

## Curriculum Vitae

**Frederick William Miller, M.D., Ph.D.**

June 2017

### CURRENT POSITION

Chief, Environmental Autoimmunity Group  
 Deputy Chief, Clinical Research Branch  
 National Institutes of Environmental Health Sciences (NIEHS)  
 National Institutes of Health, DHHS  
 Clinical Research Center, Rm. 4-2352  
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### MAJOR RESEARCH INTERESTS

Genetic and Environmental Risk Factors and Pathogenesis of Immune-mediated Diseases  
 Outcome Assessment and Therapy of Autoimmune Disorders

### EDUCATION

1969 Salutatorian, Troy High School, Troy, OH  
 1973 B.A., Zoology, with minor in Chemistry, *Summa cum laude*, General Honors, Miami University, Oxford, OH  
 1979 M.D., Ph.D., Medical Scientist Training Program, Department of Anatomy and Developmental Biology Center, Case Western Reserve University School of Medicine, Cleveland, OH

### PROFESSIONAL EXPERIENCE

1/2001 - Present Chief, Environmental Autoimmunity Group, Clinical Research Branch, DIR, NIEHS, NIH, Bethesda, MD, Tenured Senior Investigator  
 10/2014 - Present Deputy Chief, Clinical Research Branch, NIEHS  
 04/1991 – 04/2014 Captain, US Public Health Service Research Officer Group (retired 4/2014)  
 10/2011-02/2013 Acting Clinical Director, NIEHS

11/1996-12/2000	Senior Investigator and Medical Officer – Clinical and Product Reviewer, Laboratory of Molecular and Developmental Immunology, Division of Monoclonal Antibodies, CBER, FDA, Bethesda, MD.
10/1993-10/1996	Senior Investigator and Medical Officer – Clinical and Product Reviewer, Molecular Immunology Laboratory, Division of Cellular and Gene Therapies, CBER, FDA; Tenured Senior Investigator, US Public Health Service Research Officer Group 1994.
12/1990-09/1993	Senior Investigator and Medical Officer - Clinical and Product Reviewer, Division of Biochemistry and Biophysics, CBER, FDA, Bethesda, MD.
08/1986-11/1990	Senior Staff Fellow and Clinical Associate - Arthritis and Rheumatism Branch, NIAMS, NIH, Bethesda, MD.
07/1983-07/1986	Medical Staff Fellow (Rheumatology Fellowship) - Arthritis and Rheumatism Branch, NIAMS, NIH, Bethesda, MD.
07/1981-06/1983	Medical Resident - Department of Medicine, Stanford University Medical Center, Stanford, CA.
07/1980-06/1981	Clinical Research Fellow - Clinical Research Facility, Emory University Medical Center, Atlanta, GA.
07/1979-06/1980	Medical Intern - Department of Medicine, Emory University School of Medicine Affiliated Hospitals, Atlanta, GA.

## LICENSURE AND CERTIFICATION

1980	National Board of Medical Examiners
1981	California Medical License #45861 (inactive)
1983	Maryland Medical License #D30329
1983	Board Certified in Internal Medicine by the American Board of Internal Medicine
1990	Board Certified in Rheumatology by the American Board of Internal Medicine

## SELECTED MEMBERSHIPS OF PROFESSIONAL SOCIETIES

Fellow and Master, American College of Rheumatology  
 Fellow, American College of Physicians  
 Member, American Association of Immunologists  
 Member, International Myopain Society  
 Member, Henry Kunkel Society

## SELECTED PROFESSIONAL HONORS AND RECOGNITION

2017	2 <sup>ND</sup> Global Conference on Myositis Achievement Award for Leadership in the Field
2017	NIEHS Group Merit Award for Advancing Inflammation Biology Awareness
2016	Selected as Master, American College of Rheumatology
2014	National Institutes of Health Cross-Divisional Group Merit Award
2013	US Public Health Service Achievement Medal
2008	Selected for listing in <i>American Men and Women of Science</i>

2007	Hero Award, the Cure Juvenile Myositis Foundation, for "Dedication to Finding a Cure for Juvenile Myositis"
2005	The Dunlop-Dotteridge Lectureship, Canadian Rheumatology Assoc., Mt. Tremblant, Canada
2005	NIH Merit Award for participation on the NIEHS Strategic Planning Workgroup
2003	The Kovacs Lectureship, the Royal Society of Medicine, London, UK
2000	Elected member of the Henry Kunkel Society
2000	First elected to Best Doctors in America
1999	US Public Health Service Meritorious Service Medal
1999	US Public Health Service Outstanding Unit Citation
1998	US Public Health Service National Vaccine Program Award
1998	US Public Health Service Unit Commendation Medal
1994	Selected as Fellow, American College of Rheumatology
1992, 1997	FDA Office of Woman's Health Grant recipient
1989	William R. Felts Award for Excellence in Rheumatology Research
1986	Senior Fellow Research Award, American College of Rheumatology
1985	Selected as Fellow, American College of Physicians
1979	Hughes Research Award, Case Western Reserve University
1974-77	National Research Service Awards, Case Western Reserve University
1973	Selected as NIH Trainee - Fertilization & Gamete Physiology Training Program, Marine Biology Laboratory, Woods Hole, MA
1973	B.A., <i>Summa cum laude</i> , General Honors, Miami University
1973	Elected to Phi Beta Kappa Honor Society, Miami University
1973	Hughes Chemistry Award, Miami University
1972	Culler Physics Award, Miami University
1971	Elected to Phi Beta Sigma Honor Society, Miami University
1971-72	Alan Brewer Memorial Scholarships, Miami University
1969-70	John Rawlings Memorial Scholarships, Miami University

## MENTORSHIP ACTIVITIES

Directed research projects and mentored dozens of undergraduate students, PhD thesis candidates, graduate students, medical students, postdoctoral fellows, clinical research fellows, visiting scientists, guest workers and summer students at the Food and Drug Administration and National Institutes of Health (1983-present)

### Selected recent trainees:

Lu Gan, MD, PhD. Postdoctoral fellow, NIEHS, NIH, Bethesda, MD  
 Sepehr Mesdaghinia, M.D., Rheumatology Fellow, Georgetown Univ. Med. Ctr., Washington DC  
 Abdullah Faiq, Medical Student, Howard University, Washington DC  
 Zhouyan Li, Medical Student, Vanderbilt University School of Medicine, Nashville, TN  
 Kathleen Gorman, Medical Student, University of Maryland School of Medicine, Baltimore, MD  
 Mona Shah, Ph.D. (Ph.D. thesis, 2012 in Epidemiology, George Washington University), Program Officer, Robert Wood Johnson Foundation, Princeton NJ

Leora Vegosen, Ph.D., M.H.S., Editor for American Journal Experts, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD  
 Rita Volochayev, C.R.N.P., C.P.M.N., Ph.D. (Ph.D. thesis, 2011 in Epidemiology, Walden University), Family Nurse Practitioner, NINDS, NIH, Bethesda, MD  
 James Yeh, Medical Student, Duke University, Durham, NC  
 Adrienne Yip, Medical Student, University of Maryland School of Medicine, Baltimore, MD

Selected Past Trainees:

Elham Bayat, M.D., Assistant Professor, Department of Neurology, Director of the ALS Multidisciplinary Clinic, George Washington University, Washington, DC  
 Catherine A. Bingham, M.D., Assistant Professor, Department of Pediatric Rheumatology, Penn State Milton S. Hershey Medical Center, Hershey, PA  
 Lauren Komarow, Ph.D., Biostatistician III, Statistical and Data Analysis Center, Harvard School of Public Health, Boston MA  
 Gulnara Mamyrova, M.D., Ph.D., Research Assistant Professor, Department of Medicine, Division of Rheumatology, The George Washington University, Washington, DC.  
 Winona Mesiona-Lee, M.D., Associate Professor, Department of Pediatrics, John A. Burns School of Medicine, Honolulu, HI  
 Wells Messersmith, M.D., FACP, Professor of Surgery, Director, GI Medical Oncology Program, Co-Leader, Developmental Therapeutics Program, Co-Head, Division of Medical Oncology, University of Colorado Cancer Center, University of Colorado School of Medicine, Denver, CO  
 Terrance O'Hanlon, Ph.D., Senior Research Assistant and Laboratory Manager, Environmental Autoimmunity Group, Clinical Research Program, NIEHS, NIH, Bethesda, MD  
 Satoshi Okada, M.D., Ph.D., Senior Assistant Professor, Department of Neurology, Ichikawa General Hospital, Tokyo Dental College, Tokyo, Japan  
 Lisa Rider, M.D., Deputy Chief, Environmental Autoimmunity Group, Clinical Research Program, NIEHS, NIH, Bethesda, MD  
 Kakali Sarkar, Ph.D., Lab Manager, Composite Tissue Allotransplantation Program, Department of Plastic and Reconstructive Surgery, The Johns Hopkins University School of Medicine, Baltimore, MD  
 Adam Schiffenbauer, M.D., Staff Clinician, Environmental Autoimmunity Group, Clinical Research Program, NIEHS, NIH, Bethesda, MD  
 Ejaz Shamim, M.D., M.S., Director of Neurology, Kaiser Permanente Mid-Atlantic Permanente Medical Group, Rockville, MD

**SELECTED SCIENTIFIC LEADERSHIP AND COMMITTEE WORK**

**NIH, FDA and other Federal Agencies**

2016-2017	NIH Deputy Director Representative, NCI Search Committee, Tenure-track Environmental Exposure Assessor
2016-2017	Member, Veterans Administration Epidemiology Scientific Review Group
2014-Present	NIH IRP Population Science Working Group
2013-2017	Member, NIH Translational Research Information System Data Access Committee
2012-Present	Co-Lead, NIEHS Inflammation Cross-Divisional Implementation Working Group
2012-2015	Member, NIH Clinical Trials Working Group
2012-2014	Member, NIH Earl Stadtman Investigator Review Committee on Immunology

2012-Present	Principle Investigator, the NIEHS Environmental Factors in Myositis in the Military
2011-2014	Member, NIEHS Search Committee, Clinical Director NIEHS
2011-2016	Member, NIEHS Title 42 Pay Committee
2011-2012	Chair, NIEHS Search Committees, EAG and Clinical Research Unit Staff Clinicians
2011-Present	Member, NIEHS Environmental Polymorphism Registry Steering Committee
2010-Present	Founder and Chair, The NHANES Autoimmunity Study
2010-2015	Member, NIEHS Committee on Tenure and Promotions (COP I)
2010-2011	Member, NIEHS Search Committee, EAG Staff Clinician
2010-Present	Principal Investigator, the NIEHS Environmental Factors in the Anti-synthetase Syndrome
2009-2017	Member, NIEHS Clinical Research Unit Contract Resource Review Committee
2008-Present	Chair, NIEHS Clinical Center Utilization Review Committee
2008-Present	Member, NIEHS Clinical Advisory Committee
2008-2016	Member, NIH Biomedical Translational Research Information System (BTRIS) Group
2008-2017	Member, NIH Translational Research Interest Group Steering Committee
2007-Present	Member, NIH Center for Human Immunology Scientific Advisory Committee
2006-2017	Member, NIH Clinical Research Center Medicine Partners Committee
2006-2014	Member, NIH National Quality Forum
2006	Member, NIEHS Search Committee, Staff Clinician, Clinical Research Unit
2006-Present	Principal Investigator and Steering Committee Member, the NIEHS Rituximab in Myositis Trial
2005-Present	Principal Investigator, the NIEHS Natural History of Autoimmune Diseases Study
2005	Member, NIEHS Search Committee, Tenure-Track Clinical Investigator in host defense
2005-2006	Member, NIEHS Strategic Planning Forum Steering Committee
2005-2015	Member, Trans-NIH Bioethics Committee
2005-2010	Member, NIH Roadmap Clinical and Translational Sciences Working Group
2003-2005	Member, NIH Roadmap Translational Core Working Group
2003-2005	Member, NIH Roadmap Regional Translational Research Center Working Group
2003-2011	Member, NIH Chronic Graft-Versus-Host Disease Response Criteria Working Group
2003	Member, NIEHS Search Committee, Tenure-Track Clinical Investigator in Gynecology
2003-Present	Principal Investigator, the NIEHS Twin-siblings Systemic Autoimmunity Study
2002-2008	Associate Investigator, the NIDR Soft Tissue Calcification Study
2002	Member, NIEHS Search Committee, Staff Clinician, Environmental Autoimmunity Group
2001-Present	Alternate Member, NIH Medical Executive Committee
2001-Present	Associate Investigator, the NIEHS Natural History of Adult and Juvenile Myositis Study
2001-2009	Associate Investigator, the FDA Rheumatoid Arthritis after Lyme Vaccine Study
2000-2004	Member, FDA Vascular Injury Expert Working Group
1999-2016	Associate Investigator, the NIAMS Infliximab in Myositis Study

1999-2002	Principal Investigator, the Familial Myositis Study
1999-2002	Reviewer, Veterans Administration Research Merit Review Board
1998-1999	Project member and co-author, FDA Guidance to Industry regarding developing therapies for rheumatoid arthritis
1997-1998	Project member and contributing author, FDA Guidance to Industry regarding electronic submissions of patient case report forms and case report tabulations
1997-2002	Member, DHHS Interagency Temporal Mandibular Disorder Working Group
1997-1998	Chair, FDA Biologics Licensing Application Committee, Simulect
1996-2000	Member, Armed Forces Institute of Pathology Scientific Advisory Board, Washington, DC
1996-2000	Elected representative, Committee to Advance CBER Science, FDA
1996-1998	Member, FDA IND Communications Working Group
1995-1999	Chair, FDA Electronic IND (eIND) Working Group
1995-2005	Principal Investigator, the FDA Silicone associated Connective Tissue Disease Study
1994-1998	Member, IRB Committee, Walter Reed Army Medical Center, Washington DC
1994-2002	Member, FDA Rheumatology Working Group
1994-2002	Clinical IND and BLA Reviewer, Division of Clinical Trials, CBER, FDA
1993-1995	Chair, FDA Gene Therapy Information Network Working Group
1993-2003	Principal Investigator, the FDA Myositis Developing after Silicone Implants Study
1993-2003	Principal Investigator, the FDA Myeloma and MGUS following Silicone Implants Study
1993-2005	Principal Investigator, the FDA Natural History of Autoimmune Diseases Study
1993-2005	Principal Investigator, the FDA Myositis Developing after Vaccination Study
1992-1999	Project leader and author, FDA Guidance to Industry regarding the pilot eIND Program
1992-1999	Member, DHHS Silicone Breast Implant Research Task Force
1992-1995	Chair, Rheumatology Focus Group, Division of Clinical Trials, CBER, FDA
1991-2002	Member, FDA FiRST Initiative
1990-2002	Advisor, FDA Office of the Commissioner and FDA Centers Coordination Committee – focusing on regulatory issues relating to autoimmunity and genetic risk factors for adverse events
1990-2002	Product IND and BLA Reviewer, Division of Cell and Gene Therapy and Div. of Monoclonal Antibodies, CBER, FDA
1990-2001	Medical Staff Guest Worker, Principal Clinical Investigator, NIH Clinical Center, Arthritis and Rheumatism Branch, NIAMS
1988-1993	Associate Investigator, the NIAMS Familial Autoimmunity Study
1987-1997	Principal Investigator, the NIAMS High Dose Methotrexate in Myositis Study
1986-1990	Principal Investigator, the NIAMS Apheresis in Myositis Trial
1986-1989	Principal Investigator, the NIAMS Cyclophosphamide in Myositis Trial
1985-Present	Associate Investigator, the NIAMS Natural History of Myositis Study
1985-Present	Member, NIH Immunology Interest Group

### **Nationally and Internationally**

2006-Present	Founder and Director, The Myositis Genetics Consortium (MYOGEN)
2000-Present	Co-founder and Co-Director, The International Myositis Assessment and Clinical Studies Group (IMACS)
2003-Present	Co-organizer and Member, Steering Committee, ACR-EULAR International Myositis Classification Criteria Project
2013-2014	Reviewer for Inflammation Initiative, Canadian Institutes of Health Research
2012–Present	Member, Steering Committee, ACR-EULAR-IMACS-PRINTO Response Criteria Project for Adult and Juvenile Dermatomyositis and Polymyositis
2008-Present	Scientific advisor, The George Washington University Myositis Clinic
2014-Present	Unpaid Medical Advisor to aTyr, MedImmune, Momenta and Idera Pharma
2010-2013	Category Chair, Myositis and Myopathies, American College of Rheumatology National Meeting Abstract Selection Committee
2009-Present	Member, Connective Tissue Disease Related Interstitial Pulmonary Fibrosis OMERACT Group
2009-2014	Chair, The International Myositis Assessment and Clinical Studies Group (IMACS) Scientific Committee; 2015- present: Member as immediate past Chair
2009-2011	Member, Scientific Work Group, Natl. Conversation on Public Health and Chemical Exposures
2009-Present	Member, Publications Committee, the NIAMS Rituximab in Myositis Trial
2007-2016	Co-founder and Co-director, The Pan-American Congress of Rheumatism (PANLAR) Myositis Consortium
2007-2008	Member, Nominations Committee, The Myositis Association
2005-2006	Category Chair, Myositis and Myopathies, American College of Rheumatology National Meeting Abstract Selection Committee
2004-Present	Member, Research Review Committee, The NIAMS Rituximab in Myositis Trial
2004-2014	Scientific reviewer, The Myositis Association Grants Program
2004-2009	Member, Adjudication Committee, The NIAMS Rituximab in Myositis Trial
2002-Present	Member, Steering Committee, The NIAMS Rituximab in Myositis Trial
2001-2002	Presenter, ACR Meet the Professor Series, Myositis and Myopathies
2000-2015	Founder and Director, the Environmental Myositis Collaborative Study Group
2000-2008	Member, Medical Advisory Board, The Myositis Association
2000-2004	Member, Board of Directors and Medical Advisory Board Vice-Chair, The Myositis Association
1996-2003	Invited presenter, NAS Institute of Medicine Silicone Scientific Review Committee
1996-2005	Member, OMERACT Toxicity Assessment Task Force
1996-2003	Member, NIAMS Juvenile Dermatomyositis Registry Advisory Board
1996-1998	Presenter, ACR Meet the Expert Series, Myositis and Myopathies
1995-Present	Co-founder, the Childhood Myositis Heterogeneity Collaborative Study Group
1994-1996	Board Member/Advisor, the National Dermatomyositis Support Group
1994-1999	Founder and Chair, American College of Rheumatology Environmentally-Associated Rheumatic Diseases Study Group
1993-2000	Founder and Director, the International Myositis Collaborative Study Group
1990-1996	Member, ACR National Meeting Myositis Abstract Selection Committees

## SELECTED ORGANIZATION OF WORKSHOPS, SYMPOSIA, CONFERENCES

- Organizer, and Chair of the Steering and Scientific Committees, The Second Global Conference on Myositis, GCOM 2017, Potomac, MD, May 5-8, 2017
- Co-organizer, NIEHS Inflammation Faculty Workshop, Inflammation and the Environment: The Role of the Mitochondrion and Energy Metabolism, RTP, NC, June 20-21, 2016
- Member, Scientific Committee, First International Conference on Myositis, Stockholm, Sweden, May 2015
- Co-organizer and moderator, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, Paris, France, June 9-10, 2014
- Co-organizer and moderator, The NIH Forum on the Microbiome and Autoimmunity, Bethesda, MD, April 24, 2014
- Co-organizer and Speaker, The NIEHS Expert Panel Workshop to Examine the Role of the Environment in Autoimmune Diseases, Durham, NC, September 7-8, 2010
- Co-organizer and co-moderator, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, Atlanta, GA, November 7, 2010
- Co-organizer, NIEHS Symposium on the Environment and Autoimmune Diseases, Durham, NC, September 8-10, 2010
- Co-organizer and co-moderator, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, Philadelphia, PA, October 17, 2009
- Co-moderator, The ACR Annual Meeting Session, Inflammatory Myopathies: Disease Mechanisms, Biomarkers and Treatment, San Francisco, CA, October 29, 2008.
- Co-organizer and co-moderator, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, San Francisco, CA, October 27, 2008
- Co-organizer and co-moderator, The PANLAR Myositis Consortium meeting, Guatemala City, Guatemala, August 21, 2008
- Organizer and moderator, The International Myositis Genetics Consortium (MYOGEN) planning meeting, Boston, MA, November 9, 2007
- Co-organizer and co-moderator, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, Boston, MA, November 10, 2007
- Organizer and moderator, The International Myositis Genetics Consortium (MYOGEN) organizational meeting, Washington, DC, November 13, 2006
- Co-organizer and speaker, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, Update on Myositis Clinical Studies, Washington, DC, November 14, 2006
- Co-organizer and co-moderator, The PANLAR Myositis Consortium, Organizational meeting, Lima, Peru, August 21, 2006
- Co-organizer and moderator, The International Myositis Assessment and Clinical Studies (IMACS) Meeting, Update on Myositis Clinical Studies and the IMACS Data Repository, San Diego, CA, November 13, 2005
- Co-organizer and moderator, The ACR-EULAR International Myositis Classification Criteria Project Working Group Workshop, Dulles, VA, November 10-11, 2005
- Organizer and moderator, The ACR-EULAR International Myositis Classification Criteria Project Steering Group Workshop, Bethesda, MD, October 26, 2004
- Co-organizer, 3rd International Myositis Assessment and Clinical Studies Workshop, Planning for Myositis Clinical Studies and the IMACS Data Repository, Orlando, FL, October 25-26, 2003
- Member, Workshop Planning Committee, Environmental Factors in Autoimmune Diseases, National Institute of Environmental Health Sciences, Durham, NC, February 4-5, 2003.



- Co-organizer, 2nd International Myositis Assessment and Clinical Studies Workshop, Developing Consensus on Outcomes and Clinical Trial Design Issues in Adult and Juvenile Myositis, NIH Office of Rare Diseases, NIAMS, NINDS, NIEHS funded meeting, New Orleans, LA, October 22-23, 2002
- Co-organizer and moderator, 1st International Myositis Assessment and Clinical Studies Workshop, Defining Improvement in Adult and Juvenile Myositis, NIH Office of Rare Diseases, NIAMS, NINDS, and NIEHS funded meeting, San Francisco, CA, November 9th-10th, 2001
- Organizer and moderator, Approaches for Studying Possible Associations between Vaccinations and Rheumatic Disorders, American College of Rheumatology Environmentally Associated Rheumatic Disease Study Group Session, Philadelphia, PA, October 20, 2000
- Co-organizer and co-moderator, NIH Workshop on Basic and Clinical Research in Inflammatory Myopathy, NIAMS-sponsored meeting, Bethesda, MD, April 5-6, 2000
- Organizer and moderator, Defining The Environmental Causes for Autoimmune Diseases, American College of Rheumatology Environmentally Associated Rheumatic Disease Study Group Session, Boston, MA, November 14, 1999
- Organizer and moderator, Drug-Associated Rheumatic Diseases, American College of Rheumatology Environmentally Associated Rheumatic Disease Study Group Session, San Diego, CA, November 19, 1998.
- Co-Organizer and moderator, Biologic Agents for Autoimmune Diseases IV, Washington, DC, March 1995
- Co-Organizer and moderator, Immunology Session, FASEB meeting, Boston, MA. August, 1993

## SELECTED EDITORIAL ACTIVITIES

- Associate Editor, *Journal of Neuromuscular Diseases*, 2013–present
- Editorial Board, *PLoS ONE*, 2011–present
- Associate Editor, *The Open Rheumatology Journal*, Bentham Science Publishers Ltd., 2007–present
- Co-Editor, *Myositis and You: A Complete Family Guide to Juvenile Dermatomyositis and Other Inflammatory Myopathies*, The Myositis Association, Washington, 2007  
([http://www.curejm.org/dl2011/eb2cjm/Myositis\\_and\\_You\\_033016.epub](http://www.curejm.org/dl2011/eb2cjm/Myositis_and_You_033016.epub)).
- Section Editor, Muscle Disease, *inPractice Rheumatology*, Clinical Care Options LLC, 2012–present
- Section Editor, Inflammatory Myopathies, *Rheumatic Disease Clinics North America*, 2001–2002
- Section Editor, Myositis and Myopathies, *Current Opinion in Rheumatology*, 1995–1998

## AD HOC REVIEWER FOR JOURNALS (SELECTED RECENT EXAMPLES)

*Annals of Internal Medicine, Annals of Neurology, Arthritis & Rheumatism, Arthritis Care & Research, Arthritis Research and Therapy, BMC Musculoskeletal Disorders, Clinical Immunology, Drugs, Environmental Health Insights, Journal of Clinical Investigation, Journal of Clinical Rheumatology, Journal of Medical Economics, Journal of Rheumatology, Lancet Neurology, Lupus, Nature Medicine, Neuromuscular Disorders, PLoS ONE, Proceedings of the National Academy of Science, Rheumatology*

## SELECTED INVITED LECTURES

- Medical Grand Rounds, Georgetown University Hospital, Washington, DC, Environmental Aspects of Autoimmunity, June 2017
- The Second Global Conference on Myositis, Potomac, MD, Moderator, and Environmental Risk Factors for Adult and Juvenile Myositis from US Registries, May 2017
- Medical Grand Rounds, NYU Langone Medical Center, New York, NY, New Developments in the Idiopathic Inflammatory Myopathies, May 2017
- Keynote Speech, Annual Meeting of the Japanese Society for Hygiene, Miyazaki, Japan, Environmental Factors in Autoimmune Diseases - What We Know in 2017, March 2017
- American College of Rheumatology Annual Meeting, Washington, DC. Meet the Professor sessions on Muscle Disease; How to Approach Cancer Evaluation in Myositis. November 2016
- International Myositis Assessment and Clinical Studies Group (IMACS) Annual Meeting, Washington, DC. Overview and Invitation to the Global Conference on Myositis 2017 and A Memorial to Mark Gourley, M.D., November 2016
- Intracity Conference, Toronto, Canada. Genes, the Environment and Age – The Ménage à Trios of Myositis; and Murray St. Clinical Rounds - Close Encounters with the Myositis Syndromes. March 2016
- NIEHS Environmental Autoimmunity Meeting, RTP, NC. Insights into Environmental Factors in Autoimmunity and Systemic Autoimmune Diseases: A Rheumatologist's Perspective, December 2015
- American College of Rheumatology Annual Meeting, San Francisco, CA. Moderator, New Adult and Juvenile Myositis Response Criteria. November 2015
- 11th International Lupus Conference, Vienna, Austria. Primary Myositis and SLE-Related Myositis: Similarities and Differences, and Meet the Professor session on Myositis. September 2015
- American Autoimmune Related Diseases Association State of Autoimmune Disease: A National Summit meeting, Washington, DC. Update on Environmental Risk Factors for Autoimmune Phenotypes. April 2015
- Grand Rounds, Washington VA Medical Center, Washington, DC. The Environment and Autoimmunity: A New Synthesis. March 2015
- NIEHS Emerging Biomarkers of Inflammation, RTP, NC. Novel Biomarkers of Myositis. February 2015
- American College of Rheumatology Annual Meeting, Boston, MA, Cancer and myositis: whom should we screen for malignancy? and History of classification criteria for the idiopathic inflammatory myopathies. November 2014
- NIH Intramural Population Science Consortium, Rockville, MD. NIEHS Clinical Resources, Databases and Repositories. October 2014
- International Myositis Assessment and Clinical Studies Group (IMACS) Outcomes Workshop, Paris, France. Defining New Consensus Outcomes for Adult and Juvenile Myositis. June 2014
- 2nd International Myositis Genetics Conference, Manchester UK. Genome-Wide Association Studies in Myositis Define the Different Members of HLA 8.1 Haplotype as Primary Genetic Risk Factors for Different Phenotypes, May 2014
- Grand Rounds, Dept. Rheumatology, Georgetown University Hospital, Washington, DC. Environmental Aspects of Autoimmune Diseases in 2014, May 2014
- NIH Process of Discovery Lecture Series, Bethesda, MD, Adventures in Autoimmunity – A Personal Journey, April 2014

- Advances in Targeted Therapies Symposium, Athens, Greece. Is there Hope for Finding New Targets to Treat Myositis? March 2014
- Gordon Conference, Ventura, CA. Discussion leader: Free Radical Metabolites in the Initiation of Autoimmunity. February 2014
- NIH Translational Interest Group, Bethesda, MD. Autoimmune Disease Phenotypes: Touchstones for Identifying Genetic and Environmental Risk Factors. January 2014
- American College of Rheumatology Annual Meeting, San Diego, CA, Controversies in the Criteria for Myositis; and Update on the International Myositis Assessment and Clinical Studies Group Scientific Committee. October 2013
- The Myositis Association Annual Meeting, Louisville, KY, Major Advances in Myositis over Two Decades; Myositis – Clues from the Environment; and MYOVISION – the First National Registry for Myositis. October 2013
- 5th International Myositis Workshop, Tokyo, Japan. Keynote speaker: International Research Initiatives in Inflammatory Muscle Disease; and Opportunities for Research at the NIH. September 2013
- 13th International Workshop on Scleroderma Research, Boston, MA. Identifying Environmental Factors in Autoimmune Disease. August 2013
- American College of Rheumatology Annual Meeting, Washington, DC, Update on the International Myositis Assessment and Clinical Studies Group, November 2012
- Cure Juvenile Myositis Medical Conference, Johns Hopkins Hospital, Baltimore, MD, New Developments in Understanding the Genetics of Myositis, October 2012
- Society for Women's Health Research Sponsored Roundtable, Washington, DC, Sex and Gender-Specific Environmental Exposures and Mechanisms in Autoimmune Disorders, October 2012
- NIEHS Partners Meeting, RTP, NC, Update on the Environment and Autoimmune Diseases – What We Know and What We Need to Know, June 2012
- Medical College of Wisconsin Grand Rounds, Milwaukee, WI, The Importance of Phenotypes in Deciphering the Clinical Presentations, Pathogenesis and Treatment of Myositis, April 2012
- American Association of Immunology, National Meeting, NIEHS Symposium, Boston, MA, Environmental Risk Factors for Autoimmune Diseases, April 2012
- South Atlantic National Research Conference, Raleigh, NC, The Role of Patient Support Groups in Community Research, March 2012
- National Advisory Environmental Health Sciences Council Meeting, NIEHS, Research Triangle Park, NC, The Environment, Genetics and Age – The M<sup>énage à Trios</sup> of Autoimmunity, February 2012
- American College of Rheumatology Annual Meeting, Chicago, IL: The Environment and Autoimmune Diseases – Where We Stand in 2011; Epidemiology of the Antisynthetase Syndrome; Career Opportunities for Rheumatologists in Government; IMACS Scientific Committee - Proposals on Project and Manuscript Reviews; Genome-Wide Association Study of Dermatomyositis Reveals Shared Genetic Risk Factors with Other Autoimmune Diseases, November 2011
- NIH ORD Cicatricial Alopecia Research Symposium, Bethesda, MD, Keynote Presentation - UV Radiation and Autoimmune Disease in Women, October 2011
- New York Rheumatology Board Review Course, New York, NY, Update on Inflammatory and Other Myopathies, September 2011
- The Hospital for Special Surgery Grand Rounds, New York, NY, Myositis Revisited: New Developments in Pathogenesis and Therapy, July 2011

- DC Rheumatism Society Fellows Forum in Washington, DC, Plenary talk, Myositis 2011: Past, Present and Future, June 2011
- NIH Neuromuscular Interest Group, Bethesda, MD, Close Encounters with the Myositis Syndromes, May 2011
- Advances in Targeted Therapies Meeting, Dubrovnik, Croatia, New Approaches to Understanding the Pathogenesis, Assessment and Treatment of Myositis, April 2011
- Joint Canadian-Mexican Congress of Rheumatology, Cancun, Mexico, Update on Therapies for Myositis, February 2011
- American College of Rheumatology Annual Meeting, Atlanta, GA, Myositis 2010, A to Z, November 2010
- New York Rheumatology Board Review Course, New York, NY, Review of Inflammatory and Other Myopathies, October 2010
- NIH Office of Research on Women's Health Seminar Series, Bethesda, MD, Environmental Aspects of Autoimmune Diseases, October 2010
- Virginia Society of Rheumatology Annual Meeting, Virginia Beach, VA. Myositis Pathogenesis, Assessment and Treatment, October 2010
- Frontiers of Rheumatology, Mexico City, Mexico, Close Encounters with the Myositis Syndromes, September 2010
- NIH Summer Intern Training Program Speaker Series, Bethesda, MD, Why the Environment is Critical to Understanding Autoimmune Diseases, July 2010.
- University of Alabama School of Medicine Grand Rounds, Birmingham, AL, New Developments in the Diagnosis, Pathogenesis and Management of Myositis, June 2010
- Autoimmune Diseases Summit: The Global State of Autoimmunity Today, Baltimore, MD, The Escalating Problem of Autoimmune Diseases: Investigating the Epidemic Increase in Incidence and Environmental Associations, March 2010
- NIH Clinical Center Grand Rounds, Bethesda, MD, Phenotypes as Clues to Deciphering the Pathogenesis and Treatment of Myositis, February 2010
- NIH Medical-Surgical Training Program, Bethesda, MD, Myositis 101 – The Essential Information You Need to Know to Care for Patients with Autoimmune Muscle Diseases, November 2009.
- New York Rheumatology Board Review Course, New York, NY, Update on Inflammatory and Other Myopathies, October 2009
- The First Myositis Association Research Symposium, Baltimore, MD, The Genetics of Myositis – the Search for Elemental Disorders, January 2009
- Washington Hospital Center, Dept. of Medicine Grand Rounds, Unweaving the Tapestry of Myositis One Patient at a Time, Washington, DC, January 2009
- AUTOCURE 2008 Meeting, Prague, Czech Republic. Genetic Risk and Protective Factors for the Idiopathic Inflammatory Myopathies, December 2008
- University of North Carolina Rheumatology Grand Rounds, Chapel Hill, NC, Myositis Pearls, Myths and Realities, November 2008
- The Myositis Association Annual Meeting, Denver, CO, The Environment and Autoimmune Diseases – Where We Stand in 2008; and Myositis Research Highlights – What Have We Learned in the Last 15 Years. September 2008
- The 15th Pediatric Rheumatology European Society Congress, London, UK, Dissecting Genotype-Phenotype Interactions in the Pathogenesis of Adult and Juvenile Myositis, September, 2008
- New York Rheumatology Board Review Course, New York, NY, Update on Inflammatory and Other Myopathies, September 2008
- NIEHS Public Interest Liaison Group Meeting, Washington, DC, NIEHS Translational Research in the Environment and Autoimmune Diseases, September 2008

- The XV PANLAR Congress, Guatemala City, Guatemala, Plenary Session, New Insights into the Pathogenesis and Management of Myositis, August 2008
- The Collaborative on Health and the Environment Online Presentation and Discussion Series, Environmental Factors in the Pathogenesis of Systemic Autoimmune Diseases, July 2008
- Saint Louis University Medical Center Grand Rounds, Deconstructing Myositis – What We Know, What We Think We Know and What We Need to Know, St. Louis, MO, May 2008
- The Hospital for Special Surgery Grand Rounds, Close Encounters with the Myositis Syndromes, New York, NY, April 2008
- The 10th International Workshop on Autoantibodies and Autoimmunity, Guadalajara, Mexico, Environmental Aspects of Autoimmunity, March 2008
- Cure Juvenile Myositis Meeting, Washington, DC, Genetics of Myositis – Current Status and New Opportunities, October 2007
- New York Rheumatology Board Review Course, New York, NY, Update on Inflammatory and Other Myopathies, September 2007
- MYOPAIN 2007, Washington, DC, Disorders of Muscle Inflammation – Pathogenic Insights from Environmental and Epidemiologic Studies, August 2007
- Puerto Rican Rheumatologist's Association International Meeting, San Juan, Puerto Rico. Dissecting Genotype-Phenotype Interactions in Myositis, May 2007
- 6th International Rheumatology Symposium, Yokohama, Japan, Adventures in Inflammatory Muscle Diseases, April 2007
- The Myositis Association Medical Advisory Board Annual Meeting, Washington, DC, Research Progress and Opportunities in Polymyositis and Dermatomyositis, January 2007
- American College of Rheumatology Annual Meeting, Washington, DC, ACR Clinical Symposium, Developments in Myositis Response Criteria, November 2006
- New York Rheumatology Board Review Course, New York, NY, Update on Inflammatory and Other Myopathies, September 2006
- XIV Congress of the Pan-American League of Associations for Rheumatology (PANLAR) Lima, Peru, Defining Risk Factors and Pathogeneses in Inflammatory Muscle Disease, August 2006
- NIEHS Translation of Environmental Health Sciences Retreat, Chapel Hill, NC, Intramural Clinical Research and Approaches to Enhancing Translational Studies, June 2005
- The Annual European League of Associations for Rheumatism (EULAR) Congress of Rheumatology, Vienna, Austria, Environmental Factors in Muscle Weakness, June 2005
- Canadian Rheumatology Association National Meeting, Mont Tremblant, Quebec, The Dunlop-Dotteridge Plenary Lecture: Close Encounters with the Myositis Syndromes, March 2005
- NIEHS Division of Intramural Research Retreat, New Bern, NC, Mini Symposium Environmental Aspects of Immune-Mediated Diseases, October 2004
- NIAID Eosinophilia Myalgia Syndrome (EMS) Conference, Bethesda, MD. Genetic Risk and Protective Factors for EMS, October 2004
- The Myositis Association Annual Conference, Las Vegas, NV, Talking with your Doctor about Myositis, and Myositis 101: What Patients Need to Know, and Myositis Research Update, August 2004
- Myopain 2004, Annual Meeting of the International Myopain Society, Munich, Germany, Plenary Lecture: Deconstructing Myositis – From Bedside to Bench and Back Again, July 2004
- Clinical Immunology Society (CIS) Spring School in Systemic Autoimmune Diseases Meeting, Santa Fe, New Mexico, Environmental and Genetic Aspects of Autoimmune Diseases: The Case for Elemental Disorders, March 2004

- American College of Rheumatology Annual Meeting, Orlando, FL, Meet the Expert Session on Myositis and Myopathies, October 2003
- The Myositis Association Annual Conference, Houston, TX, Translational Research on Myositis, from Bench to Bedside, October 2003
- NIEHS Public Interest Liaison Group Meeting, New York, NY, Autoimmune Disorders and Environmental Factors, September 2003
- The UK Myositis Support Group Annual Meeting, Birmingham, UK, Genetic and Environmental Risk Factors for Myopathies, June 2003
- Frontiers of Rheumatology - 21st Annual Carl M. Pearson Memorial Symposium, Huntington Beach, CA, Differential Diagnosis of Muscle Disease: How Useful Are Genetic Markers, Myositis Antibodies and Imaging Studies? and Optimizing the Benefit/Risk Ratio in the Management of Inflammatory Myopathies, May 2003
- The Henry Kunkel Society 11th Annual Meeting, New York, NY, Global Surface Ultraviolet Radiation Intensity Modulates the Clinical and Immunologic Expression of Autoimmune Muscle Disease, April 2003
- The Royal Society of Medicine Kovacs Lectureship, London, UK, Myositis: Aetiology and Management, March 2003
- NIEHS Conference on Environmental Factors in Autoimmune Disease, Durham, NC, *Gene-Environment Interactions in Autoimmune Diseases*, February 2003
- Mexican Society of Rheumatology Meeting, Nuevo Leon, Mexico, Plenary talk: News and Views on Managing Polymyositis and Dermatomyositis, February 2003
- American College of Rheumatology Annual Meeting, New Orleans, LA, Meet the expert session on myositis and myopathies, and Environmentally Associated Rheumatic Diseases Study Group Session, Approaches to Evaluating Myopathies in Patients on Lipid-lowering Agents, October 2002
- The Myositis Association of America Annual Conference, Atlanta, GA, How We Diagnose Myositis; and Myositis Overlap Syndromes, September 2002
- Michigan Rheumatism Society Bi-Annual Meeting, Ann Arbor, MI, Special lecture – Inflammatory Myopathies through the Looking Glass of the Myositis-specific Autoantibodies, June 2002
- University College, 2nd International Myositis Workshop, London, UK, Approaches to Assessing Disease Activity and Damage in Myositis, May 2002
- The International Myopain Society, Scientific Interdisciplinary Working Group Annual Meeting, Munich, Germany, Plenary session: News and Views on Inflammatory Myopathies, May 2002
- American College of Rheumatology Annual Meeting, San Francisco, CA, Meet the Expert Session on Myositis and Myopathies, November 2001
- The Myositis Association of America Annual Conference, San Diego, CA, New Directions in Myositis Research, October 2001
- University of Pittsburgh School of Medicine, Department of Medicine Grand Rounds, Pittsburgh, PA. Update on Clinical Presentation, Diagnosis, Pathogenesis and Management of Myositis, March 2001
- WHO Exploratory Meeting of Epidemiology of Occupational and Environmental Factors Associated with Autoimmunity, Bilthoven, the Netherlands, Epidemiologic Studies of Autoimmune Diseases and the Environment, May 2000
- Federal Interagency Working Group on Women's Health and the Environment Conference, DHHS, Washington, DC, Genetic and Environmental Determinants of Autoimmune Diseases, June 1998

## FUNDING SUPPORT OUTSIDE OF NIEHS

- 2017 – 2021 Associate Investigator, An Open-label Study of Sodium Thiosulfate for Treatment of Calcinosis Associated with Juvenile and Adult Dermatomyositis (\$1,559,120, CRADA with Hope Pharmaceuticals, EHS-CTCR-1) (10% effort)
- 2013 – 2014 Funding for ACR-EULAR Consensus Conference for the Development of Response Criteria for Adult and Juvenile Myositis (\$60,000 from NIH Office of Rare Diseases, NIEHS, NIAMS, Cure JM Foundation, UK Myositis Support Group and The Myositis Association)
- 2012 – 2016 Co-Principal Investigator, American College of Rheumatology-European League Against Rheumatism grant, “Development of Response Criteria for Adult and Juvenile Myositis” (\$130,000) (10% effort)
- 2011 – 2017 Principal Investigator, “Potential Environmental Triggers of Myositis”, The Myositis Association, from a cooperative agreement with the Department of Defense (W81XWH-11-1-0730) (\$596,575) (10% effort)
- 2005 - 2009 American College of Rheumatology, Development of Outcome Measures for Myositis (\$15,000 to support database development and management) (10% effort)
- 2006 - 2009 Principal Investigator, Inter-agency agreement, NIAMS, Rituximab Therapy in Refractory Adult and Juvenile Idiopathic Inflammatory Myopathies (NIEHS as enrollment site, \$515,586) (25% effort)
- 2001, 2002 Co-Principal Investigator, NIH Office of Rare Diseases and NINDS funding for 2 workshops on Outcome Assessment and Clinical Trial Design in the Idiopathic Inflammatory Myopathies (\$25,000 each year)
- 1992, 1997 Principal Investigator, FDA Office of Woman's Health Grant recipient for risk factors related to silicone related autoimmunity (\$150,000 each award) (25% effort)

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### Primary Publications in Peer-Reviewed Journals

1. Ilan, J, Pierce DR, **Miller, FW**. Influence of 9-beta-d-arabinofuranosyladenine on total protein synthesis and on differential gene expression of unique proteins in the rodent malarial parasite *Plasmodium berghei*. *Proc Natl Acad Sci U.S.A.* 1977; 74(8):3386-90.
2. **Miller, FW**, Ilan J. The ribosomes of *Plasmodium berghei*: isolation and ribosomal ribonucleic acid analysis. *Parasitology* 1978; 77(3):345-65.
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4. Chawla RK, Rausch DJ, **Miller FW**, Vogler WR, Lawson DH. Abnormal Profile of Serum Proteinase Inhibitors in Cancer Patients. *Cancer Res.* 1984; 44(6):2718-23.
5. **Miller FW**, Ilan J. Evidence for major differences in ribosomal subunit proteins from *Plasmodium berghei* and rat liver. *Mol Biochem Parasitol.* 1984; 12(3):249-60.
6. **Miller FW**, Santoro TJ. Nifedipine in the treatment of migraine headache and amaurosis fugax in patients with systemic lupus erythematosus (letter). *N Engl J Med.* 1984; 311(14):921.

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8. Biswas T, **Miller FW**, Twitty SA, Plotz PH. An efficient method for enrichment of histidyl-tRNA synthetase (Jo-1 antigen) from HeLa cells. *J Immunol Methods*. 1987; 98(2):235-41.
9. Biswas, T, **Miller FW**, Takagaki Y, Plotz PH. An enzyme-linked immunosorbent assay for the detection and quantitation of anti-Jo-1 antibody in human serum. *J Immunol Methods*. 1987; 98(2):243-8.
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15. Biswas T, **Miller FW**, Plotz PH. Stimulation and partial stabilization of human histidyl-tRNA synthetase by hemoglobin. *FEBS Lett*. 1988; 229(1):203-5.
16. Allaway GP, Srinivasappa J **Miller FW**, Prabhaker BS, Notkins AL. Spontaneously proliferating human B lymphocytes make autoantibodies. *J Infectious Dis*. 1988; 157:968-972.
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