

## CURRICULUM VITAE

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**Social:** Born: March 3, 1953  
Flushing, New York

### Education and Medical Education:

1971-1974	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:**

1988-2000	Pulmonary Disease Division Department of Internal Medicine The University of Iowa Iowa City, Iowa	Assistant, Associate, Full Professor Director of Occupational Medicine
1989-2000	Veterans Administration Medical Center Iowa City, Iowa	Staff Physician
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
2000-2005	Duke University Medical Center Durham, North Carolina	Professor of Medicine, Genetics, and Environmental Sciences Chief, Division of Pulmonary and Critical Care Medicine Director, Center for Environmental Genomics, Institute for Genome Science and Policy
2000-2005	Veterans Administration Medical Center Durham, North Carolina	Staff Physician
2001-2005	Duke University Medical Center Durham, North Carolina	Walter Kempner Professor of Medicine
2003-2005	Department of Medicine Duke University Medical Center Durham, North Carolina	Vice Chair for Research
2005-2008	National Institute of Environmental Health Sciences National Toxicology Program National Institutes of Health Research Triangle Park, North Carolina	Director
2008-Present	National Jewish Health Denver, Colorado	Professor of Medicine, Pediatrics, and Immunology Director, Center for Genes, Environment, and Health Provost until 2011
2008-Present	University of Colorado Denver School of Medicine Denver, Colorado	Professor of Medicine and Immunology Member, MSTP Member, Colorado Cancer Center Member, Graduate School Faculty Member, Human Medical Genetics Program



### 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
2001-2005	Member, NIH, NHLBI Innovative Grant Program Review Committee
1993-1996	Member, Editorial Board, American Review of Respiratory Disease
1997-2006	Member, Editorial Board, American Journal of Medicine
2003-2008	Member, Editorial Board, Environmental Health Perspectives
2003-2008	Member, Editorial Board, American Journal of Respiratory Cell and Molecular Biology
1998-2000	Scientific Consultant to Biogen Corporation
1999-2005	Scientific Consultant to Eisai Corporation
2000-2005	Scientific Consultant to InterMune Corporation
2000-2005	Member, Duke Comprehensive Cancer Center
2001-Present	External Advisor, Thomas L. Petty Aspen Lung Conference
2005-2006	Chair, Transatlantic Airway Conference Planning Committee
2008	Chair, Helmholtz Center in Environmental Health
2008-Present	Associate Editor, American Journal of Respiratory Cell and Molecular Biology
2009-Present	Member, Tobacco Related Disease Research Program Study Section
2010-Present	Steering Committee, Canine Lifetime Health Project, Morris Animal Foundation

### Organizations and Participation:

American Federation for Clinical Research  
American Society for Clinical Investigation (ASCI)  
Association of 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
2001-2004	Member, ATS Scientific Advisory Committee
2002-2005	Member, ATS Publications Policy Committee
2002-2005	Chair, ATS Planning Committee

### Area of Research:

- Genetics and Genomics of Pulmonary Fibrosis
- Gene Discovery in Innate Immunity
- Epigenetics of Environmental Lung Disease

### Grant Support:

<u>Title</u>	<u>Period</u>	<u>Total Direct Funding</u>
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#### Active:

NIH-NHLBI: RO1-HL095393 Genomic Signatures for Idiopathic Interstitial Pneumonia Principal Investigator: Schwartz	09/24/08-07/31/12	\$2,000,000
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NIH-NHLBI: RO1-HL097163 GWAS in Fibrosing Interstitial Lung Disease Principal Investigator: Schwartz	07/01/09-06/30/14	\$5,623,923
NIH-NHLBI: RO1-HL101251 Asthma: An Epidemic Caused by Epigenetics? Multi-Principal Investigator: Schwartz	07/01/09-06/30/14	\$2,559,813
NIH-NIEHS: P01-ES18181 Determinants of Environmental Airway Disease Principal Investigator: Schwartz Project 3 Co-Leader: Schwartz	09/30/09-09/29/14	\$4,997,747
NIH-NHLBI: P01-HL092870 Mechanisms of Familial Pulmonary Fibrosis Gene and Environment Interactions in Pulmonary Fibrosis Principal Investigator: Blackwell Project Director: Schwartz	01/01/10-12/31/15	\$2,473,497 (Schwartz project)
NIH-NIAID: N01-AI90052 Inner City Asthma Consortium The Role of Epigenetics in Inner City Asthma Principal Investigator: Busse Project Director: Schwartz	09/30/09-9/29/14	\$2,465,777
NIH-NHLBI: RC2-HL101715 Lung Genomics Research Consortium Multi-Principal Investigator: Schwartz	09/30/09-09/29/11	\$12,000,000
NIH-NHLBI: RC1-HL099571 Peripheral Blood Biomarkers for Idiopathic Interstitial Pneumonia Multi-Principal Investigator: Schwartz	09/30/09-09/29/11	\$1,000,000
NIH-NICHD: RC1-HD063508 Antenatal Dietary Supplementation is a Risk Factor for Infant Atopy through Epigenetics Multi-Principal Investigator: Schwartz	09/30/09-09/29/11	\$1,000,000
NIH-NCRR: S10-RR031832 Supercomputer Linux Cluster for Genomics and Proteomics Principal Investigator: Schwartz	04/01/11-03/30/12	\$598,964

**Pending:**

VA-Merit: 1101BX001534 Genetic and Epigenetic Changes in MUC5B And Fibrosing Interstitial Lung Disease Principal Investigator: Schwartz	04/01/12-03/31/16	\$650,000
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NIH-NHLBI: 1P01HL112725 Interstitial Lung Disease: The Genome and the Environment Principal Investigator: Maier Project 2 Project Director: Schwartz	04/01/12-03/13/17	\$3,448,085
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NIH-NHLBI: 1R01HL113368 Beyond Linkage and GWAS in Pulmonary Fibrosis Principal Investigator: Schwartz	04/01/12-03/31/17	\$5,394,290
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**Previous:**

NIH-NIEHS: 1-ZO1-ES101945-01 The Genetic and Biological Determinants of Environmental Airway Disease Principal Investigator: Schwartz	5/23/05-5/22/08	\$600,000
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NIH-NIEHS: 1-ZO1-ES101946-01 The Genetic Determinants of Innate Immunity and Host Defense Principal Investigator: Schwartz	5/23/05-5/22/08	\$600,000
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NIH-NIEHS: 1-ZO1-ES101947 The Genetic Determinants of Interstitial Lung Disease Principal Investigator: Schwartz	5/23/05-5/22/08	\$600,000
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NIH-NIEHS: U19. Center for Environmental Genomics Principal Investigator: Schwartz	9/30/01-9/29/06	\$7,559,614
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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
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NIH-NIAID: R21. Gene Susceptibility to F. Tularensis Co-Investigator: Schwartz	9/30/04-9/29/08	\$200,000
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NIH-NIEHS: P30. EHSRC - Center for Comparative Biology of Vulnerable Populations Principal Investigator: Schwartz	4/1/04-3/31/08	\$4,004,000
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NIH-NIEHS: R01. Biological Determinants of Environmental Airway Injury Principal Investigator: Schwartz	9/1/95-8/31/06	\$1,500,000
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NIH-NIEHS: K23 – TLR4 and Environmental Asthma Principal Investigator: John Sundry Mentor: Schwartz	9/30/01-9/29/06	\$500,000
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NIH-NHLBI: F32 – The Genetics of Environmental Airway Disease Principal Investigator: Jaspal Singh Co-Mentor: Schwartz	1/31/06-1/30/08	\$112,888
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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 <i>Aspergillus</i> 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 Lung Core: Schwartz	9/30/00-9/29/04	\$384,253
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	4/1/96-3/31/01	\$4,500,000

Pulmonary Biology Core Director: Schwartz  
Co-Principal Investigator: Schwartz

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: Willis Mentor: Schwartz	7/1/00-6/30/05	\$540,000
NIH-K08: Genetic Susceptibility to Inhaled Lipopolysaccharide Principal Investigator: Cowden Mentor: Schwartz	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 Activity and Prognosis for Interstitial Lung Disease. Principal Investigator: Schwartz	12/01/91-11/30/96	\$343,288
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	1/01/92-6/30/93	\$140,711

Approach to Quantify Asbestos-Induced Lung Disease  
Principal Investigator: Schwartz

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

NIH-NHLBI: P50-HL094917  
Host Defense Mechanisms in Chronic Lung Disease  
Principal Investigator: Wright  
Co-Investigator: Schwartz 12/01/06-11/30/11 \$12,374,368

NIH-NIAID: R01-AI068804  
Host Susceptibility in *Staph aureus* bacteremia  
Principal Investigator: Fowler  
Co-Investigator: Schwartz 10/01/06-9/30/11 \$2,066,365

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

NIH-NIAID: K08 – Genetic Determinants of *A. Fumigatus* Susceptibility  
Principal Investigator: Aimee Zaas  
Co-Mentor: Schwartz 7/15/05-5/31/09 \$471,576

**Patents Awarded:**

"Use of nucleic acids containing unmethylated CpG dinucleotide in 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

"Toll-like receptor 4 mutations" US Patent application serial no: 10,316,191; awarded July 5 2005

"Polymorphism in Tryptophan Hydroxylase-2 Controls Brain Serotonin Synthesis" US Patent application serial no: 7585627; awarded September 8, 2009

"Variant TLR4 nucleic acid and uses thereof" US Patent serial no: 7,785,794; awarded August 31, 2010

**Patents Pending:**

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

"Polymorphic plasminogen genes and uses thereof". US Patent application serial no: 11/108,459.

"Identification and diagnosis of pulmonary fibrosis using mucin genes and related methods and compositions". US Patent application serial no: 60/992,079.

"Peripheral Blood Biomarkers for Idiopathic Interstitial Pneumonia and Methods of Use". US Patent application serial no: 61/248,505.

"Methods and Compositions for Risk Prediction, Diagnosis, Prognosis, and Treatment of Pulmonary Disorders". US Patent application serial no: 61/298,473.

**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 adenocarcinomas 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<sub>2</sub> 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-1 $\beta$  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; 76:271-277.
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, Pependorf 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. Chan-Yeung M, Brooks S, Alberts M, Balmes JR, Barnhart S, Baxcom R, Bernstein L, Grammer LC, Harber P, Malo J-L, Rose C, Schwartz DA, Tarlo SM, Utell MJ. ACCP Consensus Statement. Assessment of asthma in the workplace. *Chest* 1995; 108:1084-1117.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
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