC, Foltz G, Lin E, Hood L, Tian Q. **(2009) Targeting stem cells-clinical implications for cancer therapy.** *Curr Stem Cell Res Ther* May 4(2):147-53.
680. Yu B, Yang X, Xu Y, Yao G, Shu H, Lin B, Hood L, Wang H, Yang S, Gu J, Jia F, Qin W. **(2009) Elevated expression of DKK1 is associated with cytoplasmic/nuclear beta-catenin accumulation and poor prognosis in hepatocellular carcinomas.** *Journal of Hepatology* May;50(5):948-57.
681. Stanford JL, FitzGerald LM, McDonnell SK, Carlson EE, McIntosh LM, Deutsch K, Hood L, Ostrander EA, Schaid DJ. **(2009) Dense genome-wide SNP linkage scan in 301 hereditary prostate cancer families identifies multiple regions with suggestive evidence for linkage.** *Human Molecular Genetics* May15;18(10):1839-48.
682. Gehlenborg N, Yan W, Lee IY, Yoo H, Nieselt K, Hwang D, Aebersold R, Hood L. **(2009) Prequips--an extensible software platform for integration, visualization and analysis of LC- MS/MS proteomics data.** *Bioinformatics.* 25(5):682-3.
683. Hood LE, Galas D **(2009). Systems Biology and Emerging Technologies Will Catalyze the Transition from Reactive Medicine to Predictive, Personalized, Preventive and Participatory (P4) Medicine.** *IBC 2009*, vol. 1, no. 2, article no. 6, pp. 1-5.
684. Ghosh D, Yan X, Tian Q. **(2009) Gene regulatory networks in embryonic stem cells and**

- brain development.** *Birth Defects Res C Embryo Today.* Jun 15;87(2):182-191.
685. Lin B, White JT, Wu J, Lele S, Old LJ, Hood L, Odunsi K. **(2009) Deep depletion of abundant serum proteins reveals low-abundant proteins as potential biomarkers for human ovarian cancer.** *Proteomics Clin Appl.* Jul 1;3(7):853-861.
686. Foltz G, Yoon JG, Lee H, Ryken TC, Sibenaller Z, Ehrich M, Hood L, Madan A. **(2009) DNA methyltransferase-mediated transcriptional silencing in malignant glioma: a combined whole-genome microarray and promoter array analysis.** *Oncogene.* Jul 23;28(29):2667-77.
687. Pan S, Cheng L, White JT, Lu W, Utleg AG, Yan X, Urban ND, Drescher CW, Hood L, Lin B. **(2009) Quantitative proteomics analysis integrated with microarray data reveals that extracellular matrix proteins, catenins, and p53 binding protein 1 are important for chemotherapy response in ovarian cancers.** *Omics: A Journal of Integrative Biology* 13(4):345-54.
688. Kutlu B, Kayali AG, Jung S, Parnaud G, Baxter D, Glusman G, Goodman N, Behie LA, Hayek A, Hood L. **(2009) Meta analysis of gene expression in human pancreatic islets after in vitro expansion.** *Physiol Genomics* Sept 9;39(1):72-81.
689. Lausted C, Hu Z, Hood L, Campbell CT. **(2009) SPR Imaging for High Throughput, Label Free Interaction Analysis.** *Comb Chem High Throughput Screen* Sept;12(8):741-51.
690. Gehlenborg N, Hwang D, Lee IY, Yoo H, Baxter D, Petritis B, Pitstick R, Marzolf B, DeArmond SJ, Carlson GA, Hood L **(2009) The Prion Disease Database: a comprehensive transcriptome resource for systems biology research in prion diseases.** *Database (Oxford)* 2009. PMID: PMC2790306.
691. Pascal LE, Vencio RZ, Page LS, Liebeskind ES, Shadle CP, Troisch P, Marzolf B, True LD, Hood LE, Liu AY. **(2009) Gene expression relationship between prostate cancer cells of Gleason 3, 4 and normal epithelial cells as revealed by cell type-specific transcriptomes.** *BMC Cancer* Dec 18;9:452.
692. Lin, B, Wang J, Hong X, Yan X, Hwang D, Cho JH, Yi D, Utleg AG, Fang X, Schones DE, Zhao K, Omenn GS, Hood L. **(2009) Integrated expression profiling and ChIP-seq analyses of the growth inhibition response program of the androgen receptor.** *PLoS One* 2009;4(8): e6589.
693. Ouellet E, Lausted C, Lin T, Wei C, Yang T, Hood L, Lagally ET, **(2010) Parallel microfluidic surface plasmon resonance imaging arrays.** *Lab Chip.* 2010 Mar 7;10(5):581-8.
694. Roach JC, Glusman G, Smit AR, Huff CD, Hubley R, Shannon PT, Rowen L, Pant K, Goodman N, Bamshad M, Shendure J, Drmanac R, Jorde LB, Hood L, and Galas DJ. **(2010). Analysis of genetic inheritance in a family quartet by whole genome sequencing.** *Science.* 328(5978): p. 636-9.
695. Foltz G, Yoon JG, Lee H, Ma L, Tian Q, Hood L, Madan A. **(2010) Epigenetic Regulation of Wnt Pathway Antagonists in Human Glioblastoma Multiforme.** *Genes & Cancer* 1(1): 81-90.
696. Panchalingam KM, Paramchuk WJ, Chiang CY, Shah N, Madan A, Hood L, Foltz G, Behie LA. **(2010) Bioprocessing of human glioblastoma brain cancer tissue.** *Tissue Eng Part A.* Apr;16(4):1169-77.
697. Lin, B., Madan, A., Yoon, J.G. Fang, X., Yan, X., Kim, T.K., Hwang, D., Hood, L., Foltz, G. **(2010) Massively Parallel Signature Sequencing and bioinformatics analysis identifies up-regulation of TGFBI and SOX4 in human Glioblastoma.** *PLoS ONE.* Apr 19;5(4).
698. Mo F, Mo Q, Chen Y, Goodlett DR, Hood L, Omenn GS, Li S, Lin B. **(2010) WaveletQuant, an improved quantification software based on wavelet signal threshold de-noising for labeled quantitative proteomic analysis.** *BMC Bioinformatics.* Apr 29;11:219.
699. Eddy JA, Hood L, Price ND, Geman D. **(2010) Identifying Tightly Regulated and Variably Expressed Networks by Differential Rank Conservation (DIRAC).** *PLoS Comput Biol.* May 27;6(5).
700. Cheng L, Lu w, Kulkarni B, Pejovic T, Yan X, Chiang JH, Hood L, Odunsi K, Lin B. **(2010) Analysis of chemotherapy response programs in ovarian cancers by the next-generation sequencing technologies.** *Gynecol Oncol* May;117(2):159-69.
701. Ao P, Galas D, Hood L, Yin L, Zhu XM. **(2010) Towards predictive stochastic dynamical modeling of cancer genesis and progression.** *Interdiscip Sci.* Jun;2(2):140-4.
702. Auffray C, Charron D, Hood L. **(2010) Predictive, preventive, personalized and participatory**

- medicine: back to the future.** *Genome Med.* 2010 Aug 26;2(8):57.
703. Wang K, Lee I, Carlson G, Hood L, Galas D. **(2010) Systems biology and the discovery of diagnostic biomarkers.** *Dis Markers.* 2010;28(4):199-207.
704. Del Sol A, Balling R, Hood L, Galas D. **(2010) Diseases as network perturbations.** *Curr Opin Biotechnol.* Aug; 2010;21(4):566-571.
705. Fang X, Yoon J-G, Li L, Yu W, Shao J, Hua D, Zheng S, Hood L, Goodlett DR, Foltz G, Lin B. **The (2011) SOX2 response program in glioblastoma multiforme: an integrated ChIP-seq, expression microarray, and microRNA analysis.** *BMC Genomics,* Jan 6;12:11.
706. Thiel KJ, Engelhardt B, Hood LE, Peartree NA, Neisewander JL. **(2011) The interactive effects of environmental enrichment and extinction interventions in attenuating cue-elicited cocaine-seeking behavior in rats.** *Pharmacol Biochem Behav.* Jan;97(3):595-602.
707. Yan X, Ma L, Yi D, Yoon JG, Diercks A, Foltz G, Price ND, Hood LE, Tian Q. **(2011) A CD133-related gene expression signature identifies an aggressive glioblastoma subtype with excessive mutations.** *Proc Natl Acad Sci U S A.* Jan 25; 108(4):1591-6.
708. Kim Y, Kim TK, Yoo J, You S, Lee I, Carlson G, Hood L, Choi S, Hwang D. **(2011) Principal network analysis: identification of subnetworks representing major dynamics using gene expression data.** *Bioinformatics.* Feb 1;27(3):391-8.
709. Hood L, Friend SH. **(2011) Predictive, personalized, preventive, participatory (P4) cancer medicine.** *Nat Rev Clin Oncol.* Mar;8(3):184-7.
710. Fang, X, Yoon JG, Li L, Tsai YS, Zheng S, Hood L, Goodlett DR, Foltz G, and Lin B. **(2011) Landscape of the SOX2 protein-protein interactome.** *Proteomics,* Mar;11(5):921-34.
711. Ideker T, Dutkowski J, Hood L. **(2011) Boosting Signal-to-Noise in Complex Biology: Prior Knowledge is Power.** *Cell Mar.* 18:144(6): 860-3.
712. Hood L. **(2011) Lee Hood.** *Nat Biochnol.* Mar; 29(3):191.
713. Lausted C, Hu Z, Hood L. **(2011) Label-free detection with surface Plasmon resonance imaging.** *Methods Mol Bio.* 723:321-33.
714. Moussay E, Wang K, Cho J, van Moer K, Pierson S, Paggetti J, Nazarov PV, Palissot V, Hood L, Berchem G, Galas DJ. **(2011) MicroRNA as biomarkers and regulators in B chronic lymphocytic leukemia.** *PNAS,* 108 (16): 6573-6578.
715. Hood LE. QnAs with Leroy E. Hood. **(2011) Interivew by Prashant Nair.** *Proc Natl Acad Sci U S A.* Jun 7;108(23):9325.
716. Bousquet J, Anto JM, Sterk PJ, Adcock IM, Chung KF, Roca J, Agusti A, Brightling C, Thomsen AC, Cesario A, Abdelhak S, Antonarakis SE, Avignon A, Ballabio A, Baraldi E, Baranov A, Bieber T, Bockaert J, Brahmachari S, Brambilla C, Bringer J, Dautzat M, Ernberg I, Fabbri L, Froguel P, Galas D, Gojobori T, Hunter P, Jorgensen C, Kauffmann F, Kourilsky P, Kowalski ML, Lancet D, Le Pen C, Mallet34, Mayosi B, Mercier J, Metspalu A, Nadeau JH, Ninot G, Noble D, Öztürk M, Palkonen S, Préfaut C, Rabe K, Renard E, Roberts RG, Samolinski B, Schünemann HJ, Simon HU, Soares MB, Superti-Furga G, Tegner J, Almeida SV, Wellstead P, Wolkenhauer O, Wouters E, Balling R, Brookes AJ, Charron D, Pison C, Chen Z, Hood L, Auffray C. **(2011) Systems medicine and integrated care to combat chronic noncommunicable diseases,** *Genome Medicine,* 2011 Jul 6;3(7):43.
717. Hood L. **Acceptance Remarks for Fritz J. and Delores H. Russ Prize,** *NAE Journal The Bridge,* Summer 2011, 41:(2):46-49.
718. Roach JC, Glusman G, Hubble R, Montsaroff SZ, Holloway AK, Mauldin DE, Srivastava D, Garg V, Pollard KS, Galas DJ, Hood L, Smit AFA. **(2011) Chromosomal Haplotypes by Genetic Phasing of Human Families.** *AJHG.* 2011 Sep 9;89(3):382-97.
719. Hood L. **(2011) Biological Complexity Under Attack.** *Gen Engr & Biotech News.* Oct 1, 2011 Vol. 31, No. 17.
720. Westaway D, Genovesi S, Daude N, Brown R, Lau A, Lee I, Mays CE, Coomaraswamy J, Canine B, Pitstick R, Herbst A, Yang J, Ko KWS, Schmitt-Ulms G, DeArmond SJ, McKenzie D, Hood L, Carlson GA. **(2011) Down- Regulation of Shadoo in Prion Infections Traces a Pre-Clinical Event Inversely Related PrP(Sc) Accumulation,** *PloS Pathogens,* 2011 Nov;7(11).
721. Glusman G, Caballero J, Mauldin DE, Hood L, Roach JC. **(2011) Kaviar: an accessible system for testing SNV novelty.** *Bioinformatics.* Nov 15;27(22):3216-7.

722. Etheridge A, Lee I, **Hood L**, Galas D, Wang K. (2011) **Extracellular microRNA: a new source of biomarkers.** *Mutat Res.* 2011 Dec 1;717(1-2):85-90.
723. Shi Q, Qin L, Wei W, Geng F, Fan R, Shin YS, Guo D, Hood L, Mischel PS, Heath JR. (2012) **Single-cell proteomic chip for profiling intracellular signaling pathways in single tumor cells.** *Proc Natl Acad Sci U S A.* Jan 10;109(2):419–24.
724. Tian Q, Price ND, Hood L. (2012) **Systems cancer medicine: towards realization of predictive, preventive, personalized and participatory (P4) medicine.** *J Intern Med.* Feb; 271(2): 111-21.
725. Chen LY, Wei KC, Huang AC, Wang K, Huang CY, Yi D, Tang CY, Galas DJ, Hood LE. (2012) **RNASEQR--a streamlined and accurate RNA-seq sequence analysis program.** *Nucleic Acids Res.* Mar 1;40(6).
726. Qin S, Zhou Y, Lok AS, Tsodikov A, Yan X, Gray L, Yuan M, Moritz RL, Galas D, Omenn GS, Hood L. (2012) **SRM targeted proteomics in search for biomarkers of HCV-induced progression of fibrosis to cirrhosis in HALT-C patients.** *Proteomics.* Apr;12(8):1244-52.
727. Hood L. (2012) **Tackling the Microbiome.** *Science.* Jun 8;336(6086):1209.
728. Auffray C, Hood L. (2012) **Editorial: Systems biology and personalized medicine – the future is now.** *Biotechnol J.* Aug;7(8):938-9.
729. Hood L, Balling R, Auffray C. (2012) **Revolutionizing medicine in the 21st century through systems approaches.** *Biotechnology Journal.* 2012 Aug;7(8):992-1001.
730. Hood L, Tian Q. (2012) **Systems Approaches to Biology and Disease Enable Translational Systems Medicine.** *Genomics, Proteomics & Bioinformatics.* 2012 Aug;10(4):181-5. **2012-2015 Distinguished Genomics, Proteomics and Bioinformatics Article**
731. Hood L, Omenn GS, Moritz R, Aebersold R, Yamamoto KR, Amos M, Hunter-Cevera J, Locascio L, and Workshop Participants. (2012) **New and Improved Proteomics Technologies for Understanding Complex Biological Systems: Addressing a Grand Challenge in the Life Sciences.** A White Paper. *Proteomics.* 2012 Sep;12(18):2773-83.
732. Hood L, Flores M. (2012) **A personal view on systems medicine and the emergence of proactive P4 medicine: predictive, preventive, personalized and participatory.** *N Biotechnol.* 2012 Sep 15;29(6):613-24.
733. Han X, Fang X, Lou X, HuaW, Ding W, Foltz G, Hood L, Yuan Y, Lin B. (2012). **Silencing SOX2 induced mesenchymal-epithelial transition and its expression predicts liver and lymph node metastasis of CRC patients.** *PLoS ONE* 2012;7(8).
734. You S, Cho CS, Lee I, **Hood L**, Hwang D, Kim WU. (2012) **A systems approach to rheumatoid arthritis.** *PLoS One.* 2012;7(12).
735. Ko Y, Ament SA, Eddy JA, Caballero J, Earls JC, **Hood L**, Price ND. (2013) **Cell type-specific genes show striking and distinct patterns of spatial expression in the mouse brain.** *Proc Natl Acad Sci U S A.* 2013 Feb 19;110(8):3095-100.
736. Hood, L. (2013) **Systems Biology and P4 Medicine: Past, Present, and Future.** *RMMJ* 2013; 4 (2).
737. *Goverman J, Woods A, Larson L, Weiner LP, Hood L, Zaller DM.* **Pillars article: Transgenic mice that express a myelin basic protein-specific T cell receptor develop spontaneous autoimmunity.** *J. Immunol.* **2013** Apr 1;190(7):3018-27.
738. Gomes CPC, Cho J-H, Hood L, Franco OL, Pereira RW, Wang K. (2013) **A review of computational tools in microRNA discovery.** *Front. Genet.* May 15;4:81.
739. Sun B, Utleg A, Hu Z, Qin S, Keller A, Lorang C, Gray L, Brightman A, Lee D, Alexander V, Ranish J, Moritz R, Hood L. **GlycoCapture-Assisted Global Quantitative Proteomics (gagQP) Reveals Multiorgan Responses in Serum Toxicoproteome.** *Journal of Proteome Research.* **2013** May 3;12(5):2034-44.
740. *Hood, L.* **Interview with Leroy Hood.** *Bioanalysis.* **2013** Jun;5(12).
741. Sung J, Kim PJ, Ma S, Funk CC, Magis AT, Wang Y, Hood L, Geman D, Price ND. **Multi-study Integration of Brain Cancer Transcriptomes Reveals Organ-Level Molecular Signatures.** *PLoS Comput Biol.* **2013** Jul;9(7).
742. Sun B, Ma L, Yan X, Lee D, Alexander V, Hohmann LJ, Lorang C, Chandrasena L, Tian Q, Hood L. **N-glycoproteome of E14. Tg2a mouse embryonic stem cells.** *PLoS One.* **2013**;8(2).

743. Flores M, Glusman G, Brogaard K, Price N, Hood L. **P4 medicine: how systems medicine will transform the healthcare sector and society.** *Future Medicine*. August 2013, Vol. 10, No. 6, Pages 565-576.
744. Zheng H, Wang W, Li X, Wang Z, Hood L, Lausted C, Hu Z. **An automated Teflon microfluidic peptide synthesizer.** *Lab Chip*. 2013 Sep 7;13(17):3347-50.
745. Hood L, Rowen L. **The human genome project: big science transforms biology and medicine.** *Genome Medicine*. 2013, 5:79 (13 September 2013).
746. Hood L, Lazowska, E. **Every life has equal value.** *Cell*. 2013 Sep 12;154(6):1178-9. j.cell.2013.08.046.
747. Yurong S, Zhang Q, Kutlu B, Difilippantonio S, Bash R, Gilbert D, Yin C, O'Sullivan TN, Yang C, Kozlov S, Bullitt E, McCarthy KD, Kafri T, Louis DN, Miller CR, Hood L, Van Dyke T. **Evolutionary etiology of high-grade astrocytomas.** *PNAS*. 2013 Oct. 110(44):17933-17938.
748. Li XJ, Hayward C, Fong P-Y, Dominguez M, Hunsucker SW, Lee LW, McLean M, Law S, Butler H, Schirm M, Gingras O, Lamontagne J, Allard R, Chelsky D, Price ND, Lam S, Massion PP, Pass H, Rom WN, Vachani A, Fang KC, Hood L, Kearney K. **A Systems Biology-Derived, Blood-Based Proteomic Classifier for the Molecular Characterization of Pulmonary Nodules.** *Sci Transl Med*. 16 October 2013 Vol. 5, Issue 207, p. 207ra142.
749. Hood L, Auffray C. **Participatory medicine: a driving force for revolutionizing healthcare.** Editorial. *Genome Medicine* 2013, 5:110.
750. Song Y, Zhang Q, Kutlu B, Difilippantonio S, Bash R, Gilbert D, Yin C, O'Sullivan TN, Yang C, Kozlov S, Bullitt E, McCarthy KD, Kafri T, Louis DN, Miller CR, Hood L, Van Dyke T. **Evolutionary etiology of high-grade astrocytomas.** *Proc Natl Acad Sci U S A*. 2013 Oct 29;110(44).
751. Lalli MA, Cox HC, Arcila ML, Cadavid L, Moreno S, Garcia G, Madrigal L, Reiman EM, Arcos-Burgos M, Bedoya G, Brunkow ME, Glusman G, Roach JC, Hood L, Kosik KS, Lopera F. **Origin of the PSEN1 E280A mutation causing early-onset Alzheimer's disease.** *Alzheimers Dement*. 2013 Nov 13. pii: S1552-5260(13)02840-9.
752. Glusman G, Caballero J, Robinson M, Kutlu B, Hood L. **Optimal scaling of digital transcriptomes.** *PLoS One*. 2013 Nov 6;8(11).
753. Hu Z, Lausted C, Yoo H, Yan X, Brightman A, Chen J, Wang W, Bu X, Hood L. **Quantitative liver-specific protein fingerprint in blood: a signature for hepatotoxicity.** *Theranostics*. 2014 Jan 14;4(2):215-28.
754. Li H, Glusman G, Hu H, Shankaracharya, Caballero J, Hubble R, Witherspoon D, Guthery SL, Mauldin DE, Jorde LB, Hood L, Roach JC, Huff CD. **Relationship estimation from whole-genome sequence data.** *PLoS Genet*. 2014 Jan 30;10(1).
755. G Glusman, A Severson, V Dhankani, M Robinson, T Farrah, DE Mauldin, A-B Stittrich, SA Ament, JC Roach, ME Brunkow, DL Bodian, JG Vockley, I Shmulevich, JE Niederhuber, L Hood (2015) **Identification of Copy Number Variants in Whole-Genome Data Using Reference Coverage Profiles.** *Frontiers in Genetics*. 2015 Feb 17;6:45. doi: 10.3389. PMID: 25741365
756. Hood L, Price, ND. **Demystifying Disease, democratizing health care.** *Sci Transl Med*. 2014 Feb 26;6(225):225ed5.
757. Cho JH¹, Lee I, Hammamieh R, Wang K, Baxter D, Scherler K, Etheridge A, Kulchenko A, Gautam A, Muhie S, Chakrabopromotingrty N, Galas DJ, Jett M, Hood L. **Molecular evidence of stress-induced acute heart injury in a mouse model simulating posttraumatic stress disorder.** *Proc Natl Acad Sci U S A*. 2014 Feb 25;111(8):3188-9.
758. Chiang JH, Cheng WS, Hood L, Tian Q. **An Epigenetic Biomarker Panel for Glioblastoma Multiforme Personalized Medicine through DNA Methylation Analysis of Human Embryonic Stem Cell-like Signature.** *OMICS*. 2014 Mar 6.
759. Lopes M, Kutlu B, Miani M, Bang-Berthelsen CH, Størting J, Pociot F, Goodman N, Hood L, Welsh N, Bontempi G, Eizirik DL. **Temporal profiling of cytokine-induced genes in pancreatic β -cells by meta-analysis and network inference.** *Genomics*. 2014 Apr;103(4):264-75.
760. Lausted C, Lee I, Zhou Y, Qin S, Sung J, Price ND, Hood L, Wang K. **Systems Approach to**

- Neurodegenerative Disease Biomarker Discovery.** *Annu Rev Pharmacol Toxicol.* 2014;54:457-81.
761. Cesario A, Auffray C, Russo P, Hood L. (2014) **P4 Medicine Needs P4 Education.** *Curr Pharm Des.* 2014 Mar 14. [Epub ahead of print]
762. Sun B, Hood L. **Protein-Centric N-Glycoproteomics analysis of Membrane and Plasma Membrane Proteins.** *J Proteome Res.* 2014 May 1. [Epub ahead of print]
763. Hood L, Price N, **Promoting Wellness & Demystifying Disease: The 100K Project.** *Clinical OMICs Innovator,* May 2014
764. Cabalero J, Smit AF, Hood L, Glusman G. **Realistic artificial DNA sequences as negative controls for computational genomics.** *Nucleic Acids Res.* 2014 May 6. [Epub ahead of print]
765. Hu H, Roach JC, Coon H, Guthery SL, Voelkerding KV, Margraf RL, Durtschi JD, Tavtigian SV, Shankaracharya, Wu W, Scheet P, Wang S, Xing J, Glusman G, Hubley R, Li H, Garg V, Moore B, Hood L, Galas DJ, Srivastava D, Reese MG, Jorde LB, Yandell M, Huff CD. (2014) **A unified test of linkage analysis and rare-variant association for analysis of pedigree sequence data.** *Nat Biotechnol.* 2014 May 18. [Epub ahead of print]
766. Hincó J, Gierman, Kristen Fortney, Jared C. Roach, Natalie S. Coles, Hong Li, Gustavo Glusman, Glenn J. Markov, Justin D. Smith, Leroy Hood, L. Stephen Coles, and Stuart K. Kim. **Whole-Genome Sequencing of the World's Oldest People.** *PLoS One.* 2014. In Press.
767. Zhu, Ling; Wang, Kun; Cui, Jian; Liu, Huan; Bu, Xiangli; Ma, Huailei; Wang, Weizhi; Gong, He; Lausted, Christopher; Hood, Leroy; Yang, Guang; Hu, Zhiyuan **Label-free Quantitative Detection of Tumor-derived Exosomes through Surface Plasmon Resonance Imaging**
768. Yuqing He, Kang Zeng, Xibao Zhang, Qiaolin Chen, Jiang Wu, Hong Li, Yong Zhou, Gustavo Glusman, Jared Roach, Alton Etheridge, Shizhen Qing, Qiang Tian, Inyoul Lee, Xin Tian, Xiaoning Wang, Zhihua Wu, Leroy Hood, Yuanlin Ding and Kai Wang **A Gain of Function Mutation in TRPV3 Causes Focal Palmoplantar Keratoderma in a Chinese Family.** *J Invest Dermatol* doi:10.1038/jid.2014.429
769. L Hood, JC Lovejoy, ND Price (2014) **Integrating Big Data and Actionable Health Coaching to Optimize Wellness.** *BMC Med* 13:4.
770. S Anderson, I Lee, C Ebeling, DA. Stephenson, K Schweitzer, D Baxter, T Moon, S LaPierre, B Jacques, D Silvius, M Wegner, L E. Hood, G Carlson and T M. Gunn. **Disrupted SOX10 function causes spongiform neurodegeneration in gray tremor mice.** *Mammalian Genomics.* 2015. Feb, 26(1-2):80-93. PMID: 25399070.
771. J-P Boissel, C Auffray, D Nobel, L Hood, F-H Boissel. **Bridging Systems Medicine and Patient Needs.** *CPT Pharmacometrics Syst. Pharmacol* (2015)4, e26;doi:10.1002/psp4.26
772. Biaoyang Lin, Hwahyung Lee, Jae-Geun Yoon, Anup Madan, Elizabeth Wayner, Sanja Tønning, Parvinder Hothi, Brett Schroeder, Ilya Ulasov, Gregory Foltz, Leroy Hood, Charles Cobbs. **Global analysis of H3K4me3 and H3K27me3 profiles in glioblastoma stem cells and identification of SLC17A7 as a bivalent tumor suppressor gene.** *Oncotarget.* 2015, Mar 10; Vol. 6, No.7. PMID: 25749033.
773. SA Ament, S Szeling, G Glusman, J Ashworth, L Hou, N Akula, T Shekhtman, JA Badner, ME Brunkow, DE Mauldin, A-B Stittrich, K. Rouleau, SD Detera-Wadleigh, JI Nurnberger, HJ Edenberg, ES Gershon, N Schork, The Bipolar Genome Study, ND Price, R Gelinias, L Hood, D Craig, FJ McMahon, JR Kelsoe, JC Roach (2015) **Rare Variants in Neuronal Excitability Genes Influence Risk for Bipolar Disorder.** *PNAS.* 2015 Mar 17;112(11):3576-81. doi: 10.1073. PMID:25730879.
774. Toga, A.W., Foster, I., Kesselman, C., Madduri, R., Chard, K., Deutsch, E.W., Price, N.D., Glusman, G., Heavner, B.D., Dinov, I.D. Ames, J., Van Horn, J., Kramer, R., and Hood, L. **Big biomedical data as the key resource for discovery science.** *Journal of the American Medical Informatics Association (JAMIA)* July 2015
775. Ulrike Kusebauch, David S. Campbell Eric W. Deutsch, Caroline S. Chu, Douglas A. Spicer, Mi-Youn Brusniak, Joseph Slagel, Zhi Sun, Jeffrey Stevens, Barbara Grimes, David Shteynberg, Michael R. Hoopmann, Peter Blattman, Alexander V. Ratushny, Oliver Rinner, Paola Picotti, Christine Capapito, Chung-Ying Huang, Megahn Kapousouz, Henry Lam, Tommy Tran, Emek

- Demir, John D. Aitchison, Chris Sander, Leroy Hood, Ruedi Aebersold, Robert L. Moritz. Human SRMAtlas: A Resource of Targeted Assays to Quantify the Complete Human Proteome. Cell, July 28, 2016, 166, 766-778*
776. Ivo D. Dinov, Ben Heavner, Ming Tang, Gustavo Glusman, Kyle Chard, Mike Darcy, Ravi Madduri, Judy Pa, Cathie Spino, Carl Kesselman, Ian Foster, Eric W. Deutsch, Nathan D. Price, John D. Van Horn, Joseph Ames, Kristi Clark, Leroy Hood, Benjamin M. Hampstead, William Dauer, Arthur W. Toga. **(2016) Predictive Big Data Analytics: A Study of Parkinson's Disease Using Large, Complex, Heterogeneous, Incongruent, Multi-Source and Incomplete Observations.** *PLoS One, August 5, 2016*
777. Qin, Shizhen; Zhou, Yong; Gray, Li; Kusebauch, Ulrike; McEvoy, Laurence; Antoine, Daniel; Hampson, Lucy; Park, Brian; Campbell, David; Caballero, Juan; Glusman, Gustavo; Yan, Xiaowei; Kim, Taek-Kyun; Yuan, Yue; Wang, Kai; Rowen, Lee; Moritz, Robert L.; Omenn, Gilbert; Pirmohamed, Munir; Hood, Leroy. **Identification of Blood Protein Biomarkers of Acute Liver Injury by Targeted Quantitative Proteomics in Acetaminophen and Carbon tetrachloride treated Mouse Models and Acetaminophen Overdose Patients.** *J Proteome Research, August 30, 2016, DOI: 10.1021/acs.jproteome.6b00547*
778. Rhishikesh Bargaje, Kalliopi Trachana, Martin N. Shelton, Christopher S. McGinnis, Joseph X. Zhou, Cora Chadick, Savannah Cook, Christopher Cavanaugh, Sui Huang, and Leroy Hood. **Cell population structure prior to bifurcation predicts efficiency of directed differentiation in human induced pluripotent cells.** *Proc Natl Acad Sci U S A. 2017 Feb 28;114(9):2271-2276. doi: 10.1073/pnas.1621412114. Epub 2017 Feb 6. PMID: 28167799.*
779. Ament SA, Pearl JR, Grindeland A, St. Claire J, Earls JC, Kovalenko M, Gillis T, Mysore J, Gusella JF, Lee JM, Kwak S, Howland D, Lee M, Baxter D, Scherler K, Wang K, Geman D, Carroll JB, MacDonald ME, Carlson G, Wheeler VC, Price ND, Hood LE. **High resolution time-course mapping of early transcriptomic, molecular and cellular phenotypes in Huntington's disease CAG knock-in mice across multiple genetic backgrounds.** *Human Molecular Genetics 27 Feb 2017 ddx006. doi: 10.1093/hmg/ddx006. PMID: 28334820.*
780. Dhiman, Ghosh; Funk, Cory; Caballero, Juan; Shah, Nameeta; Rouleau, Katherine; Earls, JC; Soroceanu, Liliana; Foltz, Greg; Cobbs, Charles; Price, Nathan; Hood, Leroy. **A Cell-Surface Membrane Protein Signature for Glioblastoma.** *Cell Systems 24 May 2017;4(5):516-529.e7. doi: 10.1016/j.cels.2017.03.004. PMID: 28365151.*
781. Kuo-Chen Wei, Chia-Yuan Chen, Li-Ying Feng, Wei-Tzu Huang, Chia-Hua Chen, Peng-Wei Hsu, Kai Wang, Leroy E. Hood, Leslie Y. Chen. **The rs16906252:C>T SNP is not associated with increased overall survival or temozolomide response in a Han-Chinese glioma cohort.** *PLOS One, June 2, 2017;12(6):e0178842, PMID: 28575062, doi: 10.1371/journal.pone.0178842*
782. Nathan D Price, Andrew T Magis, John C Earls, Gustavo Glusman, Roie Levy, Christopher Lausted, Daniel T McDonald, Ulrike Kusebauch, Christopher L Moss, Yong Zhou, Shizhen Qin, Robert L Moritz, Kristin Brogaard, Gilbert S Omenn, Jennifer C Lovejoy, Leroy Hood. **A wellness study of 108 individuals using personal dense, dynamic data clouds.** *Nat Bio 2017: 35, 747-756. doi: 10.1038/nbt.3870. doi: 10.1038/nbt.3870, PMID: 28714965.*
783. Gustavo Glusman, Denise E Mauldin, Leroy E Hood, Max Robinson. **Ultrafast comparison of personal genomes via precomputed genome fingerprints.** *Front. Genet. 26 Sep 2017. 8:136. doi: 10.3389/fgene.2017.00136. PMCID: PMC5623000*

E. Invited Reviews or Commentaries

1. Hood L, et al. **(1969) An Extension of the Nomenclature for Immunoglobulins.** *Bull. World Health Org. 41:975-978.*
2. Hood L, Talmage DW. **(1970) On the Mechanism of Antibody Diversity: Evidence for the Germ Line Basis of Antibody Variability.** *Developmental Aspects of Antibody Formation and*

- Structure*, Vol. II, 935-962. Ed. J. Sterzl. Academia Publishing House of the Czechoslovak Academy of Sciences, Prague.
3. Hood L, Talmage DW. (1970) **Mechanism of Antibody Diversity: Germ Line Basis for Variability.** *Science* 168:325-334.
 4. Smith GP, Hood L, Fitch WM. (1971) **Antibody Diversity.** *Annual Review of Biochemistry* 40:969-1012.
 5. Hood L, Waterfield MD, Morris J, Todd CW. (1971) **Light Chain Structure and Theories of Antibody Diversity.** *New York Academy of Sciences* 190:26-36.
 6. Hood L, Prahl J. (1971) **The Immune System: A Model for Differentiation in Higher Organisms.** *Advances in Immunology* 14:291-351.
 7. Hood L. (1972) **Two Genes, One Polypeptide Chain - Fact or Fiction?** *Federation Proceedings* 31:177-187.
 8. Hood L. (1972) **Immunoglobulin Genetics.** *American Journal of Human Genetics* 24:702-704.
 9. Hood L. (1973) **The Genetics, Evolution and Expression of Antibody Molecules.** *Proceedings of the Stadler Genet. Symp.* 5:73-142.
 10. Hood L. (1973) **The Genetics, Evolution and Expression of Antibody Molecules.** *Proceedings of the Stadler Genet. Symp.* 5:73-142.
 11. Hood L. (1974) **The ABC's of Cancer.** *Engineering and Science* 36, 2-10, 1973.
 12. Loh E, Hood L. **Antibody Genes and Antibody Molecules.** *PAABS Revista* 3:605-619.
 13. Hood LE, Mackin, Jr. RJ. (1974) **Medical Genetics and the Engineering of Man.** *Engineering and Science* 37:2-5 and 30-32.
 14. Hood L, Barstad P, Loh E, Nottenburg C. (1974) **Antibody Diversity: An Assessment. The Immune System: Genes, Receptors, Signals** 119-139. Eds. E. Sercarz, A. Williamson and C. F. Fox. Academic Press, New York, San Francisco, London.
 15. Hood L. **Antibodies: A Multigenic System.** (1974) *Immunochemistry*, 153-188. *Proceedings of The Robert A. Welch Foundation Conferences on Chemical Research XVIII, Houston, Texas.*
 16. Hood L, Campbell J, Elgin S. (1975) **The Organization, Expression and Evolution of Antibody Genes and Other Multigene Families.** *Annual Review of Genetics* 9:305-353.
 17. Hood L. (1976) **Antibody Genes and Other Multigene Families.** *Federation Proceedings* 35:2158-2167.
 18. Silver J, Hood L. (1976) **Preliminary Amino Acid Sequences of Transplantation Antigens: Genetic and Evolutionary Implications.** *Contemporary Topics in Molecular Immunology* 5:35-68.
 19. Hood L, Silver J. (1976) **The Structure and Evolution of Transplantation Antigens.** *Mosback Colloquium 27: The Immune System*, 220-234. Eds. F. Melchers and K. Rajewsky.
 20. Hood L, Kronenberg M, Early P, Johnson M. (1977) **Nucleic Acid Chemistry and the Antibody Problem.** *Immune System: Genetics and Regulation* 1-27. Eds. E. E. Sercarz, L. A. Herzenberg and C. F. Fox. Academic Press, New York, San Francisco, London.
 21. Hood L, Huang H, Dreyer WJ. (1977) **The Area-Code Hypothesis: The Immune System Provides Clues to Understanding the Genetic and Molecular Basis of Cell Recognition During Development.** *Journal of Supramolecular Structure* 7:531-559.
 22. Hood L. (1977) **The Evolution of Multigene Families.** *Adv. Pathobiol.* 6. *Cancer Biology. IV. Differentiation and Carcinogenesis*, 51-67. Eds. C. Borek, C. M. Fenoglio and D. W. King. Stratton Intercontinental Medical Book Corp., New York, New York.
 23. Hood LE. (1978) **Antibody Molecules and Antibody Genes.** *Clinical Immunochemistry*, 67-74. Eds S, Natelson AJ Pesce, Dietz AA. The American Association for Clinical Chemistry, Inc., Washington, DC.
 24. Hood L. (1979) **Cancer, Disease, and Immunity.** *Engineering and Science* 42:6-12.
 25. Hood L, Schilling J, Hansburg D, Davie JM. (1979) **Antibody Diversity.** *B Lymphocytes in the Immune Response*, 173-180. Eds. M. Cooper, D. Mosier, G. Scher and E. S. Vitetta. Elsevier North-Holland, Inc.
 26. Hood L. (1979) **Antibodies: Diversity and Genes.** *The Chemistry and Physiology of the Human Plasma Proteins*, 49-58. Ed. D. Bing. Pergamon Press, New York, New York.
 27. Hood L, Schilling J. (1980) **Rearrangements of an Alpha Immunoglobulin Heavy Chain Gene.**

- Membranes, Receptors, and the Immune Response*, 371-380. Eds. E. P. Cohen and H. Köhler. Alan R. Liss, Inc., New York.
28. Clevinger B, Schilling J, Griffith R, Hansburg D, Hood L, Davie J. **(1980) Antibody Diversity Patterns and Structure of Idiotypic Determinants on Murine Anti-Dextran Antibodies.** *Monoclonal Antibodies*, 37-48. Eds. R. H. Kennett, T. J. McKearn and K. B. Bechtol. Plenum Press, New York and London.
 29. Davis MM, Kim SKM, Hood L. **(1980) Immunoglobulin Class Switching: Developmentally Regulated DNA Rearrangements During Differentiation.** *Cell (Minireview)* 22:1-2.
 30. Hood L, Early P. **(1980) Organization and Rearrangements of Heavy Chain Variable Region Genes.** *Immunoglobulin Genes and B Cell Differentiation, Developments in Immunology*, 12:7-15. Eds. J. R. Battisto and K. L. Knight. Elsevier North-Holland, Inc., New York.
 31. Johnson N, Douglas R, Hood L. **(1981) Nucleic Acid Rearrangements in the Differentiation of Mouse B Cells.** *B Lymphocytes in the Immune Response: Functional, Developmental, and Interactive Properties*, 3-17, Eds. Klinman, Mosier, Scher and Vitetta. Elsevier North-Holland, Inc.
 32. Early P, Hood L. **(1981) Mouse Immunoglobulin Genes.** *Genetic Engineering*, 3:157-188. Eds. J. K. Setlow and A. Hollaender. Plenum Publishing Corp., New York, New York.
 33. Huang H, Crews S, Hood L. **(1981) The Arrangement, Rearrangement, and Diversification of Antibody Genes.** *Frontiers in Immunogenetics*, 63-74. Ed. W. H. Hildemann. Elsevier North-Holland, Inc., New York, New York.
 34. Huang H, Crews S, Hood L. **(1981) Diversification of Antibody Genes Through DNA Rearrangements.** *Advances in Experimental Medicine and Biology* 137, *The Ruminant Immune System*, 475-488. Ed. John E. Butler. Plenum Press, New York and London.
 35. Hood L, Hunkapiller M, Hewick R, Giffin C, Dreyer WJ. **(1981) Microchemical Instrumentation. ICN-UCLA Symposium.** *Journal of Supramolecular Structure and Cellular Biochemistry* 17:27-36.
 36. Clevinger B, Thomas J, Davie J, Schilling J, Bond M, Hood L, Kearney J. **(1981) Anti-Dextran Antibodies: Sequences and Idiotypes. Immunoglobulin Idiotypes. XX, ICN-UCLA Symposia on Molecular and Cellular Biology, 159-168. Eds. C. Janeway, E. E. Sercarz, H. Wigzell and C. Fred Fox. Academic Press, New York.**
 37. Hood, L. **(1982) Antibody Genes: Arrangements and Rearrangements.** *Molecular Genetic Neuroscience, Chap. 7*, 75-82. Eds. F. O. Schmitt, S. J. Bird and F. E. Bloom. Raven Press, New York.
 38. Hood L, Steinmetz M, Goodenow R. **(1982) Genes of the Major Histocompatibility Complex.** *Cell (Minireview)* 28:685-687.
 39. Hunkapiller T, Huang H, Hood L, Campbell J. **(1982) The Impact of Modern Genetics on Evolutionary Theory.** *Perspectives on Evolution*, 164-189. Ed. Roger Milkman. Sinauer Associates, Inc., Sunderland, Massachusetts.
 40. Huang H, Hood L. **(1982) The Expression of Antibody Genes.** *Advances in Comparative Leukemia Research* 1981, 169-172. Eds. D. S. Yohn and J. R. Blakeslee. Elsevier Biomedical, New York.
 41. Hood LE, **(1982) Diversifying Our Defenses.** *Science Year* 1983, 156-167. World Book, Inc., Chicago, Illinois.
 42. Hunkapiller M, Hewick RM, Dreyer WJ, Hood LE. **(1982) A New Protein Microsequenator Using Gas Phase Edman Reagents.** *Proceedings of IVth International Conference on Methods in Protein Sequence Analysis*, 77-90. The Humana Press Inc., Clifton, New Jersey.
 43. Hunkapiller MW, Hood LE. **(1983) Protein Sequence Analysis: Automated Microsequencing.** *Science* 219:650-659.
 44. Hood L, Steinmetz M, Malissen B. **(1983) Genes of the Major Histocompatibility Complex of the Mouse.** *Ann. Rev. Immunol.* 1:529-568.
 45. Hood L, Hunkapiller M. **(1983) Biotechnology and Medicine of the Future.** *Engineering and Science* 46:6-13.
 46. Hood LE, Hunkapiller T, Kraig E. **(1983) Strategies for Gene Organization and Information Expression.** *Modern Cell Biology* 2:305-328. Ed. J. R. McIntosh. Alan R. Liss, Inc., New York.

47. Kobori JA, Steinmetz M, McNicholas J, Malissen M, Winoto A, Wake C, Long E, Mach B, Frelinger J, Hood L. **(1983) Isolation and Characterization of I Region Genes from the Major Histocompatibility Complex of the Mouse.** *Ir Genes: Past, Present and Future*, 209-215. Eds. C. W. Pierce, S. E. Cullen, J. A. Kapp, B. D. Schwartz and D. C. Shreffler. The Humana Press, Clifton, New Jersey.
48. Hood, L. and M. Steinmetz. **(1983) Class II Genes of the Major Histocompatibility Complex in Mice.** *Humoral Factors in Host Defense*, 337-342. *Proceedings of the First Takeda Science Foundation Symposium.* Academic Press Japan Inc., Tokyo.
49. Hunkapiller MW, Hood LE. **(1983) Microsequencing of Proteins by Gas Phase Edman Degradation.** *Frontiers in Biochemical and Biophysical Studies of Proteins and Membranes*, 23-36. Eds. T.-Y. Liu, S. Sakakibara, A. Schechter, K. Yagi, H. Yajima and K. T. Yasunobu. Elsevier Science Publishing Co., Inc., New York.
50. Hood L, Steinmetz M. **(1983) Class II Genes of the Major Histocompatibility Complex in Mice.** *Intercellular Communication in Leucocyte Function*, 351-357. Eds. J. W. Parker and R. L. O'Brien. John Wiley & Sons Ltd., Chichester, England.
51. Steinmetz M, Hood L. **(1983) Genes of the Major Histocompatibility Complex in Mouse and Man.** *Science* 222:727-733.
52. Hood L, Fisher D, Goodenow R, Goverman J, Hunkapiller M, Hunt S, Kobori J, Malissen B, Malissen M, Sher BT, Smith L, Stroynowski I, Sun H, Winoto A, Zuniga M. **(1983) MHC Genes of the Mouse.** *Progress in Immunology V*, 223-234. Eds. Y. Yamamura and T. Tada. Academic Press Japan, Inc.
53. Ellison JW, Hood LE. **(1983) Human Antibody Genes: Evolutionary and Molecular Genetic Perspectives.** *Adv. Human Genet.* 13:113-147.
54. Perlmutter RM, Crews ST, Klotz J, Livant D, Siu J, Hood L. **(1984) Molecular Genetics of Anti-Carbohydrate Antibodies.** *Annals Immunol. (Inst. Pasteur)* 135 C:83-88.
55. Kronenberg M, Kraig E, Hood L. **(1983) Finding the T-Cell Antigen Receptor: Past Attempts and Future Promise.** *Cell (Minireview)* 34:327-329.
56. Hood LE. **(1984) Tools of Genetic Manipulation.** *Genetic Control of Environmental Pollutants* 28, 301-317. Eds. G. S. Omenn and A. Hollaender. Plenum Press, New York.
57. Steinmetz M, Hood L. **(1984) Molecular Immunology: Genes of the Major Histocompatibility Complex of the Mouse.** *Immunogenetics.* 260-295, Eds. C. S. David and G. S. Panayi. Butterworths and Co., London.
58. Kent SB, Hood LE, Beilan H, Marriot M, Meister S, Geiser T. **(1984) A Novel Approach to Automated Peptide Synthesis Based on New Insights into Solid Phase Chemistry.** *Peptide Chemistry 1984, Proceedings of the Japanese Peptide Symposium*, 217-222. Ed. N. Isymiya, Protein Research Foundation, Osaka.
59. Perlmutter RM, Crews ST, Douglas R, Sorensen G, Johnson N, Nivera N, Gearhart PJ, Hood L. **(1984) The Generation of Diversity in Phosphorylcholine-Binding Antibodies.** *Advances in Immunology* 35:1-37.
60. Hood L, Kronenberg M, Hunkapiller T. **(1985) T-Cell Antigen Receptors and the Immunoglobulin Supergene Family.** *Cell* 40:225-229.
61. Smith L, Steinmetz M, Hood L. **(1985) The Major Histocompatibility Complex of the Mouse.** *Handbook of Experimental Immunology, 4th Edition*, Eds. D. M Weir, L. A. Herzenberg, C. C. Blackwell and L. A. Herzenberg. Blackwell Scientific Publications Ltd., Edinburgh.
62. Kronenberg M, Siu G, Hood LE, Shastri N. **(1986) The Molecular Genetics of the T-Cell Antigen Receptor and T-Cell Antigen Recognition.** *Ann. Rev. Immunol.* 4:529-591.
63. Shastri N, Kobori J, Munt D, Hood L. **(1986) Diversity of T-Cell Receptor Structures Specific for Minimal Peptide/Ia Determinants: Implications for Immune Response Gene Defects.** *Regulation of Immune Gene Expression*, 167-176, Eds. M. Feldmann and A. McMichael, Humana Press, Clifton, New Jersey.
64. Schrader JW, Clark-Lewis I, Ziltener HJ, Hood LE, Kent SBH. **(1986) In vivo Activity of a Chemically Synthesized Hemopoietic Growth Factor, Panspecific Hemopoietin (IL-3).** *Immune Regulation by Characterized Polypeptides 41, New Series*, Eds. G. Goldstein, J.-F. Bach and H. Wigzell, UCLA Symposia on Molecular and Cellular Biology. Alan R. Liss, New York.

65. Tempst P, Hood LE, Kent SBH. **(1987) Practical High Performance Liquid Chromatography of Proteins and Peptides.** *Modern Methods of Plant Analysis* 5:170-208, *New Series*, Eds. H. F. Linskens and J. F. Jackson. Springer-Verlag, Heidelberg.
66. Hood LE, Hunkapiller MW, Smith LM. **(1987) Automated DNA Sequencing and Analysis of the Human Genome.** *Genomics* 1:202-212.
67. Smith L, Hood L. **(1987) Mapping and Sequencing the Human Genome: How to Proceed.** *BioTechnology* 5:933-939.
68. Schrader JW, Clark-Lewis I, Fazekas B, Hood LE, Kent SBH, Leslie KB, Schrader S, Ziltener, HJ. **(1987) Structure and Function of the Panspecific Hemopoietin Interleukin-3. Integration and Control of Metabolic Processes: Pure and Applied Aspects,** 211-219. Ed. O. L. Lon, Cambridge University Press, Cambridge, U. K.
69. Clark-Lewis I, Lopez AF, Vadas M, Schrader JW, Hood L, Kent SBH. **(1987) Chemical Synthesis of Hemopoietic Growth Factors: An Approach to Protein Design.** *Protein Structure and Design*, 417-421. Ed. D. Oxender, *UCLA Symposia on Molecular and Cellular Biology, New Series, Volume 69*, Alan R. Liss, Inc., New York.
70. Soloski M, Einhorn G, Hood L, Stroynowski I. **(1987) Biochemical and Molecular Characterization of Qa Region Gene Products.** *H-2 Antigens*, 233-244. Ed. C. S. David, Plenum Press, New York, NY.
71. Hood L. **(1988) The Role of Chemistry.** *The Impact of Chemistry on Biotechnology*, 2-10. Eds. M. Phillips, S. P. Shoemaker, R. D. Middlekauff, and M. Ottenbrite. American Chemical Society, Washington, DC.
72. Kumar V, Kono DH, Urban JL, Hood L. **(1989) The T-Cell Receptor Repertoire and Autoimmune Diseases.** *Ann. Rev. Immunol.* 7, 657-682, 1989.
73. Urban JL, Horvath SJ, Hood L. **Autoimmune T Cells: Immune Recognition of Normal and Variant Peptide Epitopes and Peptide-Based Therapy.** *Cell* 59:257-271.
74. Landegren U, Kaiser R, Hood L. **(1990) Oligonucleotide Ligation Assay. PCR Protocols. A Guide to Methods and Applications,** 92-98. Eds. M. A. Innis, D. H. Gelfand, J. J. Sninsky, and T. J. White. Academic Press, San Diego, CA.
75. Cantor CR, Caskey CT, Hood LE, Kamely D, Omenn GS. **(1990) Biotechnology and Human Genetic Predisposition to Disease.** *Proceedings of a UCLA Symposium Held at Steamboat Springs, Colorado*, 1989, Wiley-Liss.
76. Hood L. **(1990) Immunology in the 21st Century.** *Vision and Values for Pharmaceutical Innovation*, 77-104. C. Mitchell, ed., ALZA Corporation, Palo Alto, California.
77. Hood L, Aebersold R, Harrington M, Hunkapiller T, Kaiser R, Kent SB, Landegren U, and Nika H. **(1988) Protein Chemistry and the Biotechnology of the Future.** *Methods in Protein Sequence Analysis. Proceedings of the 7th International Conference, Berlin.*
78. Hood L. **(1992) The Human Genome Project: Biology's Blockbuster.** *The World in 1993*, 143-144. D. Fishburn, ed., The Economist Publications Ltd.
79. Hood L. **(1992) Speculations About Future Humans.** *Engineering and Science*, Spring.
80. Hood L. **(1993) The Interdisciplinary Challenge.** *Bio/Technology* 11:S9.
81. Venter JC, Smith H, Hood L. **(1996) A New Strategy for Genome Sequencing.** *Nature* 381:364.
82. Roach JC, Siegel AF, van den Engh G, Trask B, Hood L. **(1999) Gaps in the Human Genome Project.** *Nature* 401:843-845.
83. Aebersold R, Hood LE, Watts JD. **(2000) Equipping Scientists for the New Biology.** *Nature BioTechnology* 18:359.
84. Aderem A, Hood L. **(2001) Immunology in the Post-Genomic Era.** *Nature Immunology* 2:1-3.
85. Hood L. **(2001) Computing Life: The Challenge Ahead.** *IEEE Engineering in Medicine and Biology: Genomes, Man and Machines* 20:20.
86. DasSarma S, Kennedy SP, Berquist B, Ng WV, Baliga NS, Spudich JL, Krebs MP, Eisen JA, Johnson CH, Hood L. **(2001) Genomic Perspective on the Photobiology of Halobacterium Species NRC-1, a Phototrophic, Phototactic, and UV-Tolerant Haloarchaeon.** *Photosynthesis Research* 70:3-17.
87. Heath JR, Phelps ME, Hood L. **(2003) NanoSystems Biology.** *Journal of Molecular Imaging and Biology* 5:312-325.

88. Hood L, Perlmutter RM. (2004) **The Impact of Systems Approaches on Biological Problems in Drug Discovery.** *Nature Biotechnology* 22:1215-1217.
89. Rowen L, Hood L. (2006) **Systems Biology's Promises and Challenges.** *Asia Pacific Biotech News* 10:151-154.
90. Auffrey C, Chen Z, Hood L. (2009) **Systems medicine: the future of medical genomics and healthcare.,** *Genome Medicine:* 11-20.

F. Papers In Press or Submitted

1. Song Y, Zhang Q, Bash R, Kutlu B, Yin C, Gilbert D, Wang S, Yang C.Y, Bullitt E, Kafri T, McCarthy K.D, Louis D.N, Difilippantonio S, Hood L, Miller R.C, Van Dyke T **An Evolutionary Path to Glioblastoma: Insight into Etiology and Opportunities for Translational Impact.** Manuscript submitted to *Cancer Discovery* (In revision, 2011)
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, Gareth Williams, Jesper Balk, Davy Rockx, Hong Li, Martin Rooimans, Anneke Oostra, Eunike Velleuer, Ralf Dietrich, Onno Bleijerveld, Maarten Altelaar, Hanne Meijers-Heijboer, Hans Joenje, Gustavo Glusman, Jared Roach, Leroy (Lee) Hood, David Galas, Claire Wyman, Rudi Balling, Johan den dunnen, Johan De Winter, Roland Kanaar, Richard Gelinas, and Josephine Dorsman [Paper #NCOMMS-15-09982B] **A novel Fanconi anemia subtype associated with a dominant-negative mutation in RAD51 – In Press**
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*
6. Price, N.D.*, Magis, A.T., Earls, J.C., Glusman, G., Levy, R., Lausted, C., McDonald, D.T., Kusebauch, U., Moss, C.L., Zhou, Y., Qin, S., Moritz, R.L., Brogaard, K., Omenn, G.S., Lovejoy, L.C., and Hood, L.*, **Mining dense, dynamic, personal data clouds of 108 humans over 9 months.** *Nature Biotechnology*, (Accepted, 2017). *Co-corresponding authors.
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)