

SUMMARY

Dr. Hafler is the William S. and Lois Stiles Edgerly Professor and Chairman Department of Neurology and Professor of Immunobiology, Yale School of Medicine, and is the Neurologist-in-Chief of the Yale-New Haven Hospital. His lab has been a major force in bridging immunology, genetics, and neurology in the understanding of MS and is credited with identifying central mechanisms underlying the disease causes. His early seminal work demonstrated systemic immune involvement (NEJM 1985) and the first identification of myelin-reactive T cells in MS (Nature 1990). He elucidated why autoreactive T cells were dysregulated by the first identification of Tregs in humans followed by demonstration of their dysfunctional state in autoimmune diseases (JEM 2004, Nature Med 2011). As a founding Broad Institute associate member, he identified the genetic variants that cause MS risk (NEJM 2007, Nature 2011). While identifying the biologic function of these genetic variants (PNAS 2009), he interrogated causative autoimmune SNPs on chromatid maps of multiple cell types identifying key transcription factor binding sites and signaling pathways as potential treatment targets (Nature 2015). Focusing on environmental factors, he discovered that salt drives induction of pathogenic myelin reactive CD4 cells (Nature 2013, JCI 2015). Hafler became Chairman of Neurology at Yale in 2009, where he has built an outstanding clinical and research program that strongly integrates medical sciences. He has received numerous honors including the Dystel Prize from the AAN for his MS research, the University of Miami Distinguished Alumni Award, the American Neurologic Association Adams Lectureship, the Dystel Prize for MS research from the American Academy of Neurology, and was elected into the National Academy of Medicine.

ADDENDUM OF MAJOR PUBLICATIONSYear Details of Publication *Co-Senior Authors

- 1990 Ota K, Matsui M, Milford E, Weiner H, **Hafler DA**. T cell recognition of an immunodominant MBP epitope in MS. *Nature* 346, 183.
- 2001 Baecher-Allan C, Brown JA, Freeman GJ, **Hafler, DA**. CD4⁺CD25^{high} regulatory cells in human peripheral blood. *J Immunol* 167(3): 1245-53
- 2004 Viglietta V, Baecher-Allan C, **Hafler DA**, Loss of suppression by CD⁺CD25⁺ regulatory T cells in MS patients. *J Exp Med* 199:971.
- 2005 Kent SC, Chen Y, Bregoli L, Clemmings SM, Kenyon NS, Ricordi C, Hering B, **Hafler DA**. Expanded T cells from pancreatic lymph nodes of type 1 diabetic subjects recognize an insulin epitope. *Nature* 435:224-228
- 2007 International Multiple Sclerosis Genetic Consortium; **Hafler, D.A.**, et al. Novel Risk Alleles for Multiple Sclerosis Identified by a Whole Genome Association Study. *N Engl J Med* 357:851-62,
- 2007 Anderson, AC, Anderson, DE, Bregoli, L, Hastings, WD, Karman, J, Su, EW, Hirashima, M, Bruce, JN, Kane, LP, Kuchroo, VK, **Hafler, DA**. TIM-3 is expressed by cells of the innate immune system and promotes tissue inflammation. *Science* 318, 1141
- 2008 Yang, L, Anderson D, Baecher-Allan, C, Bettelli, E, Oukka, M, Kuchroo, VK, **Hafler, DA**, IL-21 and TGFβ are Required for differentiation of human Th17 cells, *Nature*, 454:350
- 2009 De Jager PL, Baecher-Allan C, Maier LM, McCauley JL, Sawcer S, Goris A, Saarela J, Yelensky R, Price A, Leppa V, Patterson N, de Bakker PIW, Tran D, Aubin C, Pobywajlo S, Rossin E, Ashley C, Choy E, Barcellos L, Rioux JD, Pericak-Vance MA,

- Ivinson A, Palotie A, Peltonen L, Dubois B, Haines JL, Compston A, Hauser SL, Daly MJ, Reich DE, Oksenberg JR, **Hafler DA**. The role of the CD58 locus in multiple sclerosis. *Proc Natl Acad Sci U S A*, 2009 106(13):5264-9
- 2011 Dominguez-Villar M, Baecher-Allan CM, **Hafler DA**. Identification of T helper type 1-like, Foxp3⁺ regulatory T cells in human autoimmune disease. *Nat Med*. 17:673-5
- 2013 Kleinewietfeld M, Manzel A, Titze J, Kvakan H, Yosef N, Linker RA, Muller DN, Hafler DA. Sodium chloride drives autoimmune disease by the induction of pathogenic Th17 cells. *Nature*; 496(7446):518-22
- 2015 Farh K, Marson A, Zhu J, Kleinewietfeld M, Housley WJ, Beik S, Shores N, Whitton H, Ryan RJH, Shishkin AA, Hatan M, Carrasco-Alfonso MJ, Mayer D, Luckey CJ, Patsopoulos NA, De Jager PL, Kuchroo VK, Epstein CB, Daly MJ, Hafler DA* Bernstein BE, *. Genetic and epigenetic fine mapping of causal variants in autoimmune disease. *Nature*; 518(7539):337-43
- 2015 Dominguez-Villar M, Gautron A, de Marcken M, **Hafler DA**. TLR-7 induced CD4⁺ T cell Anergy. *Nat Immunol.*; 16(1):118-28
- 2015 Cao Y, Goods BA, Raddassi K, Nepom GT, Kwok WW, Love C, **Hafler DA**. Distinct Inflammatory Profiles of Myelin-Reactive T cells from Patients with Multiple Sclerosis. *Science Translational Medicine*, 13;7(287):1-10.
- 2015 Hernandez, AL, Wu C, Lowther DE, Rodriguez DM, Vudattu N, Deng S, Herold KC, Kuchroo VK, Kleinewietfeld M, **Hafler DA**. Sodium Chloride Inhibits Suppressive Function of Foxp3⁺ Regulatory T cells. *J. Clin. Invest.* 125(11):4212-22.
- 2018 International Multiple Sclerosis Genetics Consortium. Low frequency and rare coding variation contribute to multiple sclerosis risk. *Cell*, 2018.
- 2018 Sumida T, Lincoln MR, Ukeje CM, Rodriguez DM, Akazawa H, Noda T, Naito AT, Komuro I, Dominguez-Villar M, **Hafler DA**. Activated β -catenin in Foxp3⁺ regulatory T cells links inflammatory environments to autoimmunity. *Nature Immunology*, 2018 doi: 10.1038/s41590-018-0236-6. PMID: 30374130
- 2019 IMSSGC. The Multiple Sclerosis Genomic Map: Role of peripheral immune cells and resident microglia in susceptibility. *Science*, 2019, PMID: 3034389
- 2020 Pappalardo JL, Le Zhang L, Pecsok M, Perlman K, Zografou C, Raddassi K, Abulaban A Krishnaswamy S, Jack Antel, van Dijk D, Hafler, DA, Transcriptomic and clonal characterization of T cells in the human central nervous system *Science Immunol*, 5, eabb8786 (2020).
- 2021 Pompura, SL, Wagner A, Kitz A, LaPerche J, Yosef N, Dominguez-Villar M, Hafler DA. Oleic Acid Induces Tissue Resident FoxP3 Regulatory T cell Function. *J. Clin. Invest*, 2021 Jan 19;131(2):e138519. doi: 10.1172/JCI138519. PMID: 33170805.
- Lucca LE, Axisa PP, Lu B, Harnett B, Jessel S, Zhang L, Raddassi K, Zhang L, Olino K, Clune J, Singer M, Kluger HM, Hafler DA. Circulating clonally expanded T cells reflect functions of tumor-infiltrating T cells. *J Exp Med*. 2021 Apr 5;218(4):e20200921. doi: 10.1084/jem.20200921. PMID: 33651881
- 2022 Sumida TS, Dulberg S, Schupp J, Stillwell HA, Axisa P, Comi M, Lincoln M, Unterman A, Kaminski N, Madi A, Kuchroo VK, Hafler DA. Type I Interferon Transcriptional Network Regulates Expression of Coinhibitory Receptors in Human T cells, <https://biorxiv.org/cgi/content/short/2020.10.30.362947v1>, *Nature Immunol*, in press

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Cambridge, MA, 02142

Home Address: 331 Old Sachems Head Rd, Guilford, Connecticut 06437

Yale: david.hafler@yale.edu Phone: (203) 785-6351
Broad Institute hafler@broadinstitute.org

Place of Birth: New York, New York, (October 13, 1952)

Education:

1974	B.S.	Emory University, Atlanta, GA (Magna cum Laude, Chemistry)
1974	M.Sc.	Emory University, Atlanta, GA (Biochemistry)
1978	M.D.	University of Miami School of Medicine, Miami, FL
1999	A.M.	Harvard University (Honorary)
2009	A.M.	Yale University (Honorary)

Postdoctoral Training:

Internships and Residencies:

1978-1979	Intern in Medicine, The Johns Hopkins Hospital, Baltimore, MD
1979-1981	Assistant Resident, Neurology, The New York Hospital-Cornell Medical Center, & Memorial Sloan Kettering Cancer Institute, NYC, NY
1981-1982	Chief Resident, Neurology, the New York Hospital-Cornell Medical Center, and Memorial Sloan Kettering Cancer Institute

Research Fellowships:

1982	Guest Investigator (Division of Immunology-Kunkel Lab), The Rockefeller University, New York, NY
1982-1984	Research Fellow in Neurology and Immunology, Harvard Medical School, Boston, MA

Licensure and Board Certification:

1979	New York
1982	Massachusetts
1987	American Board of Psychiatry and Neurology
2010	Connecticut

Academic Appointments:

1984-1985	Instructor in Neurology, Harvard Medical School, Boston, MA
1985-1988	Assistant Professor of Neurology, Harvard Medical School, Boston, MA
1988-1999	Associate Professor of Neurology, Harvard Medical School, Boston, MA
1999-	Professor of Neurology (Neuroscience), Harvard Medical School, Boston, MA
2000-2009	Jack, Sadie, and David Breakstone Professor of Neurology, Harvard Medical School, Boston, MA
2002-2004	Visiting Research Scientist, Whitehead Institute, Human Genome Center, MIT

2004-2010	Member (Associate) Broad Institute of Massachusetts Institute of Technology and Harvard University
2009-	Jack, Sadie and David Breakstone Professor Emeritus of Neurology, Harvard University
2009-	Chairman Department of Neurology, Yale School of Medicine and Neurologist in Chief, Yale New Haven Hospital
2009-15	Gilbert H. Glaser Professor of Neurology and Immunobiology, Yale School of Medicine
2010-	Visiting Scientist, Broad Institute of Massachusetts Institute of Technology and Harvard University
2015-	William S. and Lois Stiles Edgerly Professor of Neurology and Immunobiology, Yale School of Medicine

Hospital Appointments:

1978-1979	Assistant in Medicine, Johns Hopkins Hospital, Baltimore, MD
1979-1981	Assistant Neurologist, The New York Hospital, New York, NY
1979-1981	Assistant Neurologist, Memorial Sloan Kettering Hospital, NY
1981-1982	Neurologist, The New York Hospital, NY
1981-1982	Neurologist, Memorial Sloan Kettering Hospital, NY
1982-1985	Research/Clinical Fellow in Medicine Neurology, Brigham and Women's Hospital, Boston, MA
1982-1985	Research Fellow in Neurology, Children's Hospital, Boston, MA
1985-1989	Associate Physician (Neurology), Brigham and Women's Hospital
1989-	Physician (Neurology), Brigham and Women's Hospital, Boston, MA
1994-2009	Director, Division of Molecular Immunology, Department of Neurology, Brigham and Women's Hospital
1997-	Physician (Neurology), Massachusetts General Hospital, Boston, MA
2000-2009	Consulting Staff (Neurology), Cottage Hospital, Nantucket, MA
2009	Neurologist in Chief, Yale-New Haven Hospital

Other Professional Appointments:

1987-2009	Member of the Program for Neuroscience, Harvard Medical School, Boston, MA
1987-2009	Member of the Program in Immunology, Harvard Medical School
1998-2009	Health Science Technology Faculty Member
2004-2009	Executive Committee, Program in Immunology, Harvard Medical School (Co-Chairs of Immunology Program)
2010	Yale Interdepartmental Neuroscience Graduate Program, Yale University
2010	Fellow, Jonathan Edwards College of Yale University

Major Committee Assignments:

1987-1990	Director, American Academy of Neurology Course Newer Immunotherapies for Neurologic Diseases
1990-1994	Session chairman, American Academy of Neurology 44th Annual Meeting, MS and Neuroimmunology Session
1992	Session Organizer; Neuroimmunology Session, 8th International Congress of Immunology, Budapest, Hungary
1992	Organizer; IBC Annual Conference, Advances in the Understanding & Treatment of Multiple Sclerosis
1993	Session Chairman; Modification of T cell mediated Neuropathology American Association of Immunologists
1994	Program Organizer; IBC's Second Annual Conference, Advances in the Understanding & Treatment of Multiple Sclerosis, San Diego CA

1994	Conference Organizer; FASEB Summer Conference on Autoimmunity, Saxtons River, Vermont
1994	Conference Organizer; First International Workshop on TCR usage in Human and Experimental Demyelinating Disease. Leiden, The Netherlands
1997	Partners Immunologic Disease Committee, Partners Healthcare System
1998	Chairman, International Multiple Sclerosis Cytokine Meeting
1998	Organizing Committee, V International Society of Neuroimmunology Meeting, Montreal, Canada
1998	Executive Council, Clinical Immunology Society
1999-	Immune Tolerance Network, NIH, Head of Autoimmunity Group
1999	Co-founder and Chair, Federation of Clinical Immunology Societies
2001	Autoimmunity Centers of Excellence, NIH, Executive Committee
2001	National MS Society Study Section (Fellowship Committee)
2001	Clinical Immunology Committee member, American Association of Immunologists
2002-	Elected to Executive Council, International Society of Neuroimmunology
2002	Executive Committee, International Immunology Congress, Montreal, 2003
2002-2003	Clinical Immunology Committee Chair, American Association of Immunologists
2003	Autoimmunity Prevention Centers, NIH, Executive Committee
2004	Executive Committee, International Immunology Congress, Montreal, 2004
2004	Harvard Center for Genetics and Genomics Executive Steering Committee
2004 -	Keystone Conferences Executive Organizing Committee
2004-2007	President, Federation of Clinical Immunology Societies
2006	Immunology Executive Committee, Harvard Medical School
2006-	NIH Autoimmunity Prevention Center Director
2006	NIH Neuroscience Blueprint Committee
2007	Alliance for Lupus Research Scientific Board
2008	Board Member, Immune Tolerance Institute
2008	Organizing Committee, International Congress of Immunology, Kobe Japan
2010	Organizing Committee, International Congress of Immunology, Rome, Italy
2017	Keystone Symposium Conference Organizer: Immune Regulation in Autoimmunity and Cancer

Professional Societies:

1972	American Chemical Society
1972	American Association for the Advancement of Science
1973	Pi Alpha Chemistry Honor Society
1975	Sigma Xi Research Society
1976	AOA Honorary Medical Society
1981	American Academy of Neurology
1985	American Association of Immunologists
1991	American Neurological Association
1992	American Society for Histocompatibility and Immunogenetics
1993	American Society for Clinical Investigation
1994	National Multiple Sclerosis Society Medical Advisory Board
1994	Clinical Immunology Society
2010	Connecticut Academy of Science and Engineering
2018	National Academy of Medicine
2021	The Association of American Physicians (AAP)

Community Service related to Professional Work:

Massachusetts Chapter Multiple Sclerosis Society; Executive Council

Editorial Boards:

1989-1993	Associate Editor, <i>Journal of Immunology</i>
1992-1996	Advisory Committee, <i>Regional Immunology</i>
1992-1996	Associate Editor, <i>Journal of T cell Biology</i> (North America)
1994-1997	Editorial Board, <i>Cellular Immunology</i>
1999	Editorial Board, <i>Journal of Clinical Investigation</i>
1999	Editorial Board, <i>Journal of Neuroimmunology</i>
2005	Editorial Board, <i>Journal of Experimental Medicine</i>

Ad hoc reviewer for *Nature*, *Science*, *New England Journal of Medicine*, *Immunity*, *Nature Medicine*, *Neurology*, *Annals of Neurology*, *Journal of Immunology*

Awards and Honors:

1969,71,72	National Science Foundation Student Research Awards
1974	Magna Cum Laude in Chemistry
1976	The Demyelinating Disease Award (for paper presented at the National Medical Student Research Forum)
1977	Alpha Omega Alpha (AOA)
1978	The Upjohn Achievement Award for Clinical Excellence, University of Miami
1983	Recipient, National Research Service Award, NIH
1984	The Boston Society for Neurology and Psychiatry 1984 Award for Outstanding Research Project
1985	Clinical Investigator Development Award, NIH
1985	Harry Weaver Scholar of the National Multiple Sclerosis Society
1989	Omni Medical Recognition Award, NYC, NY
1991	Elected in American Neurological Association
1993	Elected in American Society for Clinical Investigation
2001	NIH Autoimmunity Centers of Excellence Award
2000-	Best Doctors in America List
2002	NIH Autoimmunity Prevention Center Award
2004	The Javits Investigator Award, NIH. Awarded to a scientist who has "demonstrated exceptional scientific excellence and productivity in one of the areas of neurological research"
2004-	ISI Most Highly Cited List
2005	Honorary Member Scandinavian Society for Immunology
2008	Boston Magazine "Best Doctors in Boston"
2010	University of Miami Annual Distinguished Alumni Award
2010	Elected to Connecticut Academy of Science and Engineering (CASE)
2010	Harvard Catalyst InnoCentive Ideation Challenge Award, Harvard University
2010	John Dystel Prize for Multiple Sclerosis Research, American Academy of Neurology
2014	Dale McFarlin Lecture at the International Society of Neuroimmunology Meeting
2015	Raymond Adams Prize, American Neurologic Association
2016	American Academy of Neurology Frontier Lecture at AAN meeting
2018	Elected to The National Academy of Medicine
2020	Elected to The Association of American Physicians

Major Research Interests:

1. Multiple sclerosis
2. Autoimmunity
3. Cancer Immunology

3. HTLV-1 associated myelopathy
4. Autoimmune diabetes
5. Medical Genetics

Present Funding Information (PI on grant on Project of PO1, RO1, U01, or U19)

P01 AI039671 (HAFLER) 08/15/17-07/31/22 NIH/NINDS Costimulatory Mechanisms of Autoimmunity Project 2 (Hafler) and Admin Core (Hafler) Autoimmune diseases are complex genetic disorders where many common allelic variations lead to disease risk. This understanding is key to developing new therapies. We have elucidated key pathways by performing association scans in patients with MS and T1D. Role: Project/Core Lead/Overall PI

P01 AI073748 (Hafler) 06/15/15 - 05/31/20 (no cost extension) TIM Family of Genes: Role in T cell Immunity and Tolerance: Project 2 The goal of this program project is to analyze the function of a newly discovered family of genes called TIM, TIM3 regulation of immune responses in the CNS in humans; and the regulation of transplantation tolerance. The goal of project 1 is to determine the roles of the TIM family of genes in regulating autoimmune T cell responses in mouse models. Role: Project Lead

Nancy Taylor Foundation for Chronic Diseases (Hafler PI) 10/01/17-09/30/21 Longitudinal, single-cell assessment to define the mechanism of B cell depletion therapy in autoimmunity Role: PI

NMSS RG-1802-30153 (Hafler, PI) 10/01/18-08/31/21 Longitudinal, single-cell assessment to define the mechanism of B cell depletion therapy in Multiple Sclerosis Our project combines cutting-edge technology for examining individual immune cells with the most critical open questions in MS: how do B cells contribute to disease and what is the mechanism of depleting B cells as an effective therapy?

P50CA121974 (Bosenberg/Kluger, Hafler Project Leader) 09/01/18-08/31/23 Project 2: Liquid Biopsies for Melanoma that Metastasizes to Inaccessible Sites The number of patients with metastatic melanoma and other tumor types receiving immune therapy is consistently growing, yet we still lack reliable means to predict who will respond and why some patients respond while others do not. One of the limitations to developing tests to predict and understand resistance is the need to conduct sequential biopsies on patients, which are often difficult or impossible and can be costly. Here we propose to develop novel methods to sample immune cells in the blood by isolating and studying cells that were previously in the tumor bed, to enable us to use a personalized medicine approach to patients receiving immune therapy.

Dept of Defense MS180194 (Hafler PI) 07/1/2019-06/30/2021 Stratifying Inflammatory and Degenerative Signatures in Progressive Multiple Sclerosis This study will integrate rich datasets spanning homeostasis and classic autoimmune and neurodegenerative diseases to provide to-date the most comprehensive dataset for biomarker development for progressive stages of MS. Sharing these data with the scientific community will allow for rapid validation of identified biomarkers in the clinic and provide the framework for future therapeutic development targeting both inflammatory and degenerative pathways in progressive MS. Role: PI

ASAP Grant (Hafler PI) 10/2020-9/2023 (Hafler PI) This is a \$9M grant awarded to Yale and the MGH to lead an effort to determine whether Parkinson's Disease is mediated by autoreactive T cells, and to examine the interactions between the gut microbiome, α -synuclein, and the brain.

Report of Teaching

1. Local Contributions Harvard College

1992-2002 Undergraduate Immunology Course

Harvard Medical School

1991-1996 Immunology Course Lecture on Autoimmunity (Harvard College)
1982-1989 Introduction to Clinical Medicine, Instructor
1989-1993 Human Nervous System and Behavior (New Pathway Second Year Course) Lecturer, Tutor, and "Triple Jump" Examiner (8 in tutorial) 10 weeks/year as Tutor
1991-1993 Invited Lecturer; Survey of Immunology Course
1992-1995 Invited Lecturer; HST Genetics Course
1995-1999 Invited Lecturer; HST-030 Pathology Course
1992- Invited Lecturer; Neurobiology of Disease Course
1997- Invited Lecturer; HST-030 Pathology Course
Invited Lecturer; Developmental Immunology Course Human Nervous System and Behavior, Alternate Tutor
Graduate School
1993-1996 Invited Lecturer; Developmental Immunology Course,
1992-1997 Invited Lecturer; Harvard-Markey Biomedical Scientist Program
1997- Invited Lecturer; Harvard Medical School Immunology Course

Brigham and Women's Hospital

1982-1989 Core Clerkship Instructor, Neurology, Brigham and Women's Hospital
1983, 85, 87 Neurology Grand Rounds, Brigham and Women's Hospital
90, 93, 95, 96, 98, 2002
1989, 1993 Rheumatology Grand Rounds

Yale University

2009- Course Director, Neurology Second Year
2010, 12 Yale Grand Rounds

Continuing Medical Education

1982, 90, Intensive Review of Neurology Course, Department of
91, 93, 96, 97 Neurology, Brigham and Women's Hospital
1984 Harvard Continuing Education Course -Immunology

Advising Responsibilities

Neurology House Staff Advisor
1 junior resident/year, available for counseling
Graduate Student Sponsor
1-2 graduate students/year in laboratory
Post-Doctoral Fellow Advisor
8 postdoctoral fellows/year in laboratory
Freshman Advisor, Jonathan Edwards College of Yale University

Teaching Leadership Roles

Harvard Medical School

1985 Director, Harvard Continuing Education Course Immunologic Disorders of the Nervous System: Diagnosis and Treatment
1997-2009 Curriculum Committee, HST program
2000-2009 Course Director, Clinical Immunology in the Division of Medical Sciences

Brigham and Women's Hospital

1991-1993 Director, Advanced Basic Science Course for Neurology Residents

Advisees and trainees

	Dates	Position	Current Affiliation
Michele Chofflon	1984-1987	Postdoctoral Fellow	Professor, U Geneva
Kohei Ota	1985-1989	Postdoctoral Fellow	Professor, Tokyo U. Science, Japan
Makoto Matsui	1989-1991	Postdoctoral Fellow	Professor, Kanazawa Medical U., Japan
Kai Wucherpfennig	1989-1992	Postdoctoral Fellow	Prof, Harvard Medical School
S.J. Lee	1988-1991	Postdoctoral Fellow	Professor, U. Ohio
Staley Brod	1987-1991	Postdoctoral Fellow	Professor, U. Texas
Janine LaSalle	1990-1993	Graduate Student	Professor, U.C. Davis
Per Höllsberg	1989-2008	Postdoctoral Fellow	Professor, Aarhus U., Denmark
Caroline Donnelly	1990-1993	Postdoctoral Fellow	Staff Scientist, Diacrin
Henry Oettinger	1990-1992	Postdoctoral Fellow	Staff Scientist, Diacrin
Jingwu Zhang	1991-1992	Postdoctoral Fellow	Head, Neuroscience Research, GSK
Wim Weber	1992-1994	Postdoctoral Fellow	Assoc. Prof., Maastricht, Netherland
Jennifer Richardson	1992-1993	Postdoctoral Fellow	Staff Scientist, Murdoch University
Silva Markovic-Plese	1991-1994	Postdoctoral Fellow	Professor, Univ of North Carolina
Anja Windhagen	1992-1993	Postdoctoral Fellow	Assoc Professor, Hannover, Germany
Fernando Dangond	1992-2006	Postdoctoral Fellow	Scientist, Biogen
Hikoaki Fukaura	1993-1995	Postdoctoral Fellow	Assoc Prof, Saitama Med. U., Japan
Lara Ausubel	1992-1997	Graduate Student	Staff Scientist
Noriaki Endo	1988-1989	Postdoctoral Fellow	Director, Teijin Pharma Co., Japan
Christian Scholz	1993-1996	Postdoctoral Fellow	Berlin, Germany
Katarzyna Bieganowska	1993-2006	Postdoctoral Fellow	NIH Program Officer
Sally Kent	1994-2008	Postdoctoral Fellow	Assoc Professor, Univ of Massachusetts
Alexander Dressel	1994-1997	Postdoctoral Fellow	Assoc Professor, Göttingen, Germany
David Anderson	1993-2000	Graduate Student	Assist. Professor, U.C. Davis
Hiroshi Takashima	1995-1996	Postdoctoral Fellow	Chief, Saga Prefect. Hosp. Koseikan, Japan
Rudolf Gausling	1995-1997	Postdoctoral Fellow	Palo Alto Medical Foundation
Bettina Kipp	1996-2006	Postdoctoral Fellow	Professor, Kenai Peninsula College, Alaska
Gilbert Semana	1996-1997	Sabbatical	Chief of Immunology, Rennes
Guy Buckle	1995-2001	Postdoctoral Fellow	Assist Prof, Harvard Medical School
Ramon Gimeno	1996-1997	Postdoctoral Fellow	Postdoctoral Fellow, NYU
Christina Trollmo	1996-2000	Postdoctoral Fellow	Assist Prof, Karolinska Institute

Dong-Gyun Lim	1997-2002	Instructor	Professor, Univ of Seoul
Petra Duda	1997-2000	Postdoctoral Fellow	Scientist, Biogen
Amit Bar-Or	1997-2000	Postdoctoral Fellow	Professor, McGill University
Mascha Schmied	1998-2000	Postdoctoral Fellow	Assist Prof, U of Vienna
Motohiro Yukitake	1998-2000	Postdoctoral Fellow	Senior Assist Prof, Saga Med. Sch., Japan
Enedina Oliviera	1998-2006	Postdoctoral Fellow	Assist Prof, Federal U of Sao Paolo
Clare Baecher-Allan	1999-2008	Postdoctoral Fellow	Assist Prof, Harvard Medical School
Jeffrey Krieger	1999-2006	Instructor	Chief Scientist, Peptimmune
Jacqueline Slavik	1999-2006	Postdoctoral Fellow	Instructor, Harvard Medical School
Kevin O'Connor	1999-2008	Postdoctoral Fellow	Associate Prof, Yale Univ School of Medicine
Vissia Viglietta	1999-2004	Postdoctoral Fellow	Industry
Yahua Chen	2000-2003	Postdoctoral Fellow	Prof, University of Penn
Guifang Cai	2000-2005	Postdoctoral Fellow	Harvard Medical School
Lisa Bregoli	2002-2006	Postdoctoral Fellow	Harvard Medical School
Li Xue	2002-2003	Postdoctoral Fellow	Dana Farber Cancer Institute
Khadir Raddassi	2003-present	Assoc Rsrch Scientist	Instructor, Yale Univ School of Medicine
Paramita Mukherjee	2003-2004	Postdoctoral Fellow	Univ of Washington
Ken Koguchi	2003-2005	Postdoctoral Fellow	Harvard Medical School
Anne Astier	2004-2006	Postdoctoral Fellow	Assoc Prof, Univ of Edinburgh
Li Yang	2005-2008	Postdoctoral Fellow	Beckman Coulter
William Hastings	2005-2009	Postdoctoral Fellow	Industry
Gaelle Beriou	2005-2009	Postdoctoral Fellow	Industry, France
Lisa Maier	2006-2009	Postdoctoral Fellow	Industry
Simon Willis	2006-2010	Postdoctoral Fellow	Industry
Cristina Costantino	2006-2010	Graduate Student	Mt Sinai Medical Ctr
Jon Hutton	2007-2008	Postdoctoral Fellow	Industry
Elizabeth Bradshaw	2007-2010	Postdoctoral Fellow	Prof Columbia University
Christopher Severson	2007-2010	Postdoctoral Fellow	Asst Prof Harvard Medical School
Hiroyuki Onoue	2008-2010	Postdoctoral Fellow	Assist Prof., Ntn'l. Def. Med. College
Marga Dominguez Villa	2009-2018	Postdoctoral Fellow	Asst Professor, Imperial College, UK
Ester Lozano	2009-2013	Postdoctoral Fellow	Clinic de Barcelona, Spain
Markus Kleinewietfeld	2009-2013	Postdoctoral Fellow	Scientist, UHasselt
David Kofler	2009-2013	Postdoctoral Fellow	University Hospital Cologne, Germany
Anne-Sophie Gautron	2009-2013	Postdoctoral Fellow	Postdoc, Yale Univ School of Medicine
Yonghao Cao	2010-2017	Postdoctoral Associate	ARS, Yale Univ School of Medicine
Joel Stern	2011-2013	Postdoctoral Fellow	Assistant Professor, Hofstra University
Daniel Lowther	2011-2015	Postdoctoral Associate	Senior Scientist, Adaptimmune Ltd.
Will Housley	2011-2016	Postdoctoral Fellow	Senior Scientist, Abbvie Pharmaceuticals
Amanda Hernandez	2012-present	Graduate Student	Hospital Resident, Yale School of Medicine
Siobhan Ni Choileain	2012-2018	Postdoctoral Associate	Industry
Yael Abadi	2014-2015	Postdoctoral Associate	Postdoc, Yale Univ School of Medicine
Alexandra Kitz	2014-2019	Postdoctoral Fellow	Industry
Liliana Lucca	2014-Present	Postdoctoral Associate	ARS, Yale Univ School of Medicine
Alicia Nylander	2014-2018	Graduate Student	Neuroimmunology Fellow, UCSF
Anne Chastre	2014-2016	Postdoctoral Associate	Postdoc, Yale Univ School of Medicine

Jenna Pappalardo	2015-Present	Graduate Student	
Saige Pompura	2015-Present	Graduate Student	
Tomokazu Sumida	2015-2020	Postdoctoral Fellow	Assist Prof, Yale Univ School of Medicine
Pierre-Paul Axisa	2015-Present	Postdoctoral Associate	Postdoc, Yale Univ School of Medicine
Chryssa Zografou	2016-2018	Postdoctoral Fellow	
Matthew Lincoln	2016-Present	Postdoctoral Fellow	Instructor, Yale Univ School of Medicine
Hiromitsu Asashima	2018-Present	Postdoctoral Fellow	
Jessica Wei	2019-Present	Postdoctoral Fellow	
Michela Comi	2018-Present	Postdoctoral Associate	

2. Regional, National, and International Contributions

Invited Presentations

Regional/National

- 1988 Clinical Pathological Conference, Massachusetts General Hospital
- 1991 FASEB Autoimmunity Conference, Saxton River, VT
Research Update, Pfizer Inc.
Research Seminar Series, Department of Immunology, Cornell University Medical College
Multiple Sclerosis Update Series, Continuing Medical Education, The University of Texas Health Science Center at Houston
Basic Neuroscience Seminar, Massachusetts General Hospital
Seminars in Medicine, Beth Israel Hospital
Neuroimmunology Course, Woodshole, MA
- 1992 Research Seminar Series, University of Miami, Department of Immunology and Microbiology
Neurological Consequences of Immune Dysregulation: Lessons from HIV Infection and Multiple Sclerosis
National Multiple Sclerosis Society Meeting, Sanibel Island, FL
Neurology Grand Rounds, T cell specificity and Multiple Sclerosis
College of Physicians and Surgeons of Columbia University
Seminars in Research Medicine
The Rockefeller University
Departments of Biochemistry and Microbiology, Emory University
Grand Rounds, Massachusetts Eye and Ear Infirmary
National Multiple Sclerosis Society, Massachusetts Chapter
Stanley F. Waterman Memorial Lecture
Immunology Research Seminar Series, University of Massachusetts
- 1993 Neuroimmunology Symposium, Clinical Immunology Society, Grand Rounds; University of Maryland School of Medicine
NIH Immunology Series,
The Research Symposium, Los Angeles, CA
National Multiple Sclerosis Society
Scientific Affairs Seminars

Molecular Biology Department, Boehringer
Immunology Colloquium Distinguished Speaker Series, University of Pennsylvania
Immunology Graduate Group
Immunology Lecture Series, Tufts University

- 1994 Clinical Immunology Society, Anaheim, CA
New York Academy of Science Meeting on T-cell Receptor use in Human
Autoimmune Diseases, San Diego, CA
American Academy of Neurology Course on Immunotherapy, Washington, D.C.
American Diabetes Association Meeting
New Orleans, Louisiana
NIH and American Academy of Allergy & Immunology Joint Meeting on Vaccines,
New Approaches, Bethesda, MD
Neuroimmunology Course, Woodshole, MA
The Cambridge Hospital, Cambridge, MA
- 1995 Dartmouth Medical School Department of Immunology, Hanover, NH
Third Annual Conference on Vaccines
Alexandria, VA
Stanford University Department of Immunology Immunology Series, Palo Alto, CA
American Association of Immunology Meeting, Atlanta, GA
Lecturer, American Academy of Neurology Course on Immunotherapy, Washington,
D.C.
Distinguished Lecturer Series, University of Tennessee, Knoxville, TN
IBC Course on Multiple Sclerosis
FASEB Conference on Autoimmunity, Saxtons River, VT
Neuroimmunology Course, Woodshole, MA
Clinical Pathological Conference, Massachusetts General Hospital
- 1996 American Society for Neurochemistry, Annual Meeting, Philadelphia, PA
IRC Conference on Multiple Sclerosis, Cambridge, MA
IBC Conference on Advance in Multiple Sclerosis, San Francisco, CA
American Thyroid Association, San Diego, CA
Frontiers of Neurology, Cornell Medical College, NYC, NY
Kunkel Society, Rockefeller University, NYC, NY
Immunology Lecture Series, University of Cincinnati, Ohio
Grand Rounds, Massachusetts General Hospital
- 1997 Immune Regulatory Pathways in Autoimmune and Neuroimmunologic Diseases,
Tuscon, AZ
American Society of Clinical Investigation Meeting, Washington, DC
Yale-New Haven Hospital Grand Rounds, New Haven, CT
Speaker, FASEB Summer Research Conferences: Autoimmunity, Saxtons River, VT
Immunology Lecture Series, Emory University, Atlanta, GA
Immunology Lecture Series, Tufts University
Graduate Program in Immunology, Tufts University School of Medicine, Boston, MA
Minisymposium: Cytokines in Pathogenesis and Treatment of Autoimmune Disease,
AAAAI/AAI/CIS, San Francisco, CA
- 1998 International Congress Th1 and Th2 T cells in Multiple Sclerosis Savannah, GA
Kroc Visiting Professor, Barbara Davis Diabetes Center and National Jewish Hospital,
Denver, CO
NIAID 50th Anniversary Symposium: Vaccine for the Prevention and Treatment of
Autoimmune Diseases, NIH Conference, Bethesda, MD

- Charles H. Ross Jr. HTLV Symposium, Charlottesville, VA
 Diabetes Mellitus: From Patients to Genes and Back, A Symposium on the 100th Anniversary of the Joslin Diabetes Center, Boston, MA
 Antigen Presentation: Basic Biology and Applications to Autoimmune Disease, San Diego, CA
- 1999 Symposium on CD1, San Diego, CA
 Keystone Symposium on Antigen Presentation, Taos, NM
 Keystone Symposium on Inflammatory Neurologic Disease, Taos, NM
 Immunology Council Seminar Series, Johns Hopkins University, Baltimore, MD
 Workshop on NK T cells and CD1 Mediated Antigen Presentation, San Diego, CA
 CIS 14th Annual Conference on Clinical Immunology, Washington D.C.
 5th International Symposium on Clinical Immunology, Washington D.C.
 American Academy of Neurology, 51st Annual Meeting, Toronto, Canada
 University of California, San Francisco Neurology Grand Rounds, San Francisco, CA
 Meeting on Nervous System Involvement in Systemic Lupus Erythematosus (NIAMS), Bethesda, MD
 New Approaches to Identifying Infectious Etiologies of Chronic Disease, Rockville, MD
 FASEB Summer Research Conference, Saxtons, VT
 Advances in Multiple Sclerosis, Cornell University, New York, NY
 Changing the Course: New Perspective on Multiple Sclerosis, Holy Name Hospital, Teaneck, NJ
 Beyond the Basics: MS Insights and Answers, Woburn, MA
- 2000 Workshop on Future Directions in Prevention of Type I Diabetes, Miami, FL
 Grand Rounds, Albert Einstein College of Medicine, Yeshiva University, Bronx, NY
 HTLV-1 Molecular Biology and Pathogenesis, Warrenton, Virginia
 American Society of Neurochemistry Annual Meeting, Chicago IL
 Grand Rounds Lecture to Neurology, Neuroradiology and Neurosurgery, Cornell Medical Center, New York, NY
 American Academy of Neurology Annual Meeting, San Diego, CA
 Joint Meeting of the CIS and AAI, Seattle, WA
 2nd Annual Symposium of the Maine Neurological Society, Rockland, ME
 NIAID- Bioethical Implications of Stored Specimens and the Impact on the Informed Consent, Bethesda, MD
 Enhancing Clinical Research Sjogren's Syndrome: Critical Issues, Bethesda, MD
 Mechanisms of Neuroinflammation, Ryebrook, NY
 Grand Rounds, Georgetown University, Washington, D.C.
- 2001 Grand Rounds, Emory School of Medicine, Emory University, Atlanta GA
 Immunoregulatory Mechanisms that inhibit autoimmunity in Neurodegenerative Diseases. Research to Prevent Blindness, Washington University in St. Louis,
 Immunopathogenesis of Multiple Sclerosis as it relates to Treatment Decisions.
 American Association of Immunologists (AAI) Annual Meeting,
 Treating MS: Disease-Altering Therapies and symptomatic Management, University of South Florida, Tampa, FL
 Regulation of T Cell Response in Human Autoimmune Disease, University of Massachusetts Medical School, Dept of Pathology, Worcester, MA
- 2002 6th International Congress of the International Diabetes Society and the American Diabetes Society, Colorado
 New Approaches to Autoimmunity, T Regulatory Cells in Autoimmune Disease,
 American Society for Histocompatibility and Immunogenetics, Annual Meeting, Tennessee

American College of Rheumatology, 66th Annual Scientific Meeting, Louisiana

- 2003 Plenary Speaker, Keystone Symposium on Mechanisms of Immunologic Tolerance and its Breakdown, Salt Lake City, UT
NIAID Prevention Centers of Autoimmunity consortium, Stanford, CA
Immunology Workshop on Pure Red Cell Aplasia, NY
Plenary Speaker, FASEB Conference on Autoimmunity, Saxtons River, VT
Speaker, Glutamic Acid Decarboxylase (GAD) Autoimmunity in Batters Disease, Bethesda MD
Plenary Speaker, American College of Neuropsychopharmacology (ACNP) Annual Meeting 2003, Panel Presentation for "Immunotherapies for CNS diseases", New Haven CT
- 2004 Plenary Speaker, Keystone Symposium on Regulatory T cells, Banff, Canada
Johns Hopkins, Immunology Seminar Series
Rare Neuroimmunologic Disease Syndrome, Baltimore, MD
Grand Rounds, Georgetown University Department of Neurology
- 2005 Plenary Speaker, Keystone Symposium on Translational Medicine in Autoimmunity, Big Sky, MT
Grand Rounds, Geisinger Medical Center, Danville, PA
Grand Rounds, Columbia University, New York, NY
Guest Speaker, National Multiple Sclerosis Society, Eastern North Carolina Chapter, Raleigh, NC
Beckman Coulter Systems Biology Symposium, Ontario, Canada
Plenary Speaker, FASEB Conference on Autoimmunity, Saxtons River, VT
- 2006 Plenary Speaker, Keystone Symposium, HIV,
Plenary Speaker, Degeneracy and Complexity in the Immune System, Santa Fe Institute
Neurology Grand Rounds, University of North Carolina, Charlotte, NC
Neurology Grand Rounds, Johns Hopkins, Baltimore, MD
Plenary Speaker, American Association of Immunology
- 2007 NIH NINDS Council Presentation, Bethesda, MD
Immunology Seminar Speaker, University of Pennsylvania, Philadelphia, PA
Plenary Speaker, Kunkel Society Annual Meeting, Rockefeller University, NYC, NY
Plenary Speaker, Beckman Science and Technology Symposium, Los Angeles, CA
Speaker, FASEB Autoimmunity Conference, Saxton River, VT
Plenary Speaker Emory Vaccine Science Conference, Atlanta, GA
Speaker, NMSS Georgia Chapter Annual Meeting, Atlanta, GA
Grand Rounds, University of Miami/Miami Institute for Human Genomics, Miami, FL
Plenary Speaker, B Cells in Autoimmunity and MS Symposia, Santa Monica, CA
- 2008 Grand Rounds, Albert Einstein College of Medicine, New York, NY
Speaker, Human and Translational Immunology Seminar, Yale University, New Haven, CT
Plenary Speaker, Keystone Symposium, Tolerance in Transplantation & Autoimmunity, Keystone, CO
Grand Rounds, University of California, Los Angeles, CA
T Cell Regulation and Autoimmunity, Newport Beach, CA
Neurology Grand Rounds, NewYork Presbyterian Hospital, New York, NY
Seminar Speaker, Baylor College of Medicine, Houston, TX
Chair, Inflammatory CNS Disease, Washington, D.C.

- Plenary Speaker, FASEB, Neural-Immune Interaction:
Speaker, NMSS, Greenwich, CT
- 2009 Plenary Speaker, Keystone Symposia, Santa Fe, New Mexico
Plenary Speaker, Keystone Symposia, Vancouver, British Columbia
Keynote Speaker, University of Michigan MS Center Seminar Series
Plenary Speaker, FASEB, Saxtons River, VT
- 2010 Grand Rounds presenter, New York Presbyterian Hospital/Weill Cornell Medical Center, New York, NY
Presenter, New York University School of Medicine CME course, "Emerging Trends in MS: Mechanisms and Treatment", New York, NY
Presenter, HIPC Face-to-Face Meeting, Bethesda, MD
- 2011 Invited lecture, TGF- β Keystone Symposium, Snowbird, Utah
Grand Rounds presenter, Mayo Clinic, Rochester, MN
Visiting Speaker, University of Chicago Translational Immunology Seminar Series, Chicago, IL
Invited lecture, Boehringer Ingelheim International Biotherapeutics Meeting, Boston, MA
- 2012 Seminar Speaker, University of Connecticut Immunology Seminar Series, Farmington, CT
Invited lecture, University of Virginia Neuroimmunology Seminar, Charlottesville, VA
Grand Rounds presenter, Harvard University/Massachusetts General Hospital, Boston, MA
Invited lecture, Consortium of Multiple Sclerosis Centers CME presentation, Coral Gables, FL
Guest Symposium, American Association of Immunologists annual meeting, Boston, MA
Grand Rounds presenter, Brown University, Providence, RI
Invited Speaker and roundtable discussion leader, American Neurological Association annual meeting, Boston, MA
Invited Speaker, International Congress of Neuroimmunology, Boston, MA
Invited Speaker, American College of Rheumatology annual meeting, Washington, DC
Invited Speaker, Fred Plum Symposium, Weill-Cornell Medical Center, New York, NY
- 2013 Grand Rounds presenter, Georgia Health Sciences University, Augusta, GA
Invited Seminar Speaker, Dept of Microbiology and Immunology, University of North Carolina at Chapel Hill, Chapel Hill, NC
Workshop presenter, Juvenile Diabetes Research Foundation, New York, NY
Grand Rounds presenter, New York Presbyterian Hospital-Weill Cornell Medical Center, New York, NY
Invited Speaker, Cleveland Clinic, Cleveland, OH
Invited Speaker, MS Leadership Summit, New York Academy of Sciences, New York, NY
Invited Speaker, Consortium of Multiple Sclerosis Centers annual retreat, Orlando, FL
Invited Speaker, Federation of American Societies for Experimental Biology conference, Saxtons River, VT
Invited Speaker, National Multiple Sclerosis Society Northeast Regional Research Symposium, Boston, MA
Invited Speaker, Cooperative Study Group for Autoimmune Disease Prevention Summit, New York City, NY

- Invited Speaker, Byron Waksman Symposium, Yale University, New Haven, CT
 Invited Speaker, Schumacher Lecture at University of Vermont Medical Center, Burlington, VT
 Invited Speaker, American Society for Histocompatibility and Immunogenetics annual meeting, Chicago, IL
- 2014 Invited Speaker, Columbia University Microbiology and Immunology Seminar Series, New York, NY
 Invited Speaker, American Society of Clinical Oncology annual meeting, Chicago, IL
 Invited Speaker, EMD Serono Journal Club, New York, NY
 Invited Speaker, EMD Serono Journal Club, Cambridge, MA
 Invited Speaker, ImmunoGenomics Symposium, Farmington, CT
 Invited Speaker, Glioblastoma Symposium, *Bristol-Myers Squibb*, Miami, FL
 Invited Speaker, Center Without Walls Symposium, Multiple Sclerosis Forum, Los Angeles, CA
 Invited Speaker, EMD Serono, San Francisco, CA
 Presenter, HIPC Face-to-Face Meeting, Bethesda, MD
- 2015 Invited Speaker, Grand Rounds, Albert Einstein College of Medicine, Bronx, NY
 Invited Speaker, Grand Rounds, NYU Langone Medical center, NY
 Presenter, FASEB Autoimmunity Conference 2015, Itasca, Illinois
 Lecturer, 2015 AAI Advanced Course in Immunology, Boston MA
 Invited Speaker, Neurology Grand Rounds, University of Pennsylvania, Philadelphia, PA
 Plenary Speaker, New England Immunology Conference, Woods Hole, MA
 Invited Speaker, RIA Research Scientific Advisory Board, Gaithersburg, MA
- 2016 Invited Speaker, Grand Rounds, College of Physicians & Surgeons of Columbia University, New York, NY
 Invited Speaker, Grand Rounds, University of Massachusetts, Worcester MA
 Frontier Lecture, American Academy of Neurology
 Invited Speaker, EMD Serono Journal Club, New York, NY
 Invited Speaker, Cancer Immunotherapy and Biofluid Biopsies Conference, Boston MA
 Invited Speaker, American College of Rheumatology annual meeting, Washington, DC
- 2017 Invited Speaker, Grand Rounds, Thomas Jefferson University, Philadelphia, PA
 Invited Speaker, Grand Rounds, Albert Einstein College of Medicine/Montefiore Medical Center, Bronx, NY
 Presenter, HIPC Face-to-Face Meeting, Potomac, MD
 Invited Speaker, FOCIS 2017, Chicago, IL
 Invited Speaker, FASEB 2017, Saxtons River, VT
 Invited Speaker, AAI, Boston, MA
 Invited Speaker, Cambridge/Yale Symposium, New Haven, CT
- 2018 Grand Rounds Speaker, Boston University, Boston, MA
 Seminar Speaker, Weill Cornell University, New York, NY
 Grand Rounds, University of Miami, Miami, FL
 Symposium Speaker, NIH, Autoimmunity of Cancer, Bethesda, MD
 Plenary Speaker, FOCIS, San Francisco, CA
 Grand Rounds Speaker, New York University, New York, NY
 Plenary Speaker, AAI, T Cell Tolerance & Autoimmunity, Boston, MA
- 2019 Grand Rounds Speaker, University of New Mexico, Albuquerque, NM
 Seminar Speaker, Washington University, St. Louis, MO

Invited Speaker, NIH - American Association for Cancer Research Bethesda, MD
 Invited Speaker, AAI Major Symposium, San Diego, CA
 Invited Speaker, Stanford University Immunology Seminar Series, Palo Alto, CA
 Invited Speaker, TREG Directed Therapies Summit, Boston, MA
 Invited Speaker, Ann Romney Center for Neurologic Diseases Symposium, Boston, MA
 Invited Speaker, FASEB Conference on Autoimmunity, Pacific Grove, CA

2020 Invited Speaker, Immune Cell Adaptation in Health and Disease Human Brain,
 Albert Einstein College of Medicine, New York City, New York
 Invited Speaker, Inflammation/Neuroscience, Yale Medicine Discovers, Palm Beach
 Bath & Tennis Club, Palm Beach, Florida

International

- 1991 T cells and Cytokines in Health and Disease
 Trinity College, Oxford, United Kingdom
 Visiting Professor; Walter and Eliza Hall Institute of Medical Research, Victoria,
 Australia
 Conferencia de Neuroimmunologica
 Universidad Libre de Colombia, Barranquilla, Colombia
 International Symposium on Advances in the Immunology of Multiple Sclerosis,
 Fondazione Carlo Erba,
 Milano, Italy

- 1992 Second International Symposium on the Immunotherapy of the Rheumatic Diseases,
 Brighton, United Kingdom
 The International Conference on Cellular and Molecular Mechanisms of Self
 Reactivity and Autoimmune Diseases, Taormina, Italy
 International Meeting on Mucosal Inflammation Florence, Italy
 International Clinical Immunology Society, Molecular Biology in Clinical Diagnosis

- 1993 A Multidisciplinary Approach to Myelin Diseases (NATO Conference), Rome, Italy
 New Strategies for Immunomodulation for Autoimmune Diseases, Academisch
 Ziekenhuis Lieden, The Netherlands
 Jornadas Internacionales Conmemorativas XXX Aniversario de AVEPANE,
 Asociacion Venezolana de Padres y Amigos de Ninos Excepcionales, Caracas,
 Venezuela
 T cells and Cytokines in Health and Disease
 Trinity College, Oxford, United Kingdom
 Fifth International Conference on Human Retrovirology: HTLV, Kumamoto, Japan
 Roche-Milano Research Opening Symposium
 Towards Selective Immunotherapy of Autoimmune Diseases, Milan, Italy
 T cells in inflammation, International Congress on Inflammation, Vienna, Austria
 Autoimmune Disease, British Society for Immunology, Annual Congress, Brighton,
 United Kingdom

- 1994 Minisymposium on "Tolerance Induction", Academisch Ziekenhuis Leide, Amsterdam
 9th Annual Neuroscience Symposium, College of Medicine, King Saud University
 Inserm, Hospital Necker, Paris
 Hopital de la Salpetrier, Paris
 Simposio Internacional de Neuroimmunologia, Sao Paulo, Brazil
 Arthritis and Autoimmunity Symposium. Sigrid Juselius Foundation, Turku University
 Medical School, Turku, Finland

- VIth International Retrovirology Association Conference
 VIth International Symposium of the Immunology and Immunopathology of the Eye
 T cells and Cytokines in Health and Disease
 Trinity College, Oxford, United Kingdom
- 1995 Third International Workshop on Synovitis, Leiden, The Netherlands
 XIIIth European Congress of Rheumatology, Amsterdam, The Netherlands
 Third International Symposium on the Immunotherapy of the Rheumatic Diseases, Cyprus
 VIII International Immunology Congress, San Francisco, CA
 The 11th European Congress on Multiple Sclerosis, Jerusalem, Israel
 Joint Annual Meeting Österreichische Gesellschaft für Immunologie Vienna, Austria
- 1996 B Lymphocytes and Autoimmunity, Prague, Czech Republic
 Invited Speaker; T cells and Cytokines
 Trinity College, Oxford, United Kingdom
- 1997 International HTLV-I Meeting, Rio de Janeiro, Brazil
 European Network of Immunology Institutes, Molecular and cellular components of the immune system, Les Embiez, France
 Ciba Foundation Symposium, Immunological Tolerance, London, UK
 Regulation of Autoimmunity: Diabetes, EAE/MS, Arthritis, Genova, Italy
 16th International Diabetes Federation Congress, Helsinki, Finland
- 1998 3rd International Conference on New Trends in Clinical and Experimental Immunosuppression, Geneva, Switzerland
 Koninklijke Nederlandse Akademie van Wetenschappen (Netherland Academy of Science) Colloquium on Autoimmune Disease
 Distinguished Lecture Series of the Robarts Research Institute, London, Ontario.
 Autoimmune Disease, Basic Mechanism and Clinical Relevance, Mallorca, Spain
 Manipulating the Immune Response for Prevention and Cure of Insulin Dependent Diabetes, Oxford, England
 International Symposium, Immunoregulation and Multiple Sclerosis – Basic Understanding and Therapeutic Implications, Japan
 5th International Meeting on the Genetics, Pathogenesis, and Therapy of Type 1 Diabetes, Erice, Italy
- 1999 International Clinical Immunology Society, Washington, DC
 Viruses and Multiple Sclerosis, Brighton, UK.
 Oxford University Institute of Molecular Medicine, UK
 3rd International Congress of Clinical Immunology, Israel
 2nd International Congress on Autoimmunity, Tel Aviv, Israel
 Xth Panamerican Congress of Neurology, Caragena de Indias, Colombia
- 2000 Autoimmunity: 2000 and Beyond, 8th International Conference, Newport Beach, CA
 Tolerance and Autoimmunity-Insights into induction and regulation of autoimmunity, Cairns, Australia
- 2001 10th International Conference on Human Retrovirology, Chair: Immunology and Immunopathogenesis, Trinity College, Oxford, UK
 11th International Congress of Immunology, Stockholm, Sweden
 10th International Congress of Neuroimmunology, Edinburgh, Scotland
 Immunomodulation and Induction of Tolerance in Multiple Sclerosis, Paris, France
 ICI Executive Committee, Montreal, Canada
- 2002 Autoreactivity in MS and use of Antigens to Treat the Disease, Japan

- Generation and Effector Functions of Regulatory Lymphocytes, Novartis Foundation, London, England
 Multiple Sclerosis: Genetics, Pathogenesis and Therapy, Benzon Symposium, No. 49, Copenhagen, Denmark
 British Society of Immunology/Society's Annual Congress, Joint Congress, London
- 2003 Plenary Speaker, Unzen Workshop on Immunoregulation and Autoimmunity, Japan
 Plenary Speaker, Translational Research in Autoimmunity, Portofino, Italy
 16th Annual Meeting of Japanese Society for Neuroimmunology, Division of Neurology, Department of Internal Medicine, Saga Medical School, Japan
 Plenary Speaker, 18th International Diabetes Federation Congress, Paris, France
 From the Laboratory to the Clinic, Trinity College, Oxford, England
- 2004 Plenary Speaker, International Congress of Immunology, Plenary Talk, Montreal Canada
 Plenary Speaker, International Transplant Society Plenary Talk, Vienna, Austria
 ECTRIM Meeting Plenary Talk, Vienna, Austria
 Plenary Speaker, Croatian Immunology Society Meeting, Zagreb, Croatia
 Plenary Speaker, Autoimmunity Meeting, Plenary Talk, Budapest, Hungary
- 2005 Plenary Speaker, New Frontiers in MS Research: From Immune Regulation to Myelin Regeneration, Udine, Italy
 Plenary Speaker, International Symposium on New Approaches to Understanding the Basis of Multiple Sclerosis, Valencia, Spain
 Plenary Speaker IUIS Symposium on Clinical Immunology, Rio de Janeiro, Brazil
 Plenary Speaker, Combined German and Scandinavian Immunology Society meeting in Kiel, Germany
- 2006 Plenary Speaker, ECTRIM, Madrid Spain
 Plenary Speaker, International Society Neuroimmunology, Nagoya, Japan
 Life Sciences Genetic Workshop, Karolinska Institute, Sweden
 Plenary Speaker, European Federation of Immunology Societies, Paris, France
 Immunology Graduate Course, Goa, India
 Speaker, CIMBR Immunology Series, Cambridge, UK
- 2007 Plenary Speaker, World Transplant congress, Boston, USA
 Plenary Speaker, World Congress on Trauma, Shock, Inflammation and Sepsis, Munich, Germany
 Speaker, Life Sciences Genetics, Karolinska Institute, Sweden
 Plenary Speaker, Optimal Immunotherapies for Type 1 Diabetes, Novartis Foundation, London, England
 Plenary Speaker, International Congress of Immunology, Rio de Janeiro, Brazil
 Plenary Speaker, ECTRIM Meeting Plenary Talk, Prague, Czechoslovakia
 Plenary Speaker, Annual Meeting of the German Society for Immunology, Heidelberg, Germany
 Gottingen Honorary MS Lecture, Gottingen, Germany
- 2008 Invited Speaker, MS Symposium, Zurich, Switzerland
 Plenary Speaker, Pan-American Society of NeuroVirology, Guadalajara, Mexico
 Plenary Speaker, Wings for Life Symposium, Salzburg, Austria
 Invited Lecture, San Raffaele Scientific Institute, Milan, Italy
 Plenary Speaker, Kunkel Society Annual Meeting, Santa Marherita Ligure, Italy
 Speaker, Inaugural Consensus Conference, Eureka Institute for Master of Translational Medicine Program, Siracusa, Italy
 Plenary Speaker, Gordon Research Immunobiology Conference, Oxford, UK

- Keynote Speaker, British Society for Human Genetics, Cambridge, UK
 Plenary Speaker, 44th Turkish Neurological Congress, Antalya, Turkey
 Plenary Speaker, International Symposium of Applied Genomics, Tokyo, Japan
 Plenary Speaker, SSIF Conference “Genetics of Autoimmune Disease”, Barcelona, Spain
- 2009 Plenary Speaker, Centre for Inflammation Research, Edinburgh, UK
 Plenary Speaker, IMSGC, Sanger, UK
 Plenary Speaker, Fifth Dubrovnik Conference, Croatia
 Plenary Speaker, Eureka Institute Intl Certificate Program, Siracusa, Italy
 Invited Lecture, European Society of Human Genetics, Vienna, AT
 Invited Lecture, T Cell Meeting Marburg, Germany
 Plenary Speaker, World Congress on Inflammation Tokyo, Japan
 Plenary Speaker, The 5th RCAI-JSI International Symposium on Immunology 2009, Yokohama, Japan
- 2010 Invited Lecture, Japanese Society for Neuroimmunology
 Invited Lecture, Autoimmunity and Immune Mediated Disorders Workshop, San Raffaele Scientific Institute, Milan, Italy
 Invited Lecture, Eureka Institute Intl Certificate Program, Siracusa, Italy
 Plenary Speaker, Tregs/Th17 Conference, Shanghai, China
 Invited Lecture, International Congress of Immunology, Kobe, Japan
 Invited Lecture, Yale-Cambridge University Joint Research Program, Cambridge, UK
- 2011 Invited Lecture, SGAI-SSAI Annual Congress, Lugano, Switzerland
 Invited Lecture, Eureka Institute Intl Certificate Program, Siracusa, Italy
 Invited Lecture, Consortium of Multiple Sclerosis Centers Annual Meeting, Montreal, QC
 Visiting Scholar Lecture, Neuroinflammation Training Program, McGill University Health Centre, Montreal, QC
 Invited Lecture, Herrenhausen Symposium on Autoimmunity, Seeon, Germany
 Plenary Speaker, International Conference on Immune Tolerance, Amsterdam, Netherlands
 Indo-US Workshop on Measuring Human Immune Responses, Gurgaon, India
- 2012 Invited Lecture, Winter School of Immunology, Jodhpur, India
 Invited Lecture, Eureka Institute Intl Certificate Program, Siracusa, Italy
 Invited Lecture, Blankenese Conference, “Neurodegeneration: From Multiple Sclerosis to Alzheimer’s Disease,” Hamburg-Blankenese, Germany
 Invited Speaker, ECRC Franz-Volhard Symposium, Berlin, Germany
 Invited Lecture, Yale-Cambridge University Joint Research Program, Cambridge, UK
 Invited Lecture, Japanese Society for Neuroimmunology and Japanese MS Workshop, Karuizawa, Japan
 Invited Lecture, Tregs/Th17 Conference, Shanghai, China
- 2013 Invited Speaker, Keystone Symposia, Whistler, British Columbia, Canada
 Invited Speaker, Crafoord Prize Lectures & Prize Symposium, Stockholm, Sweden
 Invited Speaker, Eureka Institute International Certificate Program, Siracusa, Italy
 Invited Speaker, Serono Symposium annual meeting in Multiple Sclerosis, Istanbul, Turkey
 Invited Speaker, IMSGC face-to-face meeting, Paris, France
 External Reviewer, New Program Proposal for Professional Master’s in Translational Research Institute of Medical Science, Faculty of Medicine, University of Toronto, Toronto, Ontario
 Invited Speaker, International Congress of Immunology annual meeting, Milan, Italy

Invited Speaker, "From the Laboratory to the Clinic: Novel Therapeutic Targets,"
Trinity College, Oxford, UK
Invited Speaker, Istanbul MS Days, Istanbul, Turkey

- 2014 Invited Speaker, Keystone Symposia on Inflammatory Diseases, Vancouver, BC
Invited Speaker, University of Toronto Division of Neurology Faculty Research Day, Toronto, ON
Plenary Speaker, Conference at ICM – Institut du Cerveau et de la Moelle épinière, Paris, France
Invited Speaker, IBD conference, European Postgraduate Gastro-Surgical School, Amsterdam, Netherlands
Invited Speaker, Eureka Institute International Certificate Program, Siracusa, Italy
Invited Speaker, Be The Cure for Rheumatoid Arthritis Tolerance Workshop
Karolinska University, Sigtuna, Sweden
Invited Speaker, Annual European Congress of Rheumatology, Paris, France
Invited Speaker, RIKEN Center for Integrative Medical Sciences-Japanese Society for Immunology International Symposium on Immunology, Yokohama, Japan
Plenary Lecture, Japanese Society of Neuroimmunology, Kanazawa, Japan
Barcelona Keynote Opening Address, ECTRIM/ACTRIM Meeting, Boston, MA
Dale McFarlin Lecture, International Society of Neuroimmunology
Invited Speaker, Regulatory T Cells & The Subsets & Clinical Application in Human Disease, Shanghai, China
Invited Speaker, 12th ISNI Congress, Mainz Germany
- 2015 Invited Speaker, Larnaca ECTRIM meeting, Larnaca, Cyprus Turkey
Plenary Speaker, Edinburgh International Conference Centre (EICC), Edinburgh, Scotland
Plenary Speaker, 4th European Congress of Immunology, Symposium "Th17 cells in human health and disease", Vienna, Austria
Invited Speaker, EUTRAIN/TRiPR Conference, Genova, Italy
Plenary Speaker, Istanbul MS Days 2015 Scientific Program, Istanbul, Turkey
Keynote Speaker, Japan Society of Immunology Annual Meeting, Sapporo, Japan
- 2016 Lecture, Departmental Infection and Immunity Series, McGill University, Quebec, Canada
Plenary Speaker, Conference at ICM – Institut du Cerveau et de la Moelle épinière, Paris, France
Invited Speaker, Eureka Institute International Certificate Program, Siracusa, Italy
Invited Speaker, Scandinavian Immunology meeting, Turku, Finland
Invited Speaker, "From the Laboratory to the Clinic: Getting Closer to a Cure," Trinity College, Oxford, UK
Invited Speaker, SingHealth Duke-NUS Scientific Congress 2016, Singapore
Invited Speaker, 13th International Congress of Neuroimmunology, Jerusalem, Israel
Invited Speaker, 10th European Workshop - Immune- Mediated Inflammatory Diseases, Toulouse, France
- 2017 Invited Speaker, Keystone Symposia on Immune Regulation in Autoimmunity and Cancer, British Columbia BC VON, Canada
Invited Speaker, The 1st Nanjing International Forum on Immunology, Jiangsu Province, China
Invited Speaker, Eureka Institute International Certificate Program, Siracusa, Italy
Plenary Speaker, ECTRIMS/ACTRIMS, Paris, France
Invited Speaker, Sociedad Científica Argentina Program, Buenos Aires, Argentina

Invited Speaker, CSH Conference, Jiangsu Province, China
Invited Speaker, 2017 Istanbul MS Days, Kyrenia, Cyprus

- 2018 Keynote Speaker, Immunology of Diabetes Society Meeting, London, UK
Plenary Talk, TREG Meeting, Arthritis Research UK, London, UK
Plenary Talk, Salt Symposium, Hasselt University, Belgium
Keynote Speaker, Immunology of Diabetes Society Congress 2018, London, UK
Plenary Talk, Istanbul MS Days 2018, Kyrenia, Cyprus
- 2019 Invited Speaker, Immunobiology in the 21st Century, Shanghai Jiao Tong University
School of Medicine, China
Invited Plenary Speaker, IUIS Conference, Beijing, China
Invited Speaker, Neurologic Institute, Neuroimmunology Symposium, Tokyo, Japan

Report of Clinical Activities

- 1985- Staff Physician, Multiple Sclerosis Clinical and Research Unit, Brigham and
Women's Hospital. Supervisor of weekly clinic with oversight of clinical
fellows.
- 1985-2002 Attending Physician, Brigham and Women's Hospital Neurology Service
- 2009- Neurologist-in-Chief, Yale New Haven Hospital

Part III: Bibliography

* Shared Co-authorship

Original Articles

1. Hafler DA. The synthesis, modification and encephalitogenicity of some fragments derived from the myelin basic protein. Master's Thesis, Emory University, Atlanta, Georgia, 1974.
2. Lines EL, Centofanti LF, Hafler DA. Basicity toward borane of simple phosphates. Phosphorus 5:55, 1974.
3. Hafler DA, Shapiro R, Chou FC-H, Kibler RF. The synthesis and encephalitogenicity of a modified fragment from myelin basic protein. Clin. Res. 24:605, 1976.
4. Panitch HS, Hafler DA, Johnson KP. Antibodies to myelin basic protein in cerebrospinal fluid of patients with multiple sclerosis, in Bover H (ed.) Progress in Multiple Sclerosis, p. 62. Springer-Verlag, 1980.
5. Brem S, Hafler DA, VanUitert RL, Ruff RL, Reichert WH. Spinal subarachnoid hematoma: a hazard of lumbar puncture resulting in reversible paraplegia. N Engl J Med 304, 1020-1 (1981). PMID: 7207553
6. Ruff RL, Kutt H, Hafler DA. Prolonged benzodiazepine coma. N Y State J Med 81, 776-7 (1981). PMID: 6111773
7. Devinsky O, Hafler DA, Victor Journal Embarrassment as the aura of a complex partial seizure. Neurology 32, 1284-5 (1982). PMID: 6890164
8. Tardieu M, Powers ML, Hafler DA, Hauser SL, Weiner HL. Autoreactive monoclonal antibodies induced by viral infection. Eur J Immunol 14, 561-5 (1984).

9. Weiner HL, Hafler DA, Fallis RJ, Johnson D, Ault KA, Hauser SL. Altered blood T-cell subsets in patients with multiple sclerosis. *J Neuroimmunol* 6, 115-21 (1984). PMID: 6373819
10. Weiner HL, Dawson DM, Hafler DA, Fallis RJ, Lehrich JR, Hauser SL. The use of cyclophosphamide in the treatment of multiple sclerosis. *Ann N Y Acad Sci* 436, 373-81 (1984). PMID: 6099707
11. Weiner HL, Hafler DA, Fallis RJ, Johnson D, Ault KA, Hauser SL. Altered blood T-cell subsets in patients with multiple sclerosis. *J Neuroimmunol* 6, 115-21 (1984). PMID: 6373819
12. Hafler DA, Johnson D, Buchsbaum M, Weiner HL. Phenotypic and functional analysis of T-cells cloned directly from the blood and cerebrospinal fluid of patients with multiple sclerosis. *Ann Neurol* 18, 451-8 (1985). PMID: 2416267
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