

CURRICULUM VITAE

Howard Mark Lederman, M.D., Ph.D.

BORN: Chicago, Illinois; April 3, 1952

MARITAL STATUS: Married with three children

CITIZENSHIP: U.S.A.

EDUCATION:

Chicago Public Schools	1957-69
The University of Michigan College of Literature, Science & Arts Ann Arbor, Michigan Major: Cellular Biology Degree: B.S. (with High Distinction and Highest Honors)	1969-72
The University of Michigan Rackham School of Graduate Studies Ann Arbor, Michigan Department: Microbiology Degree: Ph.D.	1972-78
The University of Michigan School of Medicine Ann Arbor, Michigan Degree: M.D.	1973-77

RESIDENCY TRAINING:

The Johns Hopkins Hospital Baltimore, Maryland Harriet Lane Service (Pediatrics)	
Intern	1978-79
Assistant Resident	1979-80
Senior Assistant Resident	1980-81

FELLOWSHIP:

The Hospital for Sick Children The University of Toronto Toronto, Canada Clinical and Research Fellow (Immunology)	1981-83
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FACULTY APPOINTMENTS:

Assistant Professor  
Department of Pediatrics  
Johns Hopkins University  
Baltimore, Maryland 1984-1990

Associate Professor  
Department of Pediatrics  
Johns Hopkins University  
Baltimore, Maryland 1990-2001

Joint Appointment  
Department of Medicine  
Johns Hopkins University  
Baltimore, Maryland 2000-

Professor  
Department of Pediatrics  
Johns Hopkins University  
Baltimore, Maryland 2001-

Co-Chair, Johns Hopkins Medicine  
Investigational Review Board 4 2001-2003

Chair, Johns Hopkins Medicine  
Investigational Review Board 1 2003-

Joint Appointment  
Department of Pathology  
Johns Hopkins University  
Baltimore, Maryland 2004-

PROFESSIONAL APPOINTMENTS:

Director, Immunodeficiency Clinic  
Johns Hopkins Hospital  
Baltimore, Maryland 1991-

Director, Immunodeficiency Diagnostic Laboratory  
Johns Hopkins Hospital  
Baltimore, Maryland 1992-

Director, Ataxia-Telangiectasia Clinical Center  
Johns Hopkins Medical Institutions  
Baltimore, Maryland 1995-

BOARD QUALIFICATIONS:

American Board of Medical Examiners 1979

American Board of Pediatrics 1984

LICENSURE:

State of Maryland (License # D30267) 1983

PROFESSIONAL SOCIETIES:

American Association of Immunologists 1985

American Society for Microbiology 1985

Clinical Immunology Society 1987

Society for Pediatric Research 1990

Infectious Diseases Society of America 1995

AWARDS:

Valedictorian, Sullivan High School 1969

National Merit Scholarship Finalist 1969

Illinois State Scholarship Finalist 1969

Westinghouse Science Talent Search Finalist 1969

The University of Michigan Medical School  
Merit Scholarships

F.R. Schem Scholarship 1973-74

Alexander Scholarship 1974-75

Houck Scholarship 1975-76

Ainger Scholarship 1976-77

Fellow, Medical Research Council of Canada 1981-83

Tisdall Award for Research,  
Hospital for Sick Children 1982

Tisdall Award for Research,  
Hospital for Sick Children 1983

Fellow, Andrew W. Mellon Foundation 1986-87

RJR Nabisco, Inc. Research Scholars Award 1987

EXTRAMURAL GRANTS:

Age-Dependence of Anti-Polysaccharide Immunity

American Lung Association

Principal Investigator

1986-1988 \$35,000 (total direct cost)

Age-Dependence of Anti-Polysaccharide Immunity

NIH 5 R23 AI23023

Principal Investigator

1986-1989 \$108,000 (total direct cost)

Immunogenicity of a Pneumococcal Protein Conjugate Vaccine in Infants with Sickle Cell Disease

American Cyanamide Co/Wyeth Lederle Vaccines and Pediatrics

Principal Investigator

1994-1998 \$255,885 (total direct cost)

Immunogenicity of a Pneumococcal Protein Conjugate Vaccine in Infants with Sickle Cell Disease

Thrasher Research Fund

Principal Investigator

1994-1998 \$147,485 (total direct cost)

Clinical Center for Ataxia Telangiectasia

A-T Children's Project

Principal Investigator

1995-present \$89,933 (direct cost for 1998-99 yr)

Advanced Technology Laboratory (Immunology)

NIAID/Adult AIDS Clinical Trials Group/Social & Scientific Systems

Principal Investigator

1996-2000 \$814,696 (total direct cost)

Development of a DNA Diagnostic Test for the Ataxia-Telangiectasia (ATM) Gene

A-T Children's Project

Principal Investigator

2000-2001 \$145,446 (total direct costs)

Inner-City Asthma Consortium (University of Wisconsin)

NIAID

Co-Investigator

2003-2009 \$1,497,252

EDUCATIONAL ACTIVITIES:

Courses/classroom instruction

Medical School Year 1 Immunology Course

Lecturer, laboratory instructor

1988-present

Medical School Year 2 Immunology Section of Pathophysiology

Lecturer

1988-present

Director

1998-present

Graduate Immunology, School of Medicine Lecturer	1998-present
School of Nursing Pathophysiology Lecturer	1995-present
Medical Student Journal Club Group Leader	1995-1996
Graduate Immunology, School of Hygiene and Public Health Lecturer	2001-present

FELLOWS TRAINED:

James E. Gern Current position:	1989-1992 Associate Professor of Pediatrics, Allergy/Immunology University of Wisconsin, Madison, WI
Alicia M. Neu Current position:	1991-1994 Assistant Professor of Pediatrics, Pediatric Nephrology, Johns Hopkins University School of Medicine, Baltimore, MD
Aaron Zuckerberg Current position:	1991-1994 Attending Anesthesiologist and Intensivist, Sinai Hospital; Assistant Professor of Anesthesiology and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
Anna Nowak-Wegryzn Current position:	1997-2000 Assistant Professor, Pediatric Allergy & Immunology, Mount Sinai Medical Center, New York, NY

EDITORIAL ACTIVITIES:

Editor, The Doctor's Column  
Science World Magazine  
Scholastic, Inc. New York, NY  
1989 - 1990

Editor-in-Chief, Immune Deficiency and Allied Disorders: Clinical Updates  
Postgraduate Institute for Medicine  
Englewood, CO  
1994 - present

Editorial Board, Clinical and Diagnostic Laboratory Immunology  
1997 - present

Section Editor, Immunodeficiency Diseases

Manual of Molecular and Clinical Laboratory Immunology  
2004

Associate Editor, Medicine  
2005 - present

MEDICAL SCHOOL COMMITTEES:

Intern Selection Committee (Pediatrics)  
1992-1995

Joint Committee for Clinical Investigation  
Johns Hopkins Medical Institutions  
1997 - 2001

Co-Chair of Institutional Review Board -4  
Johns Hopkins Medical Institutions  
2001 - 2003

Chair of Institutional Review Board -1  
Johns Hopkins Medical Institutions  
2003 - present

Credentials Committee (Pathology)  
2000-present

INVITED LECTURES:

“Gamma-Globulin Therapy”  
Pediatric Allergy and Immunology Symposium  
Maryland Chapter, American Academy of Pediatrics  
Annapolis, MD  
1989

“Sinusitis and Immunodeficiency”  
American Lung Association Symposium  
Clearwater Beach, FL  
1991

“Presentation of Immunodeficiency Diseases”  
Association of Medical Laboratory Immunologists 5<sup>th</sup> Annual Meeting  
Bethesda, MD  
1992

Visiting Professor  
Division of Immunology/Rheumatology

Children's Memorial Hospital  
Chicago, IL  
1993

"Abnormalities of Host Defense in Sickle Cell Disease"  
Immune Function in Sickle Cell Disease Workshop  
NIAID/NHLBI  
Rockville, MD  
1995

"Immunodeficiency in Ataxia-Telangiectasia"  
Clinical Management of Ataxia-Telangiectasia  
A-T Children's Project  
Chicago, IL  
1995

"Immunogenicity of a Pneumococcal Protein Conjugate Vaccine in Infants with Sickle Cell Disease"  
National Sickle Cell Disease Program  
Sickle Cell Disease Association of America, Inc.  
Washington, DC  
1997

Visiting Professor  
John Radcliff Hospital  
Oxford University  
Oxford, U.K.  
1997

"Presentation of Immunodeficiency in Children"  
Pediatric Infectious Disease Symposium  
Maryland Chapter, American Academy of Pediatrics  
St. Michaels, MD  
1997

"Disorders of Immunity in Ataxia-Telangiectasia"  
A-T Study/Awareness Day  
University of Nottingham  
Nottingham, U.K.  
1997

Block Symposium Chair, "Mechanisms of Immunology"  
American Association of Immunology Annual Meeting  
San Francisco, CA  
1998

"Clinical Features of Ataxia-Telangiectasia"  
Workshop to Elucidate the Neuropathology of Ataxia-Telangiectasia  
NINDS

Bethesda, MD  
1998

“L-dopa for Symptomatic Therapy of Patients with Ataxia-Telangiectasia”  
Eighth International Workshop for Ataxia-Telangiectasia  
Las Vegas, NV  
1999

“Ataxia-Telangiectasia”  
American Academy Allergy, Asthma & Immunology Annual Meeting  
Orlando, FL  
1999

"Ataxia-Telangiectasia"  
Meeting on the Molecular Neurobiology of ATM  
Cold Spring Harbor Laboratory  
Cold Spring Harbor, NY  
1999

"Ataxia-Telangiectasia"  
Department of Pediatrics  
University of Wisconsin  
Madison, WI  
2000

"Immunodeficiency in the Neonate"  
Neonatal Advanced Practice Nursing  
Forum 2000  
Washington, DC  
2000

"Uses and Abuses of Intravenous Gammaglobulins"  
Progress in Pediatrics  
Johns Hopkins Hospital  
Baltimore, MD  
2001

"Common Variable Immunodeficiency"  
Immune Deficiency Foundation National Conference  
Baltimore, MD  
2001

"Immune Susceptibility and Developmental Immunity"  
Host Defense in Sickle Cell Disease Working Group  
NHLBI, NIH  
Bethesda, MD  
2001



"Therapeutic Uses of IVIG"  
Plasma Forum 2001  
Plasma Protein Therapeutics Association  
Baltimore, MD  
2001

"Ataxia-Telangiectasia"  
Ground Rounds, Department of Pediatrics  
University of Arkansas  
Little Rock, AK  
2001

“Recognition and Screening Tests for Immunodeficiency Diseases”  
Grand Rounds, Pediatrics  
Johns Hopkins Bayview Medical Center  
Baltimore, MD  
2002

“Recognition of Primary Immunodeficiency Diseases”  
Grand Rounds, Department of Pediatrics  
Sinai Hospital  
Baltimore, MD  
2002

“Selective IgA Deficiency”  
Immune Deficiency Foundation  
National Conference  
Baltimore, MD  
2003

“Illustrative Examples of Primary Immunodeficiency Diseases”  
Immune Deficiency Foundation  
National Conference  
Baltimore, MD  
2003

“Lung Disease in Ataxia-Telangiectasia”  
A-T Society  
Nottingham, U.K.  
2003

“X-linked Autoimmunity Allergic Dysregulation Syndrome”  
John Radcliff Hospital  
Oxford University  
Oxford, UK  
2003

“Immunodeficiency in Adults”  
Grand Rounds, Department of Medicine  
Sinai Hospital  
Baltimore, MD  
2003

“Cognitive Function in Patients with Ataxia-Telangiectasia”  
International Workshop on A-T  
Fraser Island, Queensland  
Australia  
2003

“Immunologic Aspects of Ataxia-Telangiectasia”  
Tel Aviv University  
Tel Aviv, Israel  
2004

PUBLIC SERVICE:

Data Safety Monitoring Board

"Double-blind, placebo controlled, parallel group four year, multi-center study to determine the safety and effectiveness of two dose levels of prednisone given in alternate day dosing schedule to patients with cystic fibrosis."

Cystic Fibrosis Foundation  
Bethesda, MD  
1990-1993

NIAID/NHLBI Special Review Committee

“Sickle Cell Disease”  
Bethesda, MD  
1992

NIAID Special Review Committee

“Neonatal Immunity for Vaccines”  
Bethesda, MD  
1994

Data Safety Monitoring Board

"American Indian Pneumococcal Conjugate Vaccine Efficacy Trial"

Wyeth-Lederle Vaccines and Pediatrics  
NIAID  
Centers for Disease Control  
1998-2001

NHLBI Special Review Committee

"Sickle Cell Disease"  
Bethesda, MD  
2001

PUBLICATIONS:

1. Lederman HM, Hayashi JA, Bahn AN. 1972. Chondroitin sulfatases in oral bacteria. J Dent Res 51:206.
2. Good AE, Cassidy JT, Mutchnik MG, Reed RE, Lederman HM. 1977. Ankylosing spondylitis with selective IgA deficiency and a circulating anticoagulant. J Rheumatol 4:297-302.
3. Johnson AG, Lederman HM. 1978. Studies on the immunoregulatory activities of non-toxic synthetic polyribonucleotides. Adv Pharmacol Therapeut 4:177-185.

4. Lederman HM, Johnson AG. 1979. Stimulation of human peripheral blood leukocytes by polyadenylic-polyuridylic acid complexes. *J Reticuloendothel Soc* 26:643-653.
5. Lederman HM, Mak H, Pepple JM, Winkelstein JA. 1980. X-linked immunodeficiency diseases. *Johns Hopkins Med J* 147:33-39.
6. Mutchnik MG, Lederman HM, Missirian A, Johnson AG. 1981. In vitro synthesis of IgG by peripheral blood lymphocytes in chronic liver disease. *Clin Exp Immunol* 43:370-375.
7. Lederman HM, Lee JWW, Price GB, Gelfand EW. 1983. Growth and characterization of T cell colonies from human thymus. *J Immunol* 130:45-50.
8. Lederman HM, Yolken R, D'Souza BJ, Winkelstein JA. 1983. Chronic disseminated Epstein-Barr virus infection and humoral immunodeficiency: Detection of viral antigen by ELISA inhibition assay. *Pediatr Infect Dis* 2:388-390.
9. Cohen A, Barankiewicz J, Lederman HM, Gelfand EW. 1983. Purine and pyrimidine metabolism in human T lymphocytes. Regulation of deoxyribonucleotide metabolism. *J Biol Chem* 258:12334-12340.
10. Lederman HM, Lee JWW, Cohen A, Gelfand EW. 1984. Functional characterization of human thymocyte subpopulations separated by density gradient centrifugation. *Clin Exp Immunol* 55:388-396.
11. Lederman HM, Cohen A, Lee JWW, Freedman MH, Gelfand EW. 1984. Deferoxamine: A reversible S-phase inhibitor of human lymphocyte proliferation. *Blood* 64:748-753.
12. Grinstein S, Cohen S, Lederman HM, Gelfand EW. 1984. The intracellular pH of quiescent and proliferating human and rat thymic lymphocytes. *J Cell Physiol* 121:87-95.
13. Lederman HM, Lee JWW, Cheung RK, Grinstein S, Gelfand EW. 1984. Monocytes are required to trigger Ca<sup>++</sup> uptake in the proliferative response to human T lymphocytes to *Staphylococcus aureus* protein A. *Proc Natl Acad Sci USA* 81:6827-6830.
14. Lederman HM, Lee JWW, Gelfand EW. 1985. The origin of T-cell colonies from T-depleted human lymphocyte populations: Analysis by limiting dilution. *Clin Exp Immunol* 59:482-490.
15. Cohen A, Barankiewicz J, Lederman HM, Gelfand EW. 1984. Purine metabolism in human T lymphocytes: Role of the purine nucleoside cycle. *Can J Biochem Cell Biol* 62:577-583.
16. Roifman CM, Lederman HM, Lavi S, Stein LD, Levison H, Gelfand EW. 1985. Benefit of intravenous IgG replacement in hypogammaglobulinemic patients with chronic sinopulmonary disease. *Am J Med* 79:171-174.
17. Lederman HM, Winkelstein JA. 1985. X-linked agammaglobulinemia. An analysis of 96 patients. *Medicine* 64:145-156.
18. Roifman CM, Rao CP, Lederman HM, Lavi S, Quinn P, Gelfand EW. 1986. Increased susceptibility to mycoplasma infection in patients with hypogammaglobulinemia. *Am J Med* 80:590-594.

19. Lederman HM, Roifman CM, Lavi S, Gelfand EW. 1986. Corticosteroids for prevention of adverse reactions to intravenous immune serum globulin infusions in hypogammaglobulinemic patients. *Am J Med* 81:443-446.
20. Eiden J, Lederman HM, Vonderfecht S, Yolken R. 1986. T-cell deficient mice display normal recovery from experimental rotavirus infection. *J Virol* 57:706-708.
21. Lederman HM, Brill CR, Murphy PA. 1987. Interleukin-1 driven secretion of interleukin-2 is highly temperature dependent. *J Immunol* 138:3808-3811.
22. Tift CJ, Lederman HM. 1988. Immunization status of hospitalized preschool age-children: The need for hospital based immunization programs. *Am J Dis Child* 142:719-720.
23. Fivush BA, Case B, May MW, Lederman HM. 1989. Hypogammaglobulinemia in children undergoing continuous ambulatory peritoneal dialysis. *Pediatr Nephrol* 3:186-188.
24. Taylor AJ, Wood RA, Lederman HM. 1989. Recurrent infections with meningitis. *Ann Allergy* 62:492-493.
25. Lederman HM, Metz SJ, Zuckerberg AL, Loughlin GM. 1989. Antibody deficiency complicating severe bronchopulmonary dysplasia. *Pediatr Pulmonol* 7:52-54.
26. Viscidi RP, Mayur K, Lederman HM, Frankel AD. 1989. The Tat protein from human immunodeficiency virus type 1 inhibits antigen-induced lymphocyte proliferation. *Science* 246:1606-1608.
27. Germain-Lee EL, Schiffman G, Mules EH, Lederman HM. 1990. Selective deficiency of antibody responses to polysaccharide antigens in a child mosaic for partial trisomy 1 [46,XX,dir dup (1) (q12→q23)/46,XX]. *J Pediatr*, 117:96-99.
28. Coutlee F, Rubalcaba EA, Viscidi RP, Gern J, Murphy PA, Lederman HM. 1990. Quantitative detection of messenger RNA by solution hybridization and enzyme immunoassay. *J Biol Chem*, 265:11601-11604.
29. Bernhisel-Broadbent J, Camargo EE, Jaffee HS, Lederman HM. 1991. Recombinant human interferon-gamma as adjunct therapy for aspergillus infection in a patient with chronic granulomatous disease. *J Infect Dis*, 163:908-911.
30. Gern JE, Jayman JR, Goldberg LI, Murphy PA, Lederman HM. 1991. Temperature is a powerful promoter of interleukin 2 transcription. *Cytokine*, 3:389-397.
31. Orobello PW Jr, Park RI, Belcher LJ, Eggleston P, Lederman HM, Banks JR, Modlin JF, Naclerio RM. 1991. Microbiology of chronic sinusitis in children. *Arch Otolaryngol Head Neck Surg* 117:980-983.
32. Kawashima A, Kuhlman JE, Fishman EK, Tempany CM, Magid D, Lederman HM, Winkelstein, JA, Zerhouni EA. 1991. Pulmonary Aspergillus chest wall involvement in chronic granulomatous disease. CT and MRI findings. *Skeletal Radiol* 20:487-493.

33. Esolen LM, Fasano MB, Flynn J, Burton A, Lederman HM. 1992. *Pneumocystis carinii* osteomyelitis in a patient with common variable immunodeficiency. *N Engl J Med* 326:999-1001.
34. Lee DC, Lederman HM. 1992. Anti-tetanus toxoid antibodies in intravenous gamma globulin: An alternative to tetanus immune globulin. *J Infect Dis* 166:642-645.
35. Carbone KM, Rubin SA, Sierra-Honigmann A, Lipkin WI, Hatalski C, Lederman HM. 1993. Characterization of a glial cell line persistently infected with Borna disease virus (BDV): Influence of neurotrophic factors on BDV protein and RNA expression. *J Virol* 67:1453-1460.
36. Perlman EJ, Lederman HM, Taylor GA, Fasano MB, Loughlin GM, Zeitlin PL. 1993. "Bronchitis" obliterans and prolonged transient hypogammaglobulinemia. *Pediatr Pulmonol* 16:375-379.
37. Neu AM, Lederman HM, Fivush BA. 1993. Hypogammaglobulinemia and fatal sepsis in an infant maintained on chronic peritoneal dialysis. *Pediatr Nephrol* 7:455-456.
38. Fivush BA, Case B, Warady BA, Lederman H. 1993. Defective antibody to *Hemophilus Influenzae* type b immunization in children receiving peritoneal dialysis. *Pediatr Nephrol* 7:548-550.
39. Zuckerberg AL, Goldberg LI, Lederman HM. 1994. The effects of hypoxia on interleukin-2 mRNA expression by T lymphocytes. *Critical Care Med* 22:197-203.
40. Barone MA, Lederman HM. 1994. A one month old boy with jaundice, thrush and respiratory distress. *Curr Opin Pediatr* 6:682-686.
41. Neu A, Lederman HM, Fivush B. 1994. *Neisseria sica* peritonitis in a patient maintained on chronic peritoneal dialysis. *Pediatr Nephrol* 8:601-602.
42. Sethi DS, Winkelstein JA, Lederman HM, Loury MC. 1995. Immunologic defects in patients with chronic recurrent sinusitis: diagnosis and management. *Otolaryngol Head Neck Surg* 112:242-247.
43. Rubin SA, Sierra-Honigmann AM, Lederman HM, Waltrip RW, Eiden JJ, Carbone KM. 1995. Hematologic consequences of Borna disease virus infection of rat bone marrow and thymus stromal cells. *Blood* 85:2762-2769.
44. Neu AN, Case B, Lederman HM, Fivush BA. 1995. IgG subclass levels in pediatric patients on chronic peritoneal dialysis. *Pediatr Nephrol* 9:186-189.
45. Neu AM, Fivush BA, Lederman HM. 1995. Cytokine production by peripheral blood mononuclear cells from pediatric chronic peritoneal dialysis patients. *Pediatr Nephrol*, 9:333-336.
46. Fantry L, De Jonge E, Lederman HM. 1995. Immunodeficiency with elevated CD4+ T lymphocyte counts in two patients coinfecting with human immunodeficiency virus and human lymphotropic virus type I. *Clin Infect Dis* 21:1466-1468.
47. Furth SL, Neu AM, Case B, Lederman HM, Steinhoff M, Fivush, B. 1996. Pneumococcal polysaccharide

vaccine in children with chronic renal disease: A prospective study of antibody response and duration. *J Pediatr*, 128:99-101.

48. Neu AM, Lederman HM, Warady BA, Fivush B. 1996. *Hemophilus Influenza* type b immunizations in infants on peritoneal dialysis. *Pediatr Nephrol*, 10:84-85.
49. Lederman HM. 1996. IVIG therapy. Separating fact from wishful thinking. *Contemp Pediatr*. 13:75-92.
50. Bollinger ME, Arrendondo-Vega FX, Santisteban I, Schwarz K, Hershfield MS, Lederman HM. 1996. Hepatic dysfunction as a complication of adenosine deaminase deficiency. *N Engl J Med*, 334:1367-1371.
51. Fasano MB, Sullivan K, Sarpong S, Wood RA, Jones SM, Johns CJ, Lederman HM, Bykowski MJ, Greene JM, Winkelstein JA. 1996. Sarcoidosis and common variable immunodeficiency: Report of 8 cases and review of the literature. *Medicine*, 75:251-261.
52. Eigenmann PA, Ambinder RF, Lederman HM. 1997. Chronic sinusitis with acquired immunoglobulin A (IgA) deficiency after bone marrow transplantation. *Otolaryngol Head Neck Surg* 117:S226-S228.
53. Sullivan KE, Veksler E, Lederman HM, Lees-Miller SP. 1997. Cell cycle checkpoints and DNA repair in Nijmegen breakage syndrome. *Clin Immunol Immunopathol*, 82:43-48.
54. Ozsahin H, Arredondo-Vega FX, Santisteban I, Fuhrer H, Tuchschnid P, Jochum W, Aguzzi A, Lederman HM, Fleishman A, Winkelstein JA, Seger RA, Hershfield MS. 1997. Adenosine deaminase deficiency in adults. *Blood* 89:2849-2855.
55. Sicherer SH, Lederman HM. 1997. Clinical Allergy Immunology Rounds: An erythematous rash, diarrhea, failure to thrive and lymphadenopathy in a 3 month old girl. *Ann Allergy Asthma Immunol* 78:253-258.
56. Ameratunga R, Lederman HM, Sullivan KE, Ochs HD, Seyama K, French JK, Prestidge R, Marbrook J, Fanslow WC, Winkelstein JA. 1997. Defective antigen-induced lymphocyte proliferation in the X-linked hyper-IgM syndrome. *J Pediatr*, 131:147-150.
57. Neu AM, Warady BA, Furth SL, Lederman HM, Fivush BA. 1997. Antibody levels to diphtheria, tetanus and rubella in infants vaccinated while on peritoneal dialysis: A study of the pediatric peritoneal dialysis study consortium. *Adv Perit Dial* 13:297-299.
58. Sicherer SH, Cabana MD, Perlman EJ, Lederman HM, Matsakis RR, Winkelstein JA. 1998. Thymoma and cellular immune deficiency in an adolescent. *Pediatr Allergy Immunol* 9:49-52.
59. Fleischman A, Hershfield MS, Toutain S, Lederman HM, Sullivan KE, Fasano MB, Greene J, Winkelstein JA. 1998. Adenosine deaminase deficiency and purine nucleoside phosphorylase deficiency in common variable immunodeficiency. *Clin Diagn Lab Immunol*, 5:399-400.
60. Sicherer SH, Bollinger ME, Hershfield MS, Sampson HA, Lederman HM. 1998. Food allergy in a patient with adenosine deaminase deficiency undergoing enzyme replacement with polyethylene glycol-

modified adenosine deaminase. *J Allergy Clin Immunol* 101:561-562.

61. Cabana MD, Crawford TO, Winkelstein JA, Christensen JR, Lederman HM. 1998. Consequences of the delayed diagnosis of ataxia-telangiectasia. *Pediatrics* 102:98-100.
62. Nowak-Wegrzyn AH, Lederman HM. 1998. A seven year old girl with cerebral palsy and multiple warts. *Ann Allergy Asthma Immunol* 81:195-201,
63. Wallis RS, Lederman HM, Spritzler J, Devers JL, Georges D, Weinberg A, Stehn S, Lederman MM, and the ACTG Inducible Cytokines Focus Group. 1998. Measurement of induced cytokines in AIDS clinical trials using whole blood: A preliminary report. *Clin Diagn Lab Immunol* 5:556-560.
64. Bowers DC, Lederman HM, Sicherer SH, Winkelstein JA, Chen AR. 1998. Successful reconstitution of deficiency of complete DiGeorge anomaly by transplantation of peripheral blood mononuclear cells. *Lancet* 352:1983-1984.
65. Neu AM, Warady BA, Lederman HM, Furth SL, Fivush BA. 1998. Hypogammaglobulinemia in infants and young children maintained on peritoneal dialysis. *Pediatric Dialysis Study Consortium. Perit Dial Int* 18:440-443.
66. Humphrey JH, Quinn T, Fine D, Lederman HM, Yamini S, Wu LSF, Moeller S, Ruff AJ. 1999. Short term effects of large dose vitamin A supplementation on viral load and immune response among HIV infected women. *J AIDS Hum Retroviruses* 20:44-51.
67. Lewis RF, Lederman HM, Crawford, TO. 1999. Ocular motor abnormalities in Ataxia Telangiectasia. *Ann Neurol*, 46:287-295.
68. Sadighi-Akha A, Humphrey RL, Winkelstein JA, Loeb DM, Lederman HM. 1999. Oligoclonal gammopathy and hypergammaglobulinemia in Ataxia-Telangiectasia. *Medicine*, 78:370-381.
69. Lubaki NM, Shepherd ME, Brookmeyer RS, Hon H, Quinn TC, Kashamuka M, Johnson M, Gottle R, Devers J, Lederman HM, Bollinger RC. 1999. HIV-1 specific cytolytic T lymphocyte activity correlates with lower viral load, higher CD4 count and CD8<sup>+</sup>CD38<sup>-</sup>DR<sup>-</sup> phenotype. Comparison of statistical methods for measurements. *J Acquir Immune Defic Syndr*, 22:19-30.
70. Nowak-Wegrzyn A, Lederman HM. 1999. Supply, use and abuse of intravenous immunoglobulin. *Curr Opin Pediatr*, 11:533-539.
71. Minegishi Y, Rohrer J, Coustan-Smith E, Lederman HM, Pappu R, Campana D, Chan AC, Conley ME. 1999. An essential role for BLNK in human B cell development. *Science* 286:1954-1957.
72. Lefton-Greif MA, Crawford TO, Winkelstein JA, Loughlin GM, Koerner CB, Zahurak M, Lederman HM. 2000. Oropharyngeal dysphagia and aspiration in patients with ataxia-telangiectasia. *J Pediatr* 136:225-231.
73. Crawford TO, Mandir AS, Lefton-Greif MA, Goodman SN, Goodman BK, Sengul H, Lederman HM. 2000. Quantitative neurologic assessment of ataxia-telangiectasia. *Neurol* 54:1505-1509.



74. Valdez H, Smith KY, Landay A, Connick E, Kuritzkes DR, Kessler H, Fox L, Spritzler J, Roe J, Lederman MB, Lederman HM, Evans TG, Heath-Chiozzi M, Lederman MM, and the ACTG 375 Team. 2000. Response to immunization with recall and neoantigens after prolonged administration of an HIV-1 protease inhibitor (PI)-containing regimen. *AIDS* 14:11-21.
75. Mostofsky SH, Kunze JC, Cutting L, Lederman HM, Denckla MB. 2000. Judgment of duration in individuals with ataxia-telangiectasia. *Dev Neuropsychol* 17:63-74.
76. Betensky RA, Connick E, Devers J, Landay A, Nokta M, Plaeger S, Rosenblatt H, Schmitz J, Valentine F, Wara D, Weinberg A, Lederman H. 2000. Shipment impairs lymphocyte proliferative responses to microbial antigens. *Clin Diag Lab Immunol* 7:759-763.
77. Nowak-Wegrzyn A, Winkelstein JA, Swift AJ, Lederman HM and the Pneumococcal Conjugate Vaccine Study Group. 2000. Serum opsonic activity in infants with sickle cell disease immunized with pneumococcal polysaccharide protein-conjugate vaccine. *Clin Diag Lab Immunol* 7:788-793.
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