CURRICULUM VITAE

Name: David A. Schwartz, M.D., M.P.A.

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Education and Medical Education:

1971-1975	University of Rochester College of Arts and Sciences Rochester, New York	B.A. (Biology)
1975-1979	University of California, San Diego School of Medicine La Jolla, California	M.D.
1979	Walter Reed Army Institute of Research Tropical Medicine Training	
1979-1980	Public Service Science Resident National Science Foundation	
1980-1983	Boston City Hospital Boston, Massachusetts	Medicine Intern and Resident
1983-1984	Boston City Hospital Boston, Massachusetts	Chief Resident in Medicine
1984-1985	Harvard School of Public Health Boston, Massachusetts	M.P.H. Occupational Medicine
1985-1987	Robert Wood Johnson Clinical Scholars Program University of Washington Seattle, Washington	Research Fellow
1985-1988	Division of Pulmonary and Critical Care Medicine University of Washington Seattle, Washington	Pulmonary and Critical Care Fellow
1994-1995	Sabbatical in laboratory of Dr. Jeffrey Murray	

Academic Appointments:

1988-1992	Pulmonary Disease Division Department of Internal Medicine The University of Iowa Iowa City, Iowa	Assistant Professor Director of Occupational Medicine

1989-2000	Veterans Administration Medical Center Iowa City, Iowa (5/8) Full time	Staff Physician
1992-1996	Pulmonary Disease, Critical Care, and Occupational Medicine Division Department of Internal Medicine The University of Iowa Iowa City, Iowa	Associate Professor Director of Occupational Medicine
1996-2000	Pulmonary Disease, Critical Care, and Occupational Medicine Division Department of Internal Medicine The University of Iowa Iowa City, Iowa	Professor of Medicine Director of Occupational Medicine
1996-2000	Department of Internal Medicine The University of Iowa Iowa City, Iowa	Associate Chair for Program Development
1997-2000	College of Medicine The University of Iowa Iowa City, Iowa	Director, Center for Environmental Lung Disease
1997-2000	College of Medicine The University of Iowa Iowa City, Iowa	Co-PI/Associate Director Environmental Health Sciences Research Center
1999-2000	College of Medicine The University of Iowa Iowa City, Iowa	Member, MSTP Member, Genetics Program
2000-2005	Duke University Medical Center Durham, North Carolina	Chief, Division of Pulmonary and Critical Care Medicine
2000-2005	Duke University Medical Center Durham, North Carolina	Director, Center for Environmental Genomics, Institute for Genome Science and Policy
2000-2004	Veterans Administration Medical Center Durham, North Carolina (5/8 full time)	Staff Physician
2001-2005	Duke University Medical Center Durham, North Carolina Durham, North Carolina	Walter Kempner Professor of Medicine
2003-2005	Department of Medicine Duke University Medical Center Durham, North Carolina	Vice Chair for Research
2000-2005	Duke University Medical Center Durham, North Carolina	Professor of Medicine and Genetics
2001-2005	Nicholas School of the Environment and Earth Sciences Duke University	Professor of Environmental Sciences and Policy

2005-present	Nicholas School of the Environment and Earth Sciences Duke University	Adjunct Professor of Environmental Sciences and Policy
2005-present	National Institute of Environmental Health Sciences National Institutes of Health Research Triangle Park, North Carolina	Director
2005-present	National Toxicology Program National Institutes of Health Research Triangle Park, North Carolina	Director

Certification:

1981 Diplomate, National Board of Medical Examiners (#214457)
1984 Diplomate, American Board of Internal Medicine (#095708)
1984 American Heart Association in Advanced Cardiac Life Support
1984 American College of Surgeons Certificate in Advanced Trauma Life Support
1986 Diplomate, American Board of Occupational Medicine (#22231)
1988 Diplomate, American Board of Internal Medicine Subspecialty Board on Pulmonary Disease (#95708)

Licensures:

North Carolina (#2000-01430); Iowa (#26719); District of Columbia (#21699); Texas (#M0903)

Scholarly Societies:

1974 Phi Beta Kappa
1979 National Science Foundation, Public Service Science Resident
1985 Robert Wood Johnson Clinical Scholar

Professional Awards and Special Recognitions:

1991 Member, American Federation of Clinical Research
1995 Member, American Society for Clinical Investigation (ASCI)
1999 Member, Association of the American Physicians (AAP)
2003 American Thoracic Society Scientific Accomplishment Award

Study Section, Editorial Boards, and Consultant Appointments:

1993-1997 Member, ALA/ATS Research Grant Review Committee
1995-1999 Member, NIH Study Section GCRC, NCRR
1997-2000 Member and Chair, VA Merit Review Board - Pulmonary Section
1999-2003 Member, NIH Environmental Health Science Review Committee
2001-Present Member, NIH, NHLBI Innovative Grant Program Review Committee
1993-1996 Member, Editorial Board, American Review of Respiratory Disease
1997-Present Member, Editorial Board, American Journal of Medicine
2003-Present Member, Editorial Board, Environmental Health Perspectives
2003-Present Member, Editorial Board, American Journal of Respiratory Cell and Molecular Biology

1998-2000 Scientific Consultant to Biogen Corporation
1999-Present Scientific Consultant to Eisai Corporation
2000-Present Scientific Consultant to InterMune Corporation
2000-Present Member, Duke Comprehensive Cancer Center
2001-Present External Advisor, Thomas L. Petty Aspen Lung Conference

Organizations and Participation:

American College of Chest Physicians
American College of Physicians
2001-Present Member, Interstitial and Diffuse Lung Disease NetWork
American Federation for Clinical Research
American Society for Clinical Investigation (ASCI)
Association of the American Physicians (AAP)
American Society of Human Genetics
American Public Health Association
Society of General Internal Medicine
American Thoracic Society

1993-1997	Member, ALA/ATS Research Grant Review Committee
1994	Member, ATS Planning Committee
1994-1999	Member and Chair, ATS Health Care Policy Committee
1996	Co-Chair, Health Care Policy Task Force
1999	Member, ATS Nomination Committee
2000	Chair, ATS Government Relations Committee
2001-present	Member, ATS Scientific Advisory Committee
2002-present	Member, ATS Publications Policy Committee
2002-present	Chair, ATS Planning Committee

Area of Research:

- Pulmonary Fibrosis
- Endotoxin-Induced Airway Disease
- Genetics/Genomics of Environmental Lung Disease
- Genetics/Genomics of Host Defense

Grant Support:

Title	Period	Total Direct Funding
Active:		
NIH-NIEHS: Z01. Asthma, Interstitial Lung Disease and Innate Immunity	5/23/05-5/22/10	$1,800,000
NIH-NIEHS: K23 – TLR4 and Environmental Asthma Principal Investigator: John Sundy Mentor: Schwartz	9/30/01-9/29/06	$500,000
NIH-NHLBI: K23 – Innate Immunity in Lung Transplantation induced Bronchiolitis Obliterans Principal Investigator: Scott Palmer Mentor: Schwartz	7/1/02-6/30/07	$500,000
NIH-NIEHS: K08 – Innate Immune Response to Environmental Endotoxin Principal Investigator: John Hollingsworth Mentor: Schwartz	2/1/04-1/31/09	$500,000
Previous:		
NIH-NIEHS: U19. Center for	9/30/01-9/29/06	$7,559,614

Environmental Genomics Principal Investigator: Schwartz		
NIH-NIEHS: P01. PPG The Genetics and Pathogenesis of Environmental Asthma Principal Investigator: Schwartz Project 1: PI Schwartz	12/1/03-11/30/08	$7,200,000
NIH-NIAID: R21. Gene Susceptibility to F. Tularensis Co-Investigator: Schwartz	9/30/04-9/29/08	$200,000
NIH-NIEHS: P30. EHSRC - Center for Comparative Biology of Vulnerable Populations Principal Investigator: Schwartz	4/1/04-3/31/08	$4,004,000
NIH-NIEHS: R01. Biological Determinants of Environmental Airway Injury Principal Investigator: Schwartz	9/1/95-8/31/06	$1,500,000
NIH-NHLBI: U01. A Linkage Study in Familial Pulmonary Fibrosis Principal Investigator: Schwartz	9/29/00-9/28/05	$3,457,673
VA Merit. Positional Cloning of Novel Genes Involved In Innate Immunity Principal Investigator: Schwartz	1/1/03-12/31/08	$733,000
NIH-NHLBI: U01: Mouse Models of Heart, Lung and Blood Disease Principal Investigator: Peters Lung Core: Schwartz	9/30/00-9/29/08	$934,003
NIH-NHLBI: Interdisciplinary Training Program Grant in Lung Disease (T32) Principal Investigator: Schwartz	7/1/04-6/30/09	$2,237,579
GSK Fellowship Award Innate Immunity and Environmental Airway Disease Principal Investigator: John Hollingsworth Mentor: Schwartz	7/1/03-6/30/04	$40,000
VA Merit Review Entry Proposal (MREP) The Role for beta-arrestin-2 in Regulating Lung Inflammatory Disorders Principal Investigator: Julia Walker Mentor: Schwartz	2/1/04-1/31/07	$385,178
NIH: K12 Genomic Approach to Innate Immunity To *Aspergillus* Principal Investigator: Aimee Zaas Mentor: Schwartz	7/1/03-6/30/05	$130,808
NIH-NHLBI: Microarray Expression Profiling Of Rodent Models of Human Disease Principal Investigator: Quackenbush	9/30/00-9/29/04	$384,253

Lung Core: Schwartz		
NIH-NIEHS: P50. The Etiology and Pathogenesis of Airway Disease in Children from Rural Communities Project 2 PI: Schwartz	10/1/98-9/30/03	
NIH-NIEHS: PPG in Environmental Airway Disease Principal Investigator: Schwartz Project 2 PI: Schwartz	9/1/98-8/31/03	$5,148,708
VA Merit. Positional Cloning of the Lps Response Gene. Principal Investigator: Schwartz	9/1/97-8/31/02	$500,000
NIH-NHLBI: RO1. Host Determinants of Organic Dust-Induced Airway Disease Principal Investigator: Schwartz	12/1/98-11/30/02	$758,114
CDC. Persian Gulf Research Project Principal Investigator: Schwartz	12/1/94-4/30/00	$3,500,000
NIH-NIEHS: Environmental Health Science Research Center Immunogenetics Facility Director: Schwartz Pulmonary Biology Core Director: Schwartz Co-Principal Investigator: Schwartz	4/1/96-3/31/01	$4,500,000
Short-term Training: Students in Health Professional Schools Principal Investigator: Schwartz	5/1/00-4/30/05	$842,840
NIH-K08: Neutrophil Recruitment in In LPS-induced Airway Disease Principal Investigator: Klekamp	7/1/00-6/30/05	$513,000
NIH-K08: Genetic Determinants of Pulmonary Fibrosis Principal Investigator: Will	7/1/00-6/30/05	$540,000
NIH-K08: Genetic Susceptibility to Inhaled Lipopolysaccharide Principal Investigator: Cowden	7/1/99-6/30/04	$540,000
VA Merit: Grain Dust-Induced Airway Disease. A Longitudinal Study Principal Investigator: Schwartz	4/1/90-3/31/95	$357,341
NIH-NIEHS: R01. Grain Dust, Endotoxin, and Airflow Obstruction Principal Investigator: Schwartz	9/01/93-8/31/98	$715,176
NIH-NHLBI: SCOR for Occupational and Immunologic Lung Disease. Project I: Determinants of the Disease	12/01/91-11/30/96	$343,288

Activity and Prognosis for Interstitial Lung Disease. Principal Investigator: Schwartz		
NIH-NHLBI: SCOR for Occupational and Immunologic Lung Disease. Clinical Core. Principal Investigator: Schwartz	12/01/91-11/30/96	$2,410,888
Cystic Fibrosis Pilot Feasibility Study Principal Investigator: Schwartz	9/1/95-8/31/96	$40,000
NIH-NIOSH: Agricultural Center. Biomarkers in Grain Dust-Induced Airway Disease. Principal Investigator: Schwartz	10/01/90-9/30/95	$506,011
NIH-NIEHS: CIA. The Epidemiology of Vegetable Dust-Induced Airway Disease. Principal Investigator: Schwartz	4/01/90-3/31/95	$300,000
VA-Merit. Grain Dust-Induced Airway Disease: A Longitudinal Study. Principal Investigator: Schwartz	4/01/90-3/31/95	$357,341
Asbestos Victims Special Fund Trust. A Reliable and Valid Radiographic Approach to Quantify Asbestos-Induced Lung Disease Principal Investigator: Schwartz	1/01/92-6/30/93	$140,711
NIH-NIOSH SERCA. Asbestos-Induced Pleural Fibrosis and Lung Restriction. Principal Investigator: Schwartz	7/01/90-6/30/93	$150,000
NIH-NIEHS: Environmental Health Sciences Core Center Grant. Director Pulmonary Biology Research Core: Schwartz Principal Investigator: Merchant	9/29/90-3/31/96	$342,707

Patents Awarded:

"Use of nucleic acids containing unmethylated CpG dinucleotide int the treatment of LPS-associated disorders" US Patent application serial no: 6,214,806B1; awarded April 2001

“Variant TLR4 nucleic acid and uses thereof” US Patent application serial no: 6,740,487 B1; awarded May 25, 2004

Patents Pending:

“Toll-like receptor 4 mutations” US Patent application serial no: 10/316,191

“Identification of a novel protein target for the treatment of (allergic) asthma” US Patent application serial no:

Original Manuscripts:

1. Patterson B, Craven D, Schwartz DA, Nardell EA, Kasmer J, Noble J. Occupational hazards to hospital personnel. Ann Intern Med 1985; 102:658-680.

2. Schwartz DA, Newsum L, Heifetz RM. Parental occupation and birth outcome in an agricultural community. Scand J Work Environ Health 1986; 12:51-54.

3. Schwartz DA, Reilly P. The choice not to be resuscitated. J Am Geriatr Soc 1986; 34:807-811.

4. Schwartz DA. Acute inhalational injury. State Art Rev Occup Med 1987; 2:297-318.

5. Clark JG, Schwartz DA, Flournoy N, Sullivan KM, Crawford SW, Thomas ED. Risk factors for airflow obstruction in recipients of bone marrow transplants . Ann Intern Med 1987; 107:648-656.

6. Schwartz DA, Baker EL. Respiratory illness in the construction industry: Airflow obstruction among painters. Chest 1988; 93:134-137.

7. Schwartz DA, Rosenstock L, Barnhart S, Inui T. Screening for occupational disease among workers in a high-risk trade: examination of cost, yield, and potential for increased efficiency. Am J Industrial Med 1988; 13:241-252.

8. Crawford SW, Schwartz DA, Peterson FB, Clark JG. Mechanical ventilation after marrow transplantation: Risk factors and clinical outcomes. Am Rev Respir Dis 1988; 137:682-687.

9. Schwartz DA, LoGerfo JP. Congenital limb reduction defects in the agricultural setting. Am J Public Hlth 1988; 78:654-659.

10. Schwartz DA, Vaughan TL, Heyer NJ, Koepsell TD, Lyon JL, Swanson GM, Weiss NS. B cell neoplasms and occupational asbestos exposure. Am J Industrial Med 1988; 14:661-671.

11. Schwartz DA, Rosenstock L, Clark JG. Monocyte-derived growth factors in asbestos-induced interstitial fibrosis. Environ Res 1989; 49:283-294.

12. Schwartz DA, Smith DD, Lakshminarayan S. The pulmonary sequelae associated with accidental inhalation of chlorine gas. Chest 1990; 97:820-825.

13. Schwartz DA, Fuortes LJ, Galvin JR, Schmidt LE, Leistikow BN, LaMarte FP, Merchant JA. Asbestos-induced pleural fibrosis and impaired lung function. Am Rev Respir Dis 1990; 141:321-326.

14. Schwartz DA, Galvin JR, Dayton CS, Stanford W, Merchant JA, Hunninghake GW. Determinants of restrictive lung function in asbestos-induced pleural fibrosis. J Appl Physiol 1990; 68:1932-1937.

15. Rosenstock L, Daniell W, Barnhart S, Schwartz D, Demers PA. Chronic neuropsychological sequelae of occupational exposure to organophosphate insecticides. Am J Ind Med 1990; 18:321-325.

16. Kern JA, Schwartz DA, Nordberg JA, Weiner DB, Greene MI, Torney L, Robinson RA. p185neu expression in human lung ademocarcinomas predicted shortened survival. Cancer Res 1990; 50:5184-5191.

17. Schwartz DA. New developments in asbestos-induced pleural disease. Chest 1991; 99:191-198.

18. Schwartz DA, Wakefield DS, Fieselmann JF, Berger-Wesley M, Zeitler R. The occupational history in the primary care setting. Am J Med 1991; 90:315-319.

19. Peterson MW, Geist LJ, Schwartz DA, Konicek S, Moseley PL. Outcome after cardiopulmonary resuscitation in a medical intensive care unit. Chest 1991; 100:168-174.

20. Schwartz DA, Galvin JR, Merchant RK, Dayton CS, Merchant JA, Hunninghake GW. The clinical utility and reliability of asbestos bodies in bronchoalveolar fluid. Am Rev Respir Dis 1991; 144:684-688.

21. Schwartz DA, Merchant RK, Helmers RA, Gilbert SR, Dayton CS, Hunninghake GW. The influence of cigarette smoking on lung function in patients with idiopathic pulmonary fibrosis. Am Rev Respir Dis 1991; 144:504-506.

22. Landas SK, Schwartz DA. Mica-associated pulmonary interstitial fibrosis: A case report. Am Rev Respir Dis 1991; 144:718-721.

23. Schwartz DA, Helmers RA, Dayton CS, Merchant RK, Hunninghake GW. Determinants of bronchoalveolar lavage cellularity in idiopathic pulmonary fibrosis. J Appl Physiol 1991; 71(5):1688-1693.

24. Schmidt LE, Thorne PS, Watt JL, Schwartz DA. Is an abbreviated bronchial challenge with histamine valid? Chest 1992; 101:141-145.

25. Broderick A, Fuortes LJ, Merchant JA, Galvin JR, Schwartz DA. Pleural determinants of restrictive lung function and respiratory symptoms in an asbestos-exposed population. Chest 1992; 101:684-691.

26. Schwartz DA, Galvin JR, Merchant RK, Dayton CS, Merchant JA, Hunninghake GW. Influence of cigarette smoking on bronchoalveolar lavage cellularity in asbestos-induced lung disease. Am Rev Respir Dis 1992; 145:400-405.

27. Schwartz DA, Landas SK, Burmeister LF, Hunninghake GW, Merchant JA. Airway injury in swine confinement workers. Ann Intern Med 1992; 116:630-635.

28. Merchant RK, Schwartz DA, Helmers RA, Dayton CS, Hunninghake GW. Bronchoalveolar lavage cellularity: The distribution in normal volunteers. Am Rev Respir Dis 1992; 146:448-453.

29. Dayton CS, Schwartz DA, Helmers RA, Pueringer RJ, Gilbert SR, Merchant RK, Hunninghake GW. Outcome of subjects with idiopathic pulmonary fibrosis who fail corticosteroid therapy - implications for further studies. Chest 1993; 103:69-73.

30. Pueringer RJ, Schwartz DA, Dayton CS, Gilbert SR, Hunninghake GW. The relationship between alveolar macrophage TNF, IL-1, and PGE_2 release, alveolitis, and disease severity in sarcoidosis. Chest 1993; 103:832-838.

31. Schwartz DA, Galvin JR, Yagla SJ, Speakman SB, Merchant JA, Hunninghake GW. Restrictive lung function and asbestos-induced pleural fibrosis: A quantitative approach. J Clin Invest 1993; 91:2685-2692.

32. Shih JF, Hunninghake GW, Goeken NE, Galvin JR, Merchant JA, Schwartz DA. The relationship between HLA-A, B, DQ, and DR antigens and asbestos-induced lung disease. Chest 1993; 104:26-31.

33. Kline JN, Schwartz DA, Monick MM, Floerchinger CS, Hunninghake GW. Relative release of interleukin-1β and interleukin-1 receptor antagonist by alveolar macrophages: a study in asbestos-induced lung disease, sarcoidosis, and idiopathic pulmonary fibrosis. Chest 1993; 104:47-53.

34. Schwartz DA, Galvin JR, Frees KL, Dayton CS, Burmeister LF, Merchant JA, Hunninghake GW. Clinical relevance of cellular mediators of inflammation in workers exposed to asbestos. Am Rev Respir Dis 1993; 148:68-74.

35. Clapp WD, Thorne PS, Frees KL, Zhang X, Lux CR, Schwartz DA. The effects of inhalation of grain dust extract and endotoxin on upper and lower airways. Chest 1993; 104:825-830.

36. Hartley PG, Galvin JR, Hunninghake GW, Merchant JA, Yagla SJ, Speakman SB, Schwartz DA. High resolution CT-derived measures of lung density are valid indexes of interstitial lung disease. J App Physiol 1994; 76:271-282.

37. Schwartz DA, Van Fossen DS, Helmers RA, Dayton CS, Burmeister LF, Hunninghake GW. Determinants of progression in idiopathic pulmonary fibrosis. Am J Respir Crit Care Med 1994; 149:444-449.

38. Schwartz DA, Helmers RA, Galvin JR, Van Fossen DS, Frees KL, Dayton CS, Burmeister LF, Hunninghake GW. Determinants of survival in idiopathic pulmonary fibrosis. Am J Respir Crit Care Med 1994; 149:450-454.

39. Kern JA, Slebos R, Top B, Robinson R, Weiner D, Schwartz DA. C-ERBB-2 expression and codon 12 K-RAS mutations both predict shortened survival for patients with pulmonary adenocarcinomas. J Clin Invest 1994; 93:516-520.

40. Hunninghake GW, Gilbert S, Pueringer R, Dayton C, Floerchinger C, Helmers R, Merchant R, Schwartz DA. Outcome of the treatment for sarcoidosis. Am J Respir Crit Care Med 1994; 149:893-898.

41. Shih JF, Wilson JS, Broderick A, Watt JL, Galvin JR, Merchant JA, Schwartz DA. Asbestos-induced pleural fibrosis and impaired exercise physiology. Chest 1994; 105:1370-1376.

42. Clapp WD, Becker S, Quay J, Watt JL, Thorne PS, Frees KL, Zhang X, Koren HS, Lux CR, Schwartz DA. Grain dust-induced airflow obstruction and inflammation of the lower respiratory tract. Am J Respir Crit Care Med 1994; 150:611-617.

43. Schwartz DA, Davis CS, Merchant JA, Bunn WB, Galvin JR, Van Fossen DS, Dayton CS, Hunninghake GW. Longitudinal changes in lung function among asbestos-exposed workers. Am J Respir Crit Care Med 1994; 150:1243-1249.

44. Schwartz, DA, Thorne PS, Jagielo PJ, White GE, Bleuer SA, Frees KL. Endotoxin responsiveness and grain dust-induced inflammation in the lower respiratory tract. Am J Physiol: Lung Cell Mol Physiol 1994; 267:L609-L617.

45. Schwartz DA, Donham KJ, Olenchock SA, Popendorf WJ, Van Fossen DS, Burmeister LF, Merchant JA. Determinants of longitudinal changes in spirometric function among swine confinement operators and farmers. Am J Respir Crit Care Med 1995; 151:47-53.

46. Dayton CS, Schwartz DA, Sprince NL, Yagla SJ, Davis CS, Koehnke RK, Furst DE, Hunninghake, GW. Low dose methotrexate may cause air trapping in patients with rheumatoid arthritis. Amer J Respir Crit Care Med 1995; 151:1189-1193.

47. Quinn TJ, Donham KJ, Merchant JA, Schwartz DA. Peak flow as a measure of airway dysfunction in swine confinement operators. Chest 1995; 107:1303-1308.

48. Schwartz DA, Thorne PS, Yagla SJ, Burmeister LF, Olenchock SA, Watt JL, Quinn TJ. The role of endotoxin in grain dust-induced lung disease. Am J Respir Crit Care Med 1995; 152:603-608.

49. Jagielo PJ, Thorne PS, Kern JA, Quinn TJ, Schwartz DA. The role of endotoxin in grain dust-induced inflammation in mice. Am J Physiol: Lung Cell Mol Physiol 1996; 207:L1052-L1059.

50. Blaski CA, Frees KL, Watt JL, Quinn TJ, Yagla SJ, Thorne PS, Schwartz DA. Nasal lavage cellularity, grain dust, and airflow obstruction. Chest 1996; 109:1086-92.

51. Jagielo PJ, Thorne PS, Watt JL, Frees KL, Quinn TJ, Schwartz DA. Grain dust and endotoxin inhalation produce similar inflammatory responses in normal subjects. Chest 1996; 110:263-270.

52. Blaski CA, Clapp WD, Thorne PS, Quinn TJ, Watt JL, Frees K, Yagla SJ, Schwartz DA. The role of atopy in grain dust-induced airway disease. Am J Respir Crit Care Med 1996; 154:334-340.

53. Saag KG, Kolluri S, Koehnke RK, Georgou TA, Rachow JW, Hunninghake GW, Schwartz DA. Rheumatoid arthritis lung disease: Determinants of radiographic and physiologic abnormalities. Arthritis and Rheumatism 1996; 39:1711-1719.

54. Schwartz DA, and The Iowa Persian Gulf Study Group. Self reported illness and health status among Gulf War veterans. A population-based study. JAMA 1997; 277:238-245.

55. Deetz DC, Jagielo PJ, Quinn TJ, Thorne PS, Bleuer SA, Schwartz DA. The kinetics of grain dust-induced inflammation of the lower respiratory tract. Am J Respir Crit Care Med 1997; 155:254-259.

56. Jagielo PJ, Watt JL, Quinn TJ, Knapp HR, Schwartz DA. Pentoxifylline does not alter the response to inhaled grain dust. Chest 1997; 111:1429-1435.

57. Coxson HO, Hogg JC, Mayo JR, Behzad H, Whittall KP, Schwartz DA, Hartley PG, Galvin JR, Wilson JS, Hunninghake GW. Quantification of idiopathic pulmonary fibrosis using computed tomography and histology. Am J Respir Crit Care Med 1997; 155:1649-1656.

58. Schwartz DA, Quinn TJ, Thorne PS, Yi AK, Krieg AM. CpG motifs in bacterial DNA cause inflammation in the lower respiratory tract. J Clin Invest 1997; 100:68-73.

59. Saag KG, Cerhan JR, Kolljuri S, Hunninghake GW, Schwartz DA The effects of cigarette smoking on rheumatoid arthritis disease severity. Ann Rheum Dis 1997; 56:463-469.

60. Peiffer-Schneider S, Schutte BC, Murray JC, Frees KL, Williamson K, Leysens NJ, Schwartz DA. Exclusion of *Ifa* and *Ifb* as the *Lps* gene and mapping of three markers near the *Lps* locus. Mammalian Genome 1997; 8:785-786.

61. Jagielo PJ, Quinn TJ, Qureshi N, Schwartz DA. Grain dust induced lung inflammation is reduced by *Rhodobacter spheroides* diphosporyl lipid A. Am J Physiol (Lung Cell Mol Physiol) 1998; 274:L26-L31.

62. Trapp JF, Watt JL, Frees KL, Quinn TJ, Nonneman MW, Schwartz DA. The effect of glucocorticoids on grain dust induced airway disease. Chest 1998; 113:505-513.

63. Wohlford-Lenane CL, Deetz DC, Schwartz DA. Cytokine gene expression following inhalation of corn dust. Am J Physiol: Lung Cell Mol Biol 1999; 276:L736-L743.

64. Kline JN, Cowden JD, Hunninghake GW, Watt JL, Wohlford-Lenane CL, Powers LS, Jones MP, Schwartz DA. Variable airway responsiveness to inhaled lipopolysaccharide. Am J Respir Crit Care Med 1999; 160:297-303.

65. Schwartz DA, Wohlford-Lenane CL, Quinn TJ, Krieg AM. Bacterial DNA or oligonucleotides containing unmethylated CpG motifs can minimize LPS-induced inflammation in the lower respiratory tract through an IL-12 dependent pathway. J Immunology 1999; 163:224-231.

66. Black DW, Doebbeling BN, Voelker MD, Clarke WR, Woolson, RF, Barrett DH, Schwartz DA: Quality of life and health services utilization in a population-based sample of military personnel reporting multiple chemical sensitivities. J Occup Environ Med 1999; 41(10):928-933.

67. Becker S, Clapp WD, Quay J, Frees KL, Koren HS, Schwartz DA. Compartmentalization of the inflammatory response to inhaled grain dust. Am J Respir Crit Care Med 1999; 160: 1309-1318.

68. Quinn TJ, Taylor S, Wohlford-Lenane CL, Schwartz DA. IL-10 reduces grain dust-induced airway inflammation and airway hyperreactivity. J Appl Physiol 2000; 88: 173-179.

69. Black DW, Doebbeling BN, Voelker MD, Clarke WR, Woolson RF, Barrett DH, Schwartz DA. Multiple chemical sensitivity syndrome: symptom prevalence and risk factors in a military population. Arch Intern Med 2000; 160: 1169-1176.

70. Arbour NC, Lorenz E, Schutte BC, Zabner J, Kline JN, Jones M, Frees K, Watt JL, Schwartz DA. TLR4 mutation is associated with endotoxin hyporesponsiveness in humans. Nature Genetics 2000; 25:187-191.

71. Doebbeling BN, Clarke WR, Watson D, Torner JC, Woolson RF, Voelker MD, Barrett DH, Schwartz DA. Is there a Persian Gulf War syndrome? Evidence from a large population-based survey of veterans and nondeployed controls. Am J Med 2000; 108(9): 695-704.

72. Kline JN, Jagielo PJ, Watt JL, Schwartz DA. Bronchial hyperreactivity is associated with enhanced grain dust-induced airflow obstruction. J Appl Physiol 2000; 89(3): 1172-1178.

73. Lorenz E, Mira JP, Cornish KL, Arbour NC, Schwartz DA. A novel polymorphism in the Toll-like receptor 2 gene and its potential association with staphylococcal infection. Infect Immun 2000; 68(11): 6398-6401.

74. Zwerling C, Torner JC, Clarke WR, Voelker MD, Doebbeling BN, Barrett DH, Merchant JA, Woolson RF, Schwartz DA. Self-reported postwar injuries among Gulf War veterans. Public Health Rep 2000; 116(4):346-349.

75. George CS, Schwartz DA: The role of endotoxin in acute and chronic grain dust induced airway disease. *Relationships Between Acute and Chronic Effects of Air Pollution*, edited by U. Mohr et al. Washington, ILSI Press, 2000, p. 169-184.

76. Moreland JG, Fuhrman RM, Wohlford-Lenane CL, Quinn TJ, Benda E, Pruessner JA, Schwartz DA. TNF-α and IL-1β are not essential to the inflammatory response in LPS induced airway disease. Am J Physiol: Lung Cell Mol Biol 2001; 280(1):L173-L180.

77. George CLS, Jin H, Wohlford-Lenane CL, O'Neill ME, Phipps JC, O'Shaughnessy P, Kline JN, Thorne PS, Schwartz DA. Endotoxin responsiveness and subchronic grain dust-induced airway disease. Am J Physiol: Lung Cell Mol Biol 2001; 280:L203-L213.

78. Schwartz DA, Christ WJ, Wohlford-Lenane CL. Inhibition of LPS induced airway hyperresponsiveness and airway inflammation by LPS antagonists. Am J Physiol: Lung Cell Mol Physiol 2001; 280: L771-L778.

79. Schromm AB, Lien E, Henneke P, Chow JC, Yoshimura A, Heine H, Latz E, Monks BG, Schwartz DA, Miyake K, Golenbock DT. Molecular genetic analysis of an endotoxin non-responder mutant cell line: a point mutation in a conserved region of MD-2 abolishes endotoxin-induced signaling. J Exp Med 2001; 194:79-88.

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