

CURRICULUM VITAE

Name: David A. Schwartz

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:

1988-1992	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

David A. Schwartz, M.D., M.P.H.

Curriculum Vitae

Page 2

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
2000-2004	Veterans Administration Medical Center Durham, North Carolina (5/8 full time)	Staff Physician
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
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
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
2005-2007	Nicholas School of the Environment and Earth Sciences Duke University	Adjunct Professor of Environmental Sciences and Policy
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, Division of Pulmonary and Critical Care Medicine Director, Center for Genes, Environment, and Health Provost, National Jewish Health
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

Certification:

- 1981 Diplomat, National Board of Medical Examiners (#214457)
- 1984 Diplomat, 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 Diplomat, American Board of Preventive Medicine, Occupational Medicine (#22231)
- 1988 Diplomat, American Board of Internal Medicine Subspecialty
Board on Pulmonary Disease (#95708)
- 2005 Special Purpose Examination (#27421098)

Licensures:

North Carolina (#2000-01430); Iowa (#26719); District of Columbia (#21699); Texas (#M0903);
South Carolina (#28514); Colorado (#47224)

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	Elected Member, American Federation of Clinical Research
1995	Elected Member, American Society for Clinical Investigation (ASCI)
1999	Elected Member, Association of the American Physicians (AAP)
2000-2010	Best Doctors in America
2003	American Thoracic Society Lifetime Scientific Achievement Award
2004	Kass Medal, University of Nebraska
2005-2008	Director, National Institute of Environmental Health Sciences, NIH
2005-2008	Director, National Toxicology Program, Department of Health and Human Services
2006	Jerome Flance Visiting Professor, Washington University
2006-2007	Castle Connolly American Top Doctor
2007	Best Doctors in North Carolina
2007	Robert S. Harris Lecturer, Massachusetts Institute of Technology
2007	Roger Mitchell Lecturer, Aspen Lung Conference
2008	Nancy Middleton Smith Lecturer, University of Louisville
2008	Alice Hamilton Lecturer, University of California, San Francisco
2009	Who's Who in America; Medicine, and Healthcare; and American Politics
2009	America's Top Physicians
2009	Best Doctors in America

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
2008-2009	Member, Respiratory Disorders Advisory Board for F1000 Medicine

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
2001-2004	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>
Active:			
	NIH-NHLBI: RO1-HL095393 Genomic Signatures for Idiopathic Interstitial Pneumonia Principal Investigator: Schwartz	9/24/08-7/31/12	\$2,000,000
	NIH-NHLBI: RO1-HL097163 GWAS in Fibrosing Interstitial Lung Disease Principal Investigator: Schwartz	7/01/09-6/30/14	\$5,623,923
	NIH-NHLBI: RO1-HL101251 Asthma: An Epidemic Caused by Epigenetics? Multi-Principal Investigator: Schwartz	7/01/09-6/30/14	\$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-NIAID (Contract) Inner City Asthma Consortium The Role of Epigenetics in Inner City Asthma Principal Investigator: Busse Project Leader: 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

Pending:

NIH-NHLBI: P01-HL092870 (score=13.7) Mechanisms of Familial Pulmonary Fibrosis Gene and Environment Interactions in Pulmonary Fibrosis Project Director: Schwartz	12/01/09-11/30/14	\$3,112,173
NIH-NHLBI: RO1-HL098383 (score=32; 17 th percentile) Gene and Environment Interactions in Pulmonary Fibrosis Principal Investigator: Schwartz	12/01/09-11/30/14	\$2,473,497
NIH-NCRR: S10-RR027319 Multiplex Genotyping Support for Genetics and Genomics Principal Investigator: Schwartz	04/01/10-03/31/11	\$480,650
NIH-NCRR: S10-RR029183 Supercomputer Linus Cluster for Genomics and Proteomics Principal Investigator: Schwartz	12/01/09-11/30/10	\$999,712

Previous:

NIH-NIEHS: 1-Z01-ES101945-01 The Genetic and Biological Determinants of Environmental Airway Disease Principal Investigator: Schwartz	5/23/05-5/22/08	\$600,000
NIH-NIEHS: 1-Z01-ES101946-01 The Genetic Determinants of Innate Immunity and Host Defense Principal Investigator: Schwartz	5/23/05-5/22/08	\$600,000
NIH-NIEHS: 1-Z01-ES101947 The Genetic Determinants of Interstitial Lung Disease Principal Investigator: Schwartz	5/23/05-5/22/08	\$600,000
NIH-NIEHS: U19. Center for Environmental Genomics Principal Investigator: Schwartz	9/30/01-9/29/06	\$7,559,614
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	9/1/95-8/31/06	\$1,500,000

Environmental Airway Injury Principal Investigator: Schwartz		
NIH-NIEHS: K23 – TLR4 and Environmental Asthma Principal Investigator: John Sundy Mentor: Schwartz	9/30/01-9/29/06	\$500,000
NIH-NHLBI: F32 – The Genetics of Environmental Airway Disease Principal Investigator: Jaspal Singh Co-Mentor: Schwartz	1/31/06-1/30/08	\$112,888
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.	9/1/97-8/31/02	\$500,000

Principal Investigator: Schwartz		
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: 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	10/01/90-9/30/95	\$506,011

in Grain Dust-Induced Airway Disease. Principal Investigator: Schwartz		
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
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 <i>Staph aureus</i> 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

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

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 PGE₂ 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 β 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.
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Original Manuscripts - Submitted:

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