

## CURRICULUM VITAE

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**Education:** B.A. magna cum laude, Haverford College, Biology and Russian, 1974.  
  
Ph.D., The Johns Hopkins University School of Medicine, Molecular Biology, 1981.  
  
M.D., The Johns Hopkins University School of Medicine, 1981.  
  
Postdoctoral Fellow, The Massachusetts Institute of Technology, 1981-1984.

**Honors:** Phi Beta Kappa, 1973.  
  
Scholar of the Insurance Medical Scientist Scholarship Fund, 1979-1981.  
  
Michael A. Shanoff Research Award, The Johns Hopkins University School of Medicine, 1980.  
  
Alpha Omega Alpha, 1981.  
  
Fellow of the Jane Coffin Childs Memorial Fund for Medical Research, 1981-1984.  
  
Professors' Award for Excellence in Teaching, The Johns Hopkins University School of Medicine, 1993  
  
American Society for Clinical Investigation, Elected 1996  
  
The Henry Kunkel Society, Elected 1999

### **Research and Professional Experience:**

2003-present	Director, Institute for Basic Biomedical Sciences, The Johns Hopkins University School of Medicine, Baltimore, MD
2002 – present	Director, Immunobiology Program, Institute for Cell Engineering, The Johns Hopkins University School of Medicine, Baltimore, MD.
2000 – 2004	Investigator, Howard Hughes Medical Institute
1995 - present	Professor, Department of Molecular Biology and Genetics, The Johns Hopkins University School of Medicine, Baltimore, MD.
1992 - 1999	Director, M.D.-Ph.D. Program, The Johns Hopkins University School of Medicine, Baltimore, MD.
1991 - 2000	Associate Investigator, Howard Hughes Medical Institute.
1990 - 1995	Associate Professor, Department of Molecular Biology and Genetics, The Johns Hopkins University School of Medicine, Baltimore, MD.
1984 - 1990	Assistant Professor, Department of Molecular Biology and Genetics, The Johns Hopkins University School of Medicine, Baltimore, MD.
1985 - 1991	Assistant Investigator, Howard Hughes Medical Institute.
1984 - 1985	Associate, Howard Hughes Medical Institute.
1981 - 1984	Postdoctoral fellow, Center for Cancer Research, Massachusetts Institute of Technology, Cambridge, Massachusetts
1976 - 1981	Graduate Student, Program in Biochemistry, Cellular and Molecular Biology, The Johns Hopkins University School of Medicine, Baltimore, Maryland.

### **Professional Societies:**

American Society for Clinical Investigation

American Society for Biochemistry and Molecular Biology

American Association for the Advancement of Science

Henry G. Kunkel Society

## Clinical Immunology Society

### **Extramural Service:**

- 1990 – 1992 Member *Ad Hoc*, Allergy and Immunology Study Section, National Institutes of Health
- 1991 Member *Ad Hoc*, Molecular Biology Study Section, American Cancer Society
- 1993-1996 Member, Allergy and Immunology Study Section, National Institutes of Health
- 2003 Invited Participant, Strategic Concepts for Biodefense, Center for Civilian Biodefense Strategies and Defense Science Board
- 2005 Invited Participant, International Conference on Biosafety and Biosecurity, sponsored by the World Health Organization and the Center for Biosecurity
- 2007 - Editorial Board, Journal of Molecular Medicine
- 2007 - Board, European Genetics Foundation, Bologna, Italy
- 2007 - Member, Life Sciences Advisory Board, State of Maryland
- 2009 - Member, Advisory Committee, Leder Human Biology Program, Harvard Medical School
- 2010 Member, Quadrennial Review and Site Visit Committee, NHGRI Genetic Disease Research Branch
- 2010 Member, Nanobiotechnology Task Force, State of Maryland
- 2011 Reviewer, National Institute on Aging, Board of Scientific Counselors

### **Selected Invited Talks, 1994 - present:**

- 1994 Organizer, Mid-Atlantic Immunobiology Conference, Signal Transduction Session
- 1994 Speaker, EMBO Workshop on “Lymphocyte Neoplasia and DNA Rearrangements in the Immune System”
- 1994 Seminar, University of Alabama at Birmingham
- 1994 Seminar, The Wistar Institute
- 1994 Seminar, Onyx Pharmaceuticals, Richmond CA
- 1994 Seminar, Massachusetts General Hospital Cancer Center
- 1994 Seminar, Merck Research Laboratories

- 1994 Seminar Asthma and Allergy Center, Johns Hopkins Bayview
- 1995 Speaker, 6<sup>th</sup> International Center for BioTechnology Symposium on Cytoplasmic Protein-tyrosine Kinases, Stockholm, Sweden
- 1995 Seminar, Institut Cochin de Genetique Moleculaire, Paris, France
- 1995 Seminar, Department of Pharmacology, Johns Hopkins School of Medicine
- 1995 Seminar, Cornell Medical Center
- 1996 Speaker, Workshop “Signal Transduction by Antigen Receptors and Coreceptors” for the Keystone Symposium, “Lymphocyte Activation”
- 1996 Speaker, FASEB Summer Research Conference, “Fc Receptors: Focusing on Fc receptors as a member of MIRR”
- 1996 Speaker, INSERM Laudet Conference, “V(D)J Recombination and Other Models of DNA Repair and Mutagenesis”, Aix-les-Bains, France
- 1996 Seminar, Morehouse College
- 1996 Seminar, Mount Sinai Cancer Center
- 1997 Speaker, CSHL Meeting, “Biology of Proteolysis”
- 1997 Seminar, La Jolla Institute for Allergy and Immunology, San Diego CA
- 1997 Seminar, The Babraham Institute, Cambridge UK
- 1998 Chair, V(D)J Recombination Session, International Congress of Immunology, New Delhi, India
- 1998 Speaker, Workshop on V(D)J Recombination at the Keystone Symposium, “B Lymphocyte Biology and Disease”
- 1998 Seminar, Georgetown University School of Medicine
- 1998 Seminar, Tufts University School of Medicine
- 1998 Seminar, Princeton University, Department of Molecular Biology
- 1998 Seminar, University of Maryland, College Park, Department of Microbiology
- 1998 Dean’s Lecture, Johns Hopkins School of Medicine
- 1998 Seminar, NIH, National Institute of Child Health and Human Development
- 1998 Seminar, Inst. Cellular & Molecular Biology, University of Texas at Austin
- 1999 Speaker, Leukemia Society of American 1999 Stohlman Scholar Symposium
- 1999 Seminar, University of Toronto, Department of Immunology
- 1999 Seminar, William & Mary College, Department of Biology
- 1999 MD/PhD Seminar, University of California, Irvine
- 1999 Seminar, The Pennsylvania State University, Dept. Microbiology & Immunology
- 1999 Seminar, University of Virginia, Dept. Microbiology & Pediatrics
- 1999 Seminar, Albert Einstein College of Medicine
- 1999 Seminar, University of Chicago, Immunology Seminar Series
- 2000 Speaker, Keystone Symposium, “Transposition and Other Genome Rearrangements”
- 2000 Speaker, Salk Institute, James S. McDonnell Foundation Panel Meeting on Cognitive, Neural, and Genetic bases of Social Behavior
- 2000 Seminar, University of Chicago, Immunology Seminar Series
- 2000 Seminar, UIC, Department of Microbiology & Immunology, Chicago
- 2001 Speaker, Workshop on Autoimmunity and Lymphoma, sponsored by the Leukemia and Lymphoma Society
- 2001 Speaker, The Maryland Arthritis Research Center Meeting
- 2001 Speaker, 11th International Congress of Immunology, Workshop 1.7, “Rearrangement of antigen receptor genes”
- 2001 CSHL Meeting, “Integrating Genome Sequence, Sequence Variation & Gene Expression” (talk presented by postdoctoral fellow, Joo-Yeon Yoo)

- 2001 Seminar, Hyseq Inc., Sunnyvale CA
- 2001 Seminar, University of Maryland College Park, Department of Biochemistry
- 2001 Seminar, North Shore – LIJ Research Institute
- 2001 Seminar, Johns Hopkins Singapore Biomedical Center
- 2002 Speaker, Medical Library Association Informationist Conference
- 2002 Co-chair session on Germinal Center Reaction, New York Academy of Sciences Conference “Immune Mechanisms and Disease”, Grenada
- 2002 History of Immunology Workshop, Center for History of Recent Science, The George Washington University
- 2002 Keystone Symposium “JAKs and STATs: Activation and Biologic Impact” (talk presented by postdoctoral fellow, Joo-Yeon Yoo)
- 2002 Seminar, Johns Hopkins School of Medicine, Department of Pharmacology & Molecular Sciences
- 2002 Speaker, Tom Garrard Lectureship, Oklahoma Medical Research Foundation
- 2003 Seminar, University of Toronto
- 2003 American Association of Immunologists 90<sup>th</sup> Annual Meeting (talk presented by postdoctoral fellow, Theresa Tretter)
- 2003 Invited Participant, “A Conference to Analyze Humoral Rejection in Solid Organ Transplantation”, National Kidney Foundation
- 2003 Speaker, Federation of Clinical Immunology Societies 3<sup>rd</sup> Annual Meeting, Paris, France
- 2003 Speaker, Fifth Johns Hopkins Autoimmunity Day, Johns Hopkins University
- 2003 Speaker and Workshop Chair, FASEB Summer Research Conference, “Lymphocytes and the Immune System: Molecular, Cellular and Integrative Mechanisms,” Tucson, AZ
- 2003 “Lymphopoiesis II” Symposium, University of Alabama at Birmingham
- 2003 Seminar, Johns Hopkins School of Medicine, Department of Gastroenterology
- 2004 Seminar, SUNY-Downstate Medical Center
- 2004 Seminar, Du Pont Nemours Foundation
- 2004 Seminar, Haverford College
- 2004 Seminar, CBR Institute for Biomedical Research, Harvard Medical School
- 2004 Seminar, University of Toronto
- 2005 Co-organizer FASEB, Summer Research Conference, “Lymphocytes and the Immune System: Molecular, Cellular and Integrative Mechanisms,” Tucson, AZ
- 2005 Seminar, University of Florida
- 2005 Seminar, NIA/NIH
- 2006 Seminar, Johns Hopkins University, Department of Biology
- 2006 Seminar, Pohang University of Science and Technology, Pohang, Korea
- 2006 Seminar, Institut de Recerca Biomedica – IRB, Barcelona, Spain
- 2006 Speaker, 20<sup>th</sup> IUBMB Congress, Kyoto, Japan
- 2006 Seminar, CBR Institute for Biomedical Research, Harvard Medical School
- 2006 Seminar, University of Bologna, Italy
- 2007 Seminar, NIH Immunology Interest Group, Bethesda, MD
- 2007 Seminar, University of Michigan
- 2007 Organizer, FASEB Summer Research Conference, “Lymphocytes and the Immune System: Molecular, Cellular and Integrative Mechanisms,” Tucson, AZ
- 2008 Seminar, Carnegie Institution of Washington
- 2008 Speaker, Baltimore Area Repair Symposium
- 2008 Speaker, 21<sup>st</sup> Course in Medical Genetics, Bertinoro, Italy
- 2009 Seminar, New York University, School of Medicine

- 2009 Seminar, BIO, Washington, DC
- 2009 Faculty, International Workshop on Genetics, Medical Technologies and Health Policies, European Genetics Foundation and Johns Hopkins SAIS, Bologna, Italy
- 2009 Participant, Workshop on Systems Biology, US Defense Threat Reduction Agency and Center for Biosecurity, University of Pittsburgh Medical Center
- 2009 Speaker, FASEB Summer Research Conference, “Molecular Mechanisms of Lymphocyte Differentiation,” Carefree, AZ
- 2009 Speaker, Asthma and Allergy Center Seminar Series, Johns Hopkins University
- 2009 Seminar, Shanghai Medical College of Fudan University, Shanghai, China
- 2010 Speaker, “Inflammation and Cancer: International Symposium on Current Insights into Prevalent Diseases,” Pohang, South Korea
- 2010 Speaker, Autoimmunity Day, Johns Hopkins University
- 2011 Seminar, Garvan Institute for Medical Research, Sydney, Australia
- 2011 Speaker and Session Chair, FASEB Summer Research Conference, “Molecular Mechanisms of Immune Cell Development and Function,” Snowmass, CO
- 2011 Seminar, University of Miami School of Medicine, Miami, FL
- 2011 Speaker, Grand Rounds in Pathology, Johns Hopkins University
- 2011 Panelist, Global CONNECT Summit, “Role of Academic Research Institutions in the Innovation Ecosystem,” La Jolla, CA