

CURRICULUM VITAE

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Date of Birth: April 2, 1956
Oakland, California

Education: California State University, Chico
Chico, California
B.A., Biological Sciences, 1974-1978

University of California, Los Angeles
Los Angeles, California
Ph.D., Immunology, 1979-1983

Professional Background: **Research Biologist**
National Institutes of Health, Bethesda, Maryland
Metabolism Branch
September, 1978 - July, 1979

Postdoctoral Fellow
University of California, Los Angeles
Department of Neurology
U.C.L.A. School of Medicine
October, 1983 - June, 1986

Research Assistant Professor
Department of Neurology
University of Alabama at Birmingham
July, 1986 - October, 1988

Member, Graduate Faculty
Graduate Study in Cellular and Molecular Biology
Graduate Study in Neuroscience
Graduate Study in Cell Biology
University of Alabama at Birmingham
1987 - present

Senior Scientist
Center for AIDS Research
University of Alabama at Birmingham
1988-

Assistant Professor
Departments of Neurology and Cell Biology
University of Alabama at Birmingham
October, 1988 - May, 1992

Associate Professor

Department of Cell Biology
University of Alabama at Birmingham
June, 1992-1995

Senior Scientist

UAB Arthritis Center
1993-

Professor

Departments of Cell Biology, Physiology and Biophysics, Neurology, and
Neurobiology
University of Alabama at Birmingham
1995-

Director, Graduate Program

Department of Cell Biology
University of Alabama at Birmingham
1995-2000

Vice-Chairman

Department of Cell Biology
University of Alabama at Birmingham
1997-2000

Associate Dean for Postdoctoral Education

Graduate School
University of Alabama at Birmingham
1999-2001

Chair, Department of Cell Biology
University of Alabama at Birmingham
November 2000-

Co-Director, HHMI Med-Grad Fellowship Program
University of Alabama at Birmingham
May 2006-

Associate Director, Basic Science
Comprehensive Cancer Center
University of Alabama at Birmingham
September 2006-

Professional Societies:

American Association for University Women, 1985-
American Association for the Advancement of Science, 1985-
New York Academy of Sciences, 1986-
International Society of Neuroimmunology, 1988-
Elected to the International Advisory Committee of the International Society of
Neuroimmunology, 1995-
American Society for Neurochemistry, 1989-
Clinical Immunology Society, 1989-
Member, Membership Committee, 1999-
Member, Publications Committee, 1999-
Chair, Publications Committee, 2000-
American Association of Immunologists, 1990-

Member, AAI Status of Women Council, 1999-2002
American Society for Microbiology, 1993-
Association of American Medical Colleges: Graduate Research, Education
and Training (GREAT), 1999-
Society for Neuroscience, 2000-
International Society for Neuroimmunomodulation, 2000-
American Association of Anatomists, 2001-
American Society of Cell Biology, 2001-
Association of Anatomy, Cell Biology, Neurobiology Chairpersons, 2001-
American Society for Biochemistry and Molecular Biology, 2003-
Society for Neuro-Oncology, 2006-
Society for Interferon Research, 2006-

Journal Responsibilities:

Editorial Boards:

Journal of Neuroimmunology, 1991-2006
Developmental Neuroscience, 1993-2006
Associate Editor: Journal of Immunology, 1994-1995
Section Editor: Journal of Immunology, 1995-1999
GLIA, 1996-2006
Journal of Neuroscience, 2001-
Stroke, 2001-2004
Journal of Biological Chemistry, 2003-
Journal of Neurovirology, 2004-

Ad Hoc Reviewer for the following Journals:

Journal of Cellular Physiology
Journal of Neuropathology and Experimental Neurology
Gene
Brain Research
American Journal of Physiology: Cell Physiology
Infection and Immunity
Cancer Research
Proceedings National Academy of Science, USA
Oncogene
Annals of Neurology
FASEB Journal
Neuroscience Letters
Journal of Leukocyte Biology
Journal of Clinical Investigation
Journal of Immunology
Molecular Immunology
Nature Medicine
Journal of Virology
Journal of Neurovirology
American Journal of Pathology
Nature Neuroscience
BLOOD

Peer Review Panels:

NIH Site Visit: AIDS Dementia Complex Program Project, 1988
Ad Hoc Reviewer, National Science Foundation, 1988, 1990, 1992
Member, Special Section for AIDS Dementia Complex Grants, NIH, 1988
Member, Special Section for AIDS and Related Research Review Group, NIH,
1988-1991
Ad Hoc Reviewer, National Multiple Sclerosis Society, 1989-Present
NIH Site Visit: AIDS Dementia Complex Program Project, 1989

Consultant, Veterans Administration Research Proposals, 1989-present
Member, Special Section for AIDS and Related Research Review Group (Neurology), NIH, 1990
 NIH Site Visit: Neurological Disorders Program Projects, 1990
 NIH Site Visit: Center for Demyelinating Diseases, 1991
Ad Hoc Member, Neurological Disorders Program Projects, Review Committee A, 1991
Ad Hoc Member, Experimental Immunology Section, 1992
Member, American Cancer Society: Advisory Committee for Cell Biology, 1992-1995
 NIH Site Visit: Demyelinating Diseases Program Project, 1992
Ad Hoc Reviewer, Spinal Cord Research Foundation, 1992 - present
Ad Hoc Reviewer, Wellcome Trust, 1993, 1994, 1998
Ad Hoc Reviewer, NIMH, NIA, 1993, 1994
 NIH Site Visit: AIDS Dementia Complex Program Project, 1993
Member, NIH Study Section, Neurosciences Program Project Review Committee B, 1993 - 1997
Chairman, NIH Study Section, Neurosciences Program Project Review Committee B, 1995 - 1997
Chairman, Special NIMH Study Section, 1995
Reviewer, Human Frontier Science Program, 1996
Chairman, Special NINDS Study Section, 1997
Reviewer, Comitato Promotore Telethon, 1997
External Advisory Board, Center for Neurovirology and Neuro-degenerative Disorders, University of Nebraska Medical Center, 1997-
Member, National Multiple Sclerosis Society Grant Review Committee, 1998 - 2003
Reviewer, Swiss National Science Foundation, 1998
Chairman, Special NINDS Study Section, 1998
Reviewer, DIR, NINDS, Board of Scientific Counselors, 1999
Member, NIH Study Section, Training Grant and Career Development Review Committee (NST), 1999 - 2002
Member, NIH Study Section, Clinical Neuroimmunology and Brain Tumors (CNBT), 2000 - 2004
Member, Sontag Foundation Scientific Advisory Board, 2003-
Reviewer, DIR, NIMH, Board of Scientific Counselors, 2003
Member, National Multiple Sclerosis Society, Research Programs Advisory Committee (RPAC), 2004 - 2010
Chairman, NIH Study Section, Clinical Neuroimmunology and Brain Tumors (CNBT), 2004 - 2006
Member, Oklahoma Medical Research Foundation (OMRF) Board of Scientific Visitors, 2004 - 2007
Member, Marian Kies Award Committee, American Society for Neurochemistry, 2004 - 2007
Member, Organizing Committee for North American Glial Group (NAGG), 2004 -
Member, Program Committee for 2005 and 2006 Meetings of the American Society for Neurochemistry, 2004 - 2006
Member, Review Committee for the Department of Molecular, Cell and Developmental Biology, Mt. Sinai School of Medicine, 2005

Honors and Awards:

NIH Predoctoral Training Grant
 Clinical and Fundamental Immunology
 1982 - 1983

NIH Postdoctoral Training Grant
Tumor Immunology
1984 - 1985

Basic Research Science Grant/Neuropsychiatric Institute
University of California, Los Angeles
1984 -1985

Stipend Award to attend Cold Spring Harbor Course:
Molecular Biology of the Nervous System
July 30 - August 11, 1985

Individual NIH Postdoctoral Training Grant
Behavior and Neurosciences Group, NINCD
1985 - 1986
Basic Research Science Grant/Neuropsychiatric Institute
University of California, Los Angeles
1985 - 1986

Postdoctoral Fellow
National Multiple Sclerosis Society
1986 - 1987

Nominee: Annual Teaching Award, 1992
University of Alabama at Birmingham

Committees:

Coordinator: Neuroimmunology Seminar Series, 1986-1995
Member: Graduate Studies in Neuroscience, 1989-
Member: Center for AIDS Research Program Development, 1989-
Member: Graduate Studies in Cell Biology, 1990-
Curriculum Committee: Molecular Neuroimmunology Training Grant, 1990-1995
Chair: Cell Biology Seminar Series, 1991- 1995
Member: Admissions Committee for CMB, 1993 -1995
Member: Admissions Committee for Neuroscience Program, 1993-1997
Member: UAB Committee on Faculty Policies and Procedures, 1994-1995
Member: Tenure Definition Committee, 1994-1995
Member: Medical Education Committee - Assessment Subcommittee, 1995-1997
Member: Accelerated Fast Track Undergraduate Program, 1995-
Member: External Advisory Committee; Department of Pathology, 1995-1997
Member: Graduate Council Advisory Committee, 1995-2000
Member: CMB Steering Committee, 1996-
Member: UAB School of Medicine Research Advisory Committee (MED/RAC), 1996-2000
Member: Strategic Planning Committee - Inflammation, 1996-1997
Member: Neuroscience Curriculum Review Committee, 1997-1998
Chair: School of Medicine Space Planning Committee, 1997-1998
Senator: Faculty Senate, 1998-2000
Member: Child Health Research Center Advisory Committee, 1997-
Member: Search Committee, Chair of Surgery, 1998-1999
Chair: Med-Rac Subcommittee on Space Planning, 2000-2001
Member: Distinguished Lecturer Nomination Committee, 2001
Member: Council for Postdoctoral Education (COPE), 2001-2003
Member: Search Committee, Chair of Neurology, 2001

Member: Breast SPORE Executive Committee, 2001-
Member: Research Advisory Group (RAG), 2002-
Member: Brain Tumor SPORE Executive Committee, 2002-
Member: Search Committee, Dean of Dentistry, 2003
Member: Search Committee, Dean of Medicine, Senior Vice-President for
Medicine, 2003-2004
Member: Pancreatic SPORE Executive Committee, 2003-
Member: SCCOR (Heart Failure) Executive Committee, 2004-
Member: Search Committee, Chair of Psychiatry, 2004-2005
Member: Committee on Institutional Setting, 2004
Co-Chair: UAB Strategic Planning Initiative, 2005-2006
Member: Committee on Promotion and Tenure, 2005-2006
Co-Chair: Development and Aging Strategic Planning Group, 2005
Member: Bridge Funding Committee, 2005-
Member: UAB Strategic Planning Implementation Committee, 2006-
Chair: Strategic Implementation Subcommittee on Graduate Education,
2006-
Member: UAB Strategic Implementation Committee on IMPACT Funding, 2006-
Member: Neuroscience Steering Committee, 2006-
Member: Search Committee, Chair of Biology, 2006-

Invited Presentations:

Invited Speaker, Workshop on Functional Consequences of Demyelination:
Effect of Cytokines on Glia
La Sapinière, Val-David, Quebec, Canada
June 1 - 5, 1988

Invited Speaker, National Cancer Institute, NIH: *Effect of Cytokines on
Astrocyte Gene Expression*
Bethesda, Maryland
December 6, 1988

Invited Speaker, American Society for Neurochemistry Workshop on
Neuroimmunomodulation: *Regulation of Gene Expression in Astrocytes by
Interferon- γ and Tumor Necrosis Factor- α*
Chicago, Illinois
March 4 - 6, 1989

Invited Speaker, Advances in Clinical Neuroimmunology:
Basic Tenets of Immunology for Neuroimmunology
University of Alabama at Birmingham, Birmingham, Alabama
March 10, 1989

Invited Speaker, Workshop on the Role of Astrocytes in Inflammatory
Demyelination: *Inflammatory Mediators as Stimuli - Interleukins*
Galveston, Texas
March 22 - 25, 1990

Invited Speaker, The Second Biennial Ray A. and Robert L. Kroc Symposium
in Neurology: *Cell Biology of the Oligodendrocyte*
University of Connecticut
June 1, 1990

Invited Speaker, Workshop on Mechanisms of Vascular and Tissue Damage in
Demyelinating Disease: *Cytokine Action on Oligodendrocytes and Astrocytes*
San Martino al Cimino, Italy

October 3 - 7, 1990

Invited Speaker, American Society for Neurochemistry Symposium: *Signaling, Regulation and Gene Regulation in Astrocytes*
Charleston, South Carolina
March 10-15, 1991

Invited Speaker, Ohio State University
Cytokine Regulation of MHC Class II and Tumor Necrosis Factor Gene Expression in Brain Cells
Columbus, Ohio
May 28, 1991

Invited Speaker, Workshop on *Neuro-AIDS: Drug Discovery and Development*, Organized by NIAID and DAIDS, NIH
Portland, Maine
July 22-25, 1991

Invited Speaker, Marine Biological Laboratory Course: *Pathogenesis of Neuroimmunologic Diseases*
Woods Hole, Massachusetts
August 18-30, 1991

Invited Speaker, University of North Carolina
Cytokine Regulation of Astrocyte Gene Expression and Function
Chapel Hill, North Carolina
September 19, 1991

Invited Speaker, Case Western Reserve University
Class II MHC Gene Expression in Brain Cells: Involvement of Intracellular Signaling Pathways and Novel Nuclear Factors
Cleveland, Ohio
November 18, 1991

Invited Speaker, Workshop on Neurological Consequences of Immune Dysregulation: *Lessons from HIV infection and Multiple Sclerosis: Cytokine Involvement in HIV/MS*
Sanibel Island, Florida
January 18-21, 1992

Invited Speaker, Altschul Symposia on Biology and Pathology of Astrocyte - Neuron Interaction: *Neuroimmune Network - Cytokines*
University of Saskatchewan, Saskatoon
May 20-24, 1992

Invited Speaker, Workshop on *CNS, Immune, Endocrine and Viral Interactions*, Organized by NIMH, NIH
Rockville, MD
July 27-29, 1992

Invited Speaker, Association for Research in Nervous and Mental Diseases (ARNMD) Symposium on HIV, AIDS and the Brain: *Cytokine Circuits in the Brain*
New York, New York
December 3-4, 1992

Invited Speaker Emory University Graduate Student Association Invitation,
Class II MHC Gene Expression in Glial Cells: Involvement of Multiple Signaling Pathways and Nuclear Factors
Atlanta, Georgia
April 14, 1993

Invited Speaker, American Association of Immunologists Minisymposium in
Neuroimmunology: *Intracellular Second Messengers Involved in Both Induction and Inhibition of TNF- α Expression by Astrocytes*
Denver, Colorado
May 21-25, 1993

Invited Speaker, 3rd Workshop on Neuro-AIDS, Organized by NIAID and DAIDS, NIH
Portland, Maine
August 16-18, 1993

Invited Speaker, Marine Biological Laboratory Course: Pathogenesis of Neuroimmunologic Diseases
Woods Hole, Massachusetts
August 15-29, 1993

Invited Speaker, NMSS, Mid-South Chapter
Annual Meeting, Memphis, Tennessee
October 23, 1993

Invited Speaker, University of Iowa
Cytokine Circuits in the Central Nervous System
Cedar Rapids, Iowa
November 16-17, 1993

Invited Speaker, Louisiana State University
Cytokine Action on Glial Cells
New Orleans, Louisiana
March 24, 1994

Chair, Experimental Biology, 1994, APS Symposium, *Cytokine Mediated Signal Transduction Pathways: Effects on Cellular Gene Expression and Function*
Anaheim, California
April 24-29, 1994

Co-Chair, Experimental Biology, 1994, AAI Minisymposium, *Immune Mechanisms in Demyelinating Diseases*
Anaheim, California
April 24-29, 1994

Co-Chair, Experimental Biology, 1994, AAI Minisymposium, *Immune Regulation and Soluble Mediators of CNS Inflammation*
Anaheim, California
April 24-29, 1994

Invited Speaker, Cleveland Clinic Research Foundation
Cytokine Regulation of Gene Expression in Glial Cells
Cleveland, Ohio

May 11-12, 1994

Invited Speaker, Berlex Biosciences Symposium on Multiple Sclerosis
Richmond, California
June 10, 1994

Invited Speaker, NMSS 1994 Southern Area Conference
Charleston, South Carolina
June 27, 1994

Chair, International Society for Developmental Neuroscience Symposium,
Interactions Between the Immune and Nervous System
San Diego, California
July 30-August 4, 1994

Invited Speaker, Neurocrine
La Jolla, California
July 31, 1994

Invited Speaker, NMSS, Setenga Chapter
Research Update on MS
Chattanooga, Tennessee
October 4, 1994

Plenary Lecturer, *Cytokine Circuits in the CNS*
Fourth International Congress of Neuroimmunology
Amsterdam, The Netherlands
October 23-27, 1994

Invited Speaker, University of Tennessee
Memphis, Tennessee
March 3, 1995

Invited Speaker, University of Pennsylvania
Philadelphia, Pennsylvania
March 13-14, 1995

Invited Speaker, Specialty Laboratories
Santa Monica, California
July 20, 1995

Co-Chair, International Symposium on Clinical Immunology Neuroimmunology
Symposium, *Soluble Factors Regulating CNS Inflammation*
San Francisco, California
July 21-23, 1995

Invited Speaker, Maine Biological Laboratory Course: Pathogenesis of
Neuroimmunologic Disease
Woods Hole, Massachusetts
August 13-25, 1995

Plenary Lecturer, Impact of Glial Biology and Immunology on Multiple Sclerosis and Other Demyelinating Diseases
UCLA Neurobiology of Disease Conference
Los Angeles, California
November 8-10, 1995

Invited Speaker, International Symposium on Pathophysiology of Astrocytes and Microglia: Focus on Multiple Sclerosis and HIV-related Brain Damage
Rome, Italy
November 29-December 2, 1995

Invited Speaker, University of Utah
Salt Lake City, Utah
April 22-24, 1996

Invited Speaker, Cytokines in the Brain: Neuropathological Aspects
Saint-Jean de Luz
April 26-28, 1996

Member, Scientific Committee

Plenary Lecturer
6th International Congress on TNF and Related Cytokines
Rhodes, Hellas
May 8-12, 1996

Invited Speaker, Scripps Research Institute
La Jolla, California
May 21-23, 1996

Co-Chair, American Society for Investigative Pathology ASIP Symposium, Glial Cytokines
New Orleans, Louisiana
June 6, 1996

Invited Speaker, NMSS, Birmingham Chapter
Research Update on MS
Birmingham, Alabama
July 9, 1996

Invited Speaker, HIV in the Brain: Pathology and Neurobehavioral Consequences, OAR, NIMH
Washington, D.C.
September 4-6, 1996

Invited Speaker, Boehringer Ingelheim Pharmaceuticals
Ridgefield, Connecticut
October 28-29, 1996

Plenary Speaker, Cytokines in Diseases of the CNS
2nd DAAK/GAAC Meeting on Molecular Medicine
Reinberg Castle, Tegernsee, Germany
November 17-20, 1996

Invited Speaker, Vanderbilt University
Nashville, Tennessee

December 10-11, 1996

Invited Speaker, NIH
Bethesda, MD
January 14, 1997

Invited Speaker, LSU Shreveport
Shreveport, LA
April 15, 1997

Invited Speaker Northwestern University Graduate Student Association
Invitation
Chicago, IL
April 29, 1997

Invited Speaker, The University of Texas Health Science Center at San
Antonio
San Antonio, TX
May 29, 1997

Invited Speaker, Marine Biological Laboratory Course: Pathogenesis of
Neuroimmunologic Disease
Woods Hole, Massachusetts
August 19-21, 1997

Invited Speaker, University of Pittsburgh Center for Neuroscience
Retreat
Oglebay Park, West Virginia
September 5-7, 1997

Invited Speaker, The Miami Project to Cure Paralysis,
University of Miami School of Medicine
12th Annual Visiting Professor Lectureship Series
Miami, Florida
September 30 - October 2, 1997

Invited Speaker, The University of Nebraska Medical Center
Omaha, Nebraska
October 21-22, 1997

Invited Speaker, Neuroscience Colloquium
Humboldt University Hospital
Berlin, Germany
January 27-29, 1998

Invited Speaker, University of Colorado, Boulder
Boulder, Colorado
February 19-20, 1998

Invited Speaker, American Society for Neurochemistry Neuroinflammatory
Symposium
Denver, Colorado
March 7-11, 1998

Invited Speaker, University of Alabama at Birmingham Career Development

Workshop
Birmingham, Alabama
March 27-28, 1998

Chair, Experimental Biology, 1998, AAI Minisymposium, *Macrophage Activation*
San Francisco, California
April 18-22, 1998

Invited Speaker, Berlex Biosciences
Richmond, California
June 8, 1998

Invited Speaker, FASEB Summer Conference, Neural-Immune
Interactions in Injury and Disease: Pathways to Therapy
Wilsonville, Oregon
July 12-17, 1998

Invited Speaker, University of Arkansas
Arkansas Center for Neuroscience Distinguished Scientist Lecturer
Little Rock, Arkansas
September 17-18, 1998

Invited Speaker, Neuroimmunology Seminar Series
University of Wuerzburg
Wuerzburg, Germany
October 6-7, 1998

Invited Speaker, Symposium on Brain Development and Function: From Basic
Science to Clinical Application
Heidelberg, Germany
October 8-9, 1998

Invited Speaker, NINDS AIDS Program Panel Number Two; Neuronal Injury in
HIV Infection
Miami Beach, Florida
February 4-6, 1999

Invited Speaker, Keystone Symposium on Infections of the Nervous System:
Host - Pathogen Interactions/Effectors of Inflammation in the CNS
Taos, New Mexico
March 9-13, 1999

Invited Speaker, University of Arkansas School of Medicine
Little Rock, Arkansas
April 26-28, 1999

Invited Speaker, International Society Neurochemistry/European Society
Neurochemistry Joint Meeting
Berlin, Germany
August 8-14, 1999

Invited Speaker, Marine Biological Laboratory Course: Pathogenesis of
Neuroimmunologic Disease
Woods Hole, Massachusetts
August 15-27, 1999

Keynote Speaker, Great Lakes Glia Meeting
Traverse City, Michigan
September 25-28, 1999

Invited Speaker, 2nd Santa Fe Symposium, In Defense of the Brain: Current Concepts in the Pathogenesis of CNS Infections
Santa Fe, New Mexico
October 16-19, 1999

Invited Speaker, Birmingham Southern College
Birmingham, Alabama
November 16, 1999

Invited Speaker, Case Western Reserve University
Cleveland, Ohio
December 14, 1999

Invited Participant, Committee on Science, Engineering and Public Policy
Workshop: Enhancing the Postdoctoral Experience
Washington, D. C.
December 21, 1999

Invited Speaker, Rutgers University
Newark, New Jersey
February 10-11, 2000

Invited Speaker, Case Western Reserve University
Cleveland, Ohio
February 15-16, 2000

Invited Participant, John D. & Catherine T. MacArthur Foundation
Scientific Meeting
Galveston, Texas
March 16, 2000

Invited Speaker, NIH-Sponsored Workshop I. The Role of the Immune System in Spinal Cord Injury
Bethesda, Maryland
April 4-6, 2000

Invited Speaker, University of Wisconsin
Madison, Wisconsin
April 18-19, 2000

Chair, American Association of Immunologists/Clinical Immunology Society
Symposium: *Cytokine/Chemokine Regulation of Immune Responses in the Central Nervous System*
Seattle, Washington
May 12-16, 2000

Chair, American Association of Immunologists/Clinical Immunology Society
Chemokines and Receptors Symposium
Seattle, Washington
May 12-16, 2000

Invited Speaker, The Next Neuroscience Generation – Neuroimmunology
Berlin, Germany
May 22-23, 2000

Chair, FASEB Summer Conference, Neural-Immune Interactions in Injury and Disease
Copper Mountain, Colorado
June 18-22, 2000

Invited Speaker, Loyola University Medical Center
Maywood, Illinois
October 2-3, 2000

Keynote Speaker, 9th Annual Retreat of Tulane University: Interdisciplinary Program in Molecular and Cellular Biology
Camp Tchefunctc, Louisiana
October 20-22, 2000

Invited Speaker, National Neurotrauma Society Meeting
New Orleans, Louisiana
November 3-4, 2000

Invited Speaker, UNC Charlotte
Charlotte, North Carolina
November 17, 2000

Invited Speaker, University of South Alabama
Mobile, Alabama
November 29-30, 2000

Invited Speaker, The University of Texas Health Science Center at San Antonio, San Antonio Texas
December 11, 2000

Invited Speaker, Uniformed Services University
Bethesda, Maryland
December 18-19, 2000

Invited Speaker, Roswell Park Cancer Institute
Buffalo, New York
January 9-10, 2001

Invited Speaker, Emory University
Atlanta, Georgia
January 26, 2001

Invited Speaker, Class II MHC Gene Regulation and Biologic/Clinical Applications
Kiawah Island, South Carolina
March 22-25, 2001

Invited Speaker, Yale University
New Haven, Connecticut
May 23-24, 2001

Invited Speaker, Marine Biological Laboratory Course:
Pathogenesis of Neuroimmunologic Disease
Woods Hole, Massachusetts
August 15-19, 2001

Invited Speaker/Chair, International Society of Neuroimmunology
Edinburgh, Scotland
September 4-7, 2001

Invited Speaker, UMDNJ
Newark, New Jersey
November 28, 2001

Invited Speaker, University of California, Irvine
Irvine, California
January 17-18, 2002

Invited Speaker/Chair, Keystone Symposium on Stroke – Molecular, Cellular,
Pharmacological and Development of New Therapies: Inflammatory and
Immune Cells and Mediators in Stroke
Taos, New Mexico
March 9-14, 2002

Invited Speaker, 23rd Princeton Conference
San Diego, California
March 21-23, 2002

Invited Speaker, University of Maryland at Baltimore
Baltimore, Maryland
April 18, 2002

Invited Speaker, Stanford University
Stanford, California
April 29-30, 2002

Plenary Speaker, 4th Annual International Symposium on Neurovirology
Dusseldorf, Germany
June 19-22, 2002

Invited Speaker, American Society for Neurochemistry
Palm Beach, Florida
June 22-26, 2002

Invited Speaker, University of Nebraska
Omaha, Nebraska
July 17-19, 2002

Chair, FASEB Summer Conference, Neural-Immune Interactions in Injury and
Disease,
Tucson, Arizona
August 17-22, 2002

Invited Speaker, NIH Workshop on Astrocyte Function in Health and Disease
Washington, D.C.

September 23-25, 2002

Invited Speaker, Multiple Sclerosis Preceptorship
Birmingham, Alabama
October 5, 2002

Invited Speaker, NIH
Rockville, Maryland
October 23, 2002

Invited Speaker, New York Medical College
Valhalla, New York
November 6, 2002

Invited Speaker, SPORE Meeting
UCSF
San Francisco, California
January 9-10, 2003

Invited Participant, VA-NINDS
ALS Meeting
Washington, D.C.
January 21, 2003

Invited Speaker, 28th International Stroke Conference of the AHA/ASA
Phoenix, Arizona
February 13-15, 2003

Invited Speaker, University of New Mexico
Albuquerque, New Mexico
March 6, 2003

Invited Speaker, University of Nebraska, Lincoln
Lincoln, Nebraska
April 22, 2003

Invited Speaker/Chair, American Society of Neurochemistry
Newport Beach, California
May 3-8, 2003

Symposium Speaker, Oklahoma Center for Neuroscience
The University of Oklahoma
Oklahoma City, Oklahoma
June 11-12, 2003

Invited Speaker, Kentucky Spinal Cord and Head Injury Research
Trust Symposium
Louisville, Kentucky
June 27-28, 2003

Invited Speaker, Bioteach
McWane Center
Birmingham, Alabama
July 11, 2003

Invited Speaker, Marine Biological Laboratory Course:
Pathogenesis of Neuroimmunologic Disease
Woods Hole, Massachusetts
August 13-15, 2003

Plenary Speaker, The 5th International Symposium on NeuroVirology
Baltimore, Maryland
September 4-6, 2003

Guest Lecturer, 7th Annual NIMH Scientific Retreat
Gettysburg, Pennsylvania
September 22-23, 2003

Invited Speaker, Alabama Chapter of the NMSS
Annual Meeting
Birmingham, Alabama
October 10, 2003

Invited Speaker, University of Oklahoma
Oklahoma City, Oklahoma
November 13-14, 2003

Executive Chair/Speaker, NIH Workshop on Glial Inflammation in Chronic
Neurodegenerative Diseases
Washington, D.C.
December 7-10, 2003

Invited Speaker, The 2004 Schmitt Symposium:
Immune and Inflammatory Responses in the CNS
Rochester, New York
April 23, 2004

Invited Speaker, Midwest Inflammation Research Association
Symposium on Neuroinflammation
Indianapolis, Indiana
May 2-3, 2004

Invited Speaker/Chair, FASEB Summer Conference
Neural-Immune Interactions: Physiological and Pathological Relevance
Tucson, Arizona
August 7-12, 2004

Invited Chair, International Society for Neuroimmunology
Venice, Italy
September 28-October 2, 2004

Invited Symposium Speaker, Society for Neurosciences
San Diego, California
October 23-27, 2004

Invited Speaker, University of Calgary
Calgary, Canada
November 17-19, 2004

Invited Speaker, UT Southwestern

Dallas, Texas
December 13-14, 2004

Invited Speaker, Gordon Research Conference on Glial Biology
Ventura, California
March 13-18, 2005

Invited Speaker, University of Kentucky, Louisville
Louisville, Kentucky
May 19, 2005

Invited Speaker, Marine Biological Laboratory Course:
Pathogenesis of Neuroimmunologic Disease
Woods Hole, Massachusetts
August 14-16, 2005

Invited Speaker, Seoul National University
Seoul, S. Korea
October 28, 2005

Symposium Speaker, The Korean Society for Brain and Neural Science
Seoul, S. Korea
October 28, 2005

Invited Speaker, Emory University
Atlanta, Georgia
November 8, 2005

Invited Speaker, SONTAG Brain Tumor Foundation
Jacksonville, Florida
March 8-10, 2006

Invited Speaker, American Society for Neurochemistry
Portland, Oregon
March 11-15, 2006

Invited Speaker, Mayo Clinic
Rochester, Minnesota
April 19-20, 2006

Invited Speaker, University of Michigan
Ann Arbor, Michigan
May 11-12, 2006

Invited Speaker, University of Illinois
Peoria, Illinois
May 25-26, 2006

Invited Speaker/Chair, FASEB Summer Conference
Neural-Immune Interactions
Tucson, Arizona
August 5-10, 2006

Invited Speaker, Stony Brook
Stony Brook, New York

September 18-19, 2006

Invited Speaker, Baylor College of Medicine
Houston, Texas
October 11-12, 2006

Invited Speaker, Society for Neuro-oncology
Orlando, Florida
November 15-19, 2006

Invited Speaker, UNC Chapel Hill
Chapel Hill, North Carolina
November 29-30, 2006

Invited Chair, Gordon Conference on Glial Biology
Ventura, California
March 11-16, 2007

Grant Support: Past

National Science Foundation, August 15, 1987 - January 31, 1991, #BNS-8708233. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, October 1, 1987 - September 30, 1990, #RG 1954-A-2. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, September 1, 1988 - August 31, 1993, PO1 AI27290. **E.N. Benveniste, Project Leader.**

National Multiple Sclerosis Society, April 1, 1990 - September 30, 1993, #RG 2205-A-3. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, October 1, 1990 - March 31, 1994, #RG 2269-A-4. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, September 30, 1991 - May 31, 1996, P01 NS29719. Molecular Immunopathogenesis of Demyelinating Disease. Principal Investigators: J.N. Whitaker and **E.N. Benveniste; Project Leader, E.N. Benveniste.**

National Institutes of Health, October 1, 1992 - July 31, 1996, P20 NS31096. Molecular and Cellular Biology of Human Glial Tumors. Principal Investigator: S.S. Rosenfeld, Project 1: Tumor Necrosis Factor-alpha Gene Expression in Malignant Glioma Cells. **E.N. Benveniste, Project Leader.**

National Multiple Sclerosis Society, November 1, 1993 - April 30, 1995, #PPO343. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, September 1, 1993 - August 31, 1996, R01 MH50421. Astrocyte Cytokine Expression/Ion Transport in ADC. Principal Investigator: D.J. Benos, **Co-Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, October 1, 1993 - March 31, 1997, #RG 2205-B-5. Cloning and Characterization of the Astrocyte Derived Nuclear Protein IFNEX. **Principal Investigator: E.N. Benveniste.**

Berlex Laboratories, August 1, 1994 - December 31, 1995. **Principal Investigator: E.N. Benveniste.**

AmFAR, August 1, 1995 - August 31, 1996. 02405-18-RG. Class II MHC and ICAM-1: Involvement in ADC. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, April 1, 1994 - September 30, 1997, #RG 2269-B-5. Regulation of TNF- α Gene Expression by Glial Cells. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, September 30, 1997 - July 31, 2000. R01 NS36765-01. Cytokine Regulation of CIITA and Class II MHC in Glia. Total Direct Costs: \$400,000. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, April 1, 1997 – September 30, 2000, #RG 2205-B-9. CIITA and Class II MHC Expression in Glia: Inhibition by TGF- β and IL-4. Total Direct Costs: \$126,360. **Principal Investigator: E.N. Benveniste.**

Health Services Foundation, December 1, 1997 - July 31, 2000. NeuroAIDS Consortium. Total Costs: \$74,960 **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, June 18-23, 2000. NS 40010-01. FASEB Summer Conference on Neuroimmunology. Total Direct Costs: \$11,650. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, September 30, 1995 - April 30, 2001, R01 MH55795. HIV gp120 Induction of ICAM-1: Involvement in ADC. Total Direct Costs: \$710,669. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, October 1, 1996 - April 30, 2001, R01 MH50421-04. Astrocyte Cytokine Expression/Ion Transport in ADC. Total Direct Costs: \$773,540. Principal Investigator: D.J. Benos, **Co-Investigator: E.N. Benveniste.**

National Institutes of Health, June 1, 1996 - March 31, 2002, P01 NS29719-06. Molecular Immunopathogenesis of Demyelinating Disease. Principal Investigators: J.N. Whitaker and E.N. Benveniste. Project 1: ICAM-1 Expression in Glial Cells: Expression and Function. Total Direct Costs on Project 1: \$739,023. (One-year, no-cost extension) **E.N. Benveniste, Project Leader.**

American Foundation for AIDS Research, 06/01/01 – 05/31/02. CD40/CD154 Mediated Reactivation of Latent HIV-1 Infection. Total Direct Costs: \$60,000. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, August 17-22, 2002. R13 AG20989 FASEB Summer Conference on Neuroimmunology. Total Direct Costs: \$26,875. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, March 15, 1997 - March 14, 2003. P01 NS34856-01. Molecular and Cellular Biology of Human Glial Tumors. Principal Investigators: S.S. Rosenfeld and E.N. Benveniste. Project 1: ICAM-1 Gene Expression in Malignant Glial Tumors. Total Direct Costs on Project 1: \$668,235. (One-year, no-cost extension) **E.N. Benveniste, Project Leader.**

National Institutes of Health, June 7, 2001 – May 31, 2005. R01 MH63650 CXCR4 Expression and Function in Astrocytes. Total Direct Costs: \$600,000. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, March 1, 2000 – February 28, 2005. No-cost extension until Feb. 28, 2006. R01 NS39954-01. IL-6 Type Cytokines: Regulation of IL-6 Expression in Astrocytes. Total Direct Costs: \$1,000,000. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, August 1, 2000 – July 31, 2005. No-cost extension until July 31, 2006. 2R01 NS36765-04 Cytokine Regulation of CIITA and Class II MHC in Glia. Total Direct Costs: \$1,125,000. **Principal Investigator: E.N. Benveniste.**

Grant Support: Current

National Institutes of Health, September 5, 2002 – May 31, 2007. P50 CA097247 SPORE in Molecular Therapeutics for Anaplastic Gliomas. Principal Investigator S.S. Rosenfeld. Project 2, Interferon-Mediated
Benveniste

Suppression of MMP-9 Gene Expression and Function in Gliomas. Total Direct Costs: \$884,225. **Project Leader: E.N. Benveniste.**

National Institutes of Health, July 15, 2003 – June 30, 2008. R01 NS45290 CD40 Expression and Function in Microglia. Total Direct Costs: \$1,070,000. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, April 1, 2005 – March 31, 2008. RG 3661-A-10 TRADD as a Regulator of Cytokine Signaling in Macrophages and Microglia. Total Direct Costs: \$134,986. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, June 1, 2005 – November 31, 2006. NMSS PP1129 Novel Inhibitory Mechanisms of Statins: Influence on STAT and SOCS Proteins. Total Direct Costs: \$40,000. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, August 19, 2005 – May 31, 2010. R01 NS50665 TRADD as a Regulator of Cytokine Signaling in Glia. Total Direct Costs: \$1,040,000. **Principal Investigator: E.N. Benveniste.**

National Institutes of Health, February 15, 2006 - January 31, 2008. R21 NS54158 Role of ING4 in Modulating the Tumorigenic Contribution of NF- κ B in Gliomas. Total Direct Costs: \$247,500. **Principal Investigator: E.N. Benveniste.**

National Multiple Sclerosis Society, October 1, 2006 – September 30, 2009. RG-3892-A-12 Expression and Function of SOCS Proteins in Glia. Total Direct Costs: \$424,398. **Principal Investigator: E.N. Benveniste.**

Grant Support: Pending

National Institutes of Health, December 1, 2006 - November 30, 2010. R01 NS57563-01 Expression and Function of SOCS Proteins in Glial Cells. Total Direct Costs \$800,000. **Principal Investigator: E.N. Benveniste. Percentile 9.7**

National Institutes of Health, April 1, 2007 – March 31, 2012. T32 NS48039 Training Program in Brain Tumor Biology. Total Direct Costs \$1,187,826. **Principal Investigator: E.N. Benveniste.** Score of 130.

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171. Lee, S-J., Qin, H., and **E.N. Benveniste**. 2006. Simvastatin inhibits IFN- γ - induced CD40 gene expression by suppressing STAT-1 α . Submitted.

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Holly Patton	Department of Physiology and Biophysics, Graduated 1999
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Anne Lynn Bradford	Department of Physiology and Biophysics, Graduated 1999
Heng Xie	Department of Pathology, Graduated 1998
John West	Department of Microbiology, Graduated 2000
Inn-Oc Han	Department of Cell Biology, Graduated 1997
Andrea Wolf	Department of Microbiology, Graduated 2000
Melissa Kearns	Department of Cell Biology, Graduated 1999
Kaihong Su	Department of Cell Biology, Graduated 1998
Ira Blader	Department of Cell Biology, Graduated 1998
Wen Xie	Department of Cell Biology, Graduated 1997
Laura Fraser Cotlin	Department of Cell Biology, Graduated 2000
Liang Liang	Department of Cell Biology, Graduated 1999
Sung-Oh Kim	Department of Cell Biology, Graduated 1999
Sunghyun Kang	Department of Cell Biology, Graduated 2000
Brian Sims	Department of Cell Biology, Graduated 1998
Denise Kaminski	Department of Microbiology, Graduated 2002
Stacie Propst	Department of Physiology and Biophysics, Graduated 2000

Young-Mi Go	Molecular and Cellular Pathology, Graduated 2000
Maria Poczatek	Molecular and Cellular Pathology, Graduated 2001
Min Fang	Department of Cell Biology, Graduated 1998
Natasha Browner	Department of Pharmacology, Graduated 2004
Yasheng Gao	Department of Cell Biology, Graduated 2001
Zhigang Xie	Department of Cell Biology, Graduated 2001
Yue Zhang	Department of Cell Biology, Graduated 2001
KeriLyn Roberts	Department of Microbiology, The University of Texas Health Science Center of San Antonio, Graduated 2000
Mee Jeon Roh	Department of Cell Biology, Graduated 2001
Erin Rogers	Department of Cell Biology, Graduated 2004
Yue Wang	Department of Microbiology, Graduated 2002
Kai He	Department of Cell Biology, Graduated 2004
Fengxue Zhang	Department of Cell Biology, Graduated 2003
Kevin Huang	Department of Physiology/Biophysics, Graduated 2005
Daniel Greene	Department of Cell Biology, Graduated 2004
Ssang-Taek Lim	Department of Cell Biology, Graduated 2003
Kim Loesch	Department of Cell Biology, Graduated 2006
Ligong Chen	Department of Cell Biology, Graduated 2003
Tanya Rege	Department of Cell Biology, Graduated 2005
Constance Fears	Department of Cell Biology, Graduated 2005
Amish Shah	Department of Physiology/Biophysics, Graduated 2006
Youngjin Lei	Department of Neurobiology
Yun-Ju Lai	Department of Cell Biology
Marcus Debiasi	Department of Pathology, Graduated 2006
Yawar Qadri	Department of Physiology/Biophysics

Medical Students

Frank Thomas, M.D.	1987
Alyssa T. Reddy, M.D.	1990
John Waits	1997

High School Students

Shanae Windham	1992-Fairfield High School
Eynav Elgavish	1992-Indian Springs High School
Wei Zhou	1995, 1996-Vestavia Hills High School
George Atkinson	1999-Vestavia Hills High School
Marijke DeVos	2006-Altamont School

Undergraduate Students

Alice Chen	1987, 1988 - Medical Student, Stanford University
Jenny Miller	1989 - Medical Student, UAB
Michal Elovitz	1989 - Medical Student, Albert Einstein School of Medicine
Robert Law	1993 - 1994; Honors Program, UAB
George Atkinson	2000 - Vanderbilt University
	2001 - Vanderbilt University
	2002 - Vanderbilt University
Reesha Shah	2002 - University of Alabama at Birmingham, Honors Program, EMSAP Program
Nemil Shah	2003 - University of Alabama at Birmingham
Kiran Patel	2004 - University of Alabama at Birmingham, Honors Program
Alisha George	2005 - University of Alabama at Birmingham, Honors Program,

EMSAP Program

Postdoctoral Fellows

Maria Vidovic, Ph.D.	1989-1990	Assistant Professor John Curtain School of Medical Research Canberra, Australia
Il Yup Chung, Ph.D.	1992	Associate Professor Dept. of Biochemistry 398, Daehak-dong, Ansan, Kyungki-do, 425791, S. Korea
Scott Huneycutt, Ph.D.	1993-1995	Unknown
Brian Panek, Ph.D.	1993-1994	High School Science Teacher New Jersey
Joo Young Park, M.D.	1994-1996	Professor Department of Microbiology Yonsei University Wonju, Korea
Margaret Winkler, M.D.	1995-1997	Professor Department of Pediatrics University of Alabama at Birmingham Birmingham, AL
Jongbum Kwon, Ph.D.	1995	Assistant Professor Division of Molecular Life Sciences Ewha Womans University Seoul, Korea
Paul Lyons, Ph.D., M.D.	1995-1997	Assistant Professor, Neurology Thomas Jefferson Medical School
Protul Shrikant, Ph.D.	1995-1996	Associate Professor Roswell Park Cancer Institute Buffalo, NY
Sung Joong Lee, Ph.D.	1999-2000	Assistant Professor Seoul National University Seoul, Korea
Jae Wook Oh, Ph.D.	1997-2002	Assistant Professor Chosun University Gwangju, Korea
Yuanshu Dong, Ph.D.	2001-2001	Research Associate George Mason University Fairfax, VA
Olaf Kutsch, Ph.D.	1998-2003	Assistant Professor Department of Medicine

		University of Alabama at Birmingham Birmingham, AL
Chulhee Choi, M.D., Ph.D.	1999-2002	Associate Professor KAIST Seoul, Korea
George O'Keefe, Ph.D.	2001-2001	Unknown
Steve Pedrini, Ph.D.	2000-2002	Postdoctoral Fellow Thomas Jefferson Medical School Philadelphia, PA
Vince Nguyen, Ph.D.	2000-2002	Internal Medicine Resident University of Texas Medical Branch, Galveston
Jinseu Park, Ph.D. (Sabbatical)	2001-2002	Professor Department of Genetic Engineering Hallym University, Republic of Korea
Susan Nozell, Ph.D.	2002-2006	Assistant Professor Department of Cell Biology University of Alabama at Birmingham Birmingham, AL
Daeho Kwon, Ph.D.	2002-2003	Assistant Professor Ewha Women's University Seoul, Korea
Daniel Chen, M.D., Ph.D.	2002-2005	Postdoctoral Fellow University of Pennsylvania Philadelphia, PA
Eduardo Broitman, M.D.	2002-2004	Private Practice, Chile
Zhendong Ma, M.D., Ph.D.	2002-2004	Postdoctoral Fellow UT Southwestern Medical Center Dallas, TX
YounHee Choi, M.D., Ph.D.	2004-Present	

Teaching Responsibilities:

Molecular and Cellular Neurobiology Course
Lecture: "*Glial Cell Structure and Function*"
1987, 1988, 1989, 1992

Advanced Graduate Course in Neuroimmunology: **Course Master**
Lectures: "*Effects of Lymphokines on Glial Cells*"
"*Secretion of Lymphokine-like Molecules from Glial Cells*"
"*Antigen Presentation by Glial Cells*"
1988

Cellular and Molecular Biology V: Immunology
Lecture: "*Neuroimmunobiology*"

1990, 1991, 1992

Introduction to Neurobiology, Section 5: Neuroimmunology - **Section Leader**

Lectures: "*Introduction to Glial Cells and the Immune System*"
"*Bidirectional Communication Between the Immune System and Central Nervous System*"
Fall 1990

Cellular and Molecular Biology IV: Cell Biology and Metabolism

Lecture: "*Cell Signaling: PKC*"
1991

Advanced Graduate Course in Neuroimmunology

Lectures: "*Cytokines and Glial Cells*"
"*Antigen Presentation by Astrocytes and Microglia*"
1991, 1993

Cellular and Molecular Biology IV: Cell Biology

Lectures: "*Cell Signaling: Protein Kinase A*"
"*Cell Signaling: Phosphoinositides/PKC*"
Winter 1992, 1993

Dental/Optomety Microscopic Anatomy

Lectures/Labs: "*Immune System Overview*"
"*Thymus/Lymph Nodes*"
"*Spleen/Tonsils*"
1992, 1993, 1994

Medical Tissue and Cell Biology

Lecture: "*Signal Transduction, cAMP and PKA*"
1993, 1994, 1995, 1996, 1997, 1998
"*Signal Transduction: Cytokines and the JAK/STAT Pathway*"
2001, 2002, 2004, 2005, 2006

Cellular and Molecular Biology IV: Cell and Developmental Biology

Lectures: "*Cell Signaling: PKA*"
"*Cell Signaling: Receptor associated tyrosine kinases*"
1994, 1995, 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005, 2006

Molecular Mechanisms of Cellular Signal Transduction CB725

Lecture: "*Molecular Mechanisms of Cytokine Action*"
1994

Cellular and Molecular Biology IV: Cell Biology - **Course Master**

1995, 1996, 1997, 1998, 1999

Neurobiology of Disease

Lecture: "*Inflammatory Diseases of the CNS*"
1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005

Medical Neuroscience

Discussion Section: NeuroAIDS
1997

Molecular Physiology and Medicine: Fundamental Insights into Common Diseases

Lecture: *"Multiple Sclerosis"*
1998

Molecular Biology of Cell Adhesion
Lecture: *"ICAM-1 and the Immune Response"*
1998

Cellular and Molecular Neurobiology
Lecture: *"Cytokines in the Central Nervous System"*
1998

Cell Biology and Physiology in Medicine
2001, 2002, 2003

Advanced Course in Brain Tumor Biology, **Co-Course Master**
2004, 2006