

Name: David A. Schwartz

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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:

1988-2000	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
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 and Genomics Program
2011-Present	University of Colorado Denver School of Medicine	Chair, Department of Medicine Robert W. Schrier Chair of Medicine

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 Preventive Medicine, Occupational Medicine (#22231)
- 1988 Diplomate, American Board of Internal Medicine Subspecialty
Board on Pulmonary Disease (#95708)
- 2005 Special Purpose Examination (#27421098)

Licensures:

Colorado (#47224) and North Carolina (#20000691)

Scholarly Societies:

1974 Phi Beta Kappa
1979 National Science Foundation, Public Service Science Resident
1985 Robert Wood Johnson Clinical Scholar
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)
2012 Fellow, American College of Physicians
2015 Elected Member, American Clinical and Climatological Association (ACCA)
2018 Elected Fellow, European Respiratory Society

Professional Awards and Special Recognitions:

2000-Present 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
2006-2012 Castle Connolly American Top Doctor
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-Present Who's Who in America; Medicine, and Healthcare; Science and Engineering; and American Politics
2010 John Butler Endowed Lecture, University of Washington, Seattle
2010 Borden Lecture, Northwestern University, Chicago
2010-Present Who's Who in the World
2011 Nobel Conference: Epigenetics in Clinical Medicine
2011 Robert F. Johnston Lectureship Honoree, Drexel University
2013 American Thoracic Society Amberson Lecturer
2013 David W. Talmage Lectureship
2013 Jerome Brody Lectureship, Dartmouth-Hitchcock School of Medicine
2014 Bonfils Stanton Foundation, Science and Medicine Award
2014 David Dines Visiting Professor, Mayo Clinic
2014 Robert Wilkins Lecture, Boston University
2015 Paul Beeson Visiting Professor, Yale University
2016 Harold and Marilyn Menkes Lectureship, Johns Hopkins Bloomberg School of Public Health
2016 Champion of Environmental Health Research Award, NIEHS
2017 Nobel Conference: Epigenetics in Clinical Medicine
2019 McLennan Lecture, University of Iowa

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
2008-2016	Associate Editor, American Journal of Respiratory Cell and Molecular Biology
2009-2011	Member, Tobacco Related Disease Research Program Study Section
2010-2015	Steering Committee, Canine Lifetime Health Project, Morris Animal Foundation
2019-Present	Member, Editorial Board Translational Research

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
2015-present	ATS Nominations 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:			
	DoD Focused Program Project: W81XWH-17-1-0597 Idiopathic Pulmonary Fibrosis, a disease initiated by mucociliary dysfunction Principal Investigator: Schwartz	09/30/17-09/29/21	\$7,000,000
	NIH-NHLBI: UH2/3-HL123442 MUC5B, a novel therapeutic target for Idiopathic Pulmonary Fibrosis Principal Investigator: Schwartz	09/22/14-06/30/20	\$7,868,747
	NIH-NHLBI: P01-HL0928701 Mechanisms of Familial Pulmonary Fibrosis Gene and Environment Interactions in Pulmonary Fibrosis Project Director: Schwartz	01/19/10-04/30/21	\$5,000,000 (Schwartz project)

NIH-NHLBI: T32-HL007085 (renewal submitted)	07/01/75-06/30/20	\$4,200,000
Multidisciplinary Research Training in Respiratory Disease Principal Investigators: Schwartz, Schwarz		
NIH-NIEHS: R25-ES025476	04/01/15-03/31/20	\$540,000
Colorado Undergraduate Research in Environmental Health Sciences Principal Investigators: Schwartz, Brown, Repine		
NIH-NHLBI: X01-HL134585	09/01/16-08/30/20	Contributed
Whole Genome Sequencing in Familial and Sporadic IPF (1,500 whole genomes) Principal Investigators: Schwartz, Fingerlin		
NIH-NHLBI: K23-HL138131	09/30/17-09/29/20	\$732,477
Rheumatoid Arthritis Patients as Risk for Interstitial Lung Disease Principal Investigator: Joyce Lee Primary Mentor: Schwartz		
Parker B. Francis Fellowship	07/01/19-06/30/22	\$156,000
Epithelial Biology of the Gain-of-Function MUC5B Promoter Risk Variant for IPF Principal Investigator: Jonathan Kurche Primary Mentor: Schwartz		

Pending:

NIH-NHLBI: R38-HL143511 (funding pending)	12/01/19-11/30/23	\$1,372,436
Colorado StARR Program in Medicine and Pediatrics Principal Investigators: Schwartz, Abmann, Buttrick, Di Paola		
NIH-NHLBI: T32-HL007085 (funding pending)	07/01/75-06/30/25	\$5,526,280
Multidisciplinary Research Training in Respiratory Disease Principal Investigators: Schwartz, Henson, Petrache		
NIH-NHLBI: UG3/UH3-HL151865 (likely pending)	04/01/20-03/31/26	\$6,195,459
Preclinical Pulmonary Fibrosis, an opportune rare disease cohort Principal Investigator: Schwartz		
NIH-NHLBI: R01-HL149836 (19%, resubmitted)	7/01/20-06/30/24	\$3,130,971
Genes and Transcripts that Interact with MUC5B in Pulmonary Fibrosis Principal Investigators: Schwartz, Clouthier, Yang		
DoD: GRANT12899593	04/01/20-03/31/24	\$1,632,580
lncRNAs, Linking Genetic Susceptibility to Molecular Phenotype in IPF Principal Investigator: Schwartz		

Previous:

NIH-NHLBI: R01-HL097163	07/01/09-06/30/19	\$20,800,000
Role of Genetics in Idiopathic Pulmonary Fibrosis (IPF) Principal Investigators: Schwartz, Fingerlin		
NIH-NHLBI: R21/R33-HL120770	07/01/14-06/30/19	\$1,274,000
Functional Genetics in Idiopathic Pulmonary Fibrosis Principal Investigator: Schwartz		
NIH-NHLBI: F32-HL134243	04/01/17-03/30/19	\$150,000
Role of Muc5b in Honeycomb Cyst Formation		

Principal Investigator: Jonathan Kurche
Primary Mentor: Schwartz

NIH-NHLBI: K23-HL136785 Genomic Profiling of Early Pulmonary Fibrosis Principal Investigator: Susan Mathai Primary Mentor: Schwartz	09/30/17-09/29/22	\$985,586
NIH-NHLBI: R01-HL130140 Gene and Environment Interactions in Pulmonary Fibrosis Principal Investigator: Schwartz, Fingerlin 1 st percentile: not accepted since duplicative with P01-HL092870 project	10/01/15–09/30/19	\$1,995,444
NIH-NHLBI: R01-HL101251 Asthma: An Epidemic Caused by Epigenetics? Multi-Principal Investigator: Schwartz	07/01/09-06/30/15	\$2,559,813
NIH-NIEHS: P01-ES18181 Determinants of Environmental Airway Disease in Children Principal Investigator: Schwartz Project 3 Co-Leader: Schwartz	09/30/09-09/29/15	\$4,997,747
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	\$4,000,000
NIH-NHLBI: RO1-HL095393 Genomic Signatures for Idiopathic Interstitial Pneumonia Principal Investigator: Schwartz	09/24/08-07/31/13	\$2,000,000
NIH-NCRR: S10-RR031832 Supercomputer Linux Cluster for Genomics and Proteomics Principal Investigator: Schwartz	04/01/11-02/14/13	\$598,964
NIH-NHLBI: RC2-HL101715 Lung Genomics Research Consortium Multi-Principal Investigator: Schwartz	09/30/09-09/29/12	\$12,000,000
NIH-NHLBI: RC1-HL099571 Peripheral Blood Biomarkers for Idiopathic Interstitial Pneumonia Multi-Principal Investigator: Schwartz	09/30/09-09/29/12	\$1,000,000
NIH-NICHD: RC1-HD063508 Antenatal Dietary Supplementation is a Risk Factor for Infant Atopy through Epigenetics Multi-Principal Investigator: Schwartz	09/30/09-09/29/12	\$1,000,000
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

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 Environmental Airway Injury Principal Investigator: Schwartz	9/1/95-8/31/06	\$1,500,000
NIH-NIEHS: K23 – TLR4 and Environmental Asthma Principal Investigator: John Sundry 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	7/1/03-6/30/04	\$40,000

Innate Immunity and Environmental Airway Disease
Principal Investigator: John Hollingsworth
Mentor: Schwartz

VA Merit Review Entry Proposal (MREP) 2/1/04-1/31/07 \$385,178
The Role for beta-arrestin-2 in Regulating Lung
Inflammatory Disorders
Principal Investigator: Julia Walker
Mentor: Schwartz

NIH: K12 Genomic Approach to Innate Immunity 7/1/03-6/30/05 \$130,808
To *Aspergillus*
Principal Investigator: Aimee Zaas
Mentor: Schwartz

NIH-NHLBI: Microarray Expression Profiling 9/30/00-9/29/04 \$384,253
Of Rodent Models of Human Disease
Principal Investigator: Quackenbush
Lung Core: Schwartz

NIH-NIEHS: PPG in Environmental 9/1/98-8/31/03 \$5,148,708
Airway Disease
Principal Investigator: Schwartz
Project 2 PI: Schwartz

VA Merit. Positional Cloning of the Lps 9/1/97-8/31/02 \$500,000
Response Gene.
Principal Investigator: Schwartz

NIH-NHLBI: RO1. Host Determinants of 12/1/98-11/30/02 \$758,114
Organic Dust-Induced Airway Disease
Principal Investigator: Schwartz

CDC. Persian Gulf Research Project 12/1/94-4/30/00 \$3,500,000
Principal Investigator: Schwartz

NIH-NIEHS: Environmental Health Science 4/1/96-3/31/01 \$4,500,000
Research Center
Immunogenetics Facility Director: Schwartz
Pulmonary Biology Core Director: Schwartz
Co-Principal Investigator: Schwartz

Short-term Training: Students in Health 5/1/00-4/30/05 \$842,840
Professional Schools
Principal Investigator: Schwartz

NIH-K08: Neutrophil Recruitment in 7/1/00-6/30/05 \$513,000
In LPS-induced Airway Disease
Principal Investigator: Klekamp

NIH-K08: Genetic Determinants of 7/1/00-6/30/05 \$540,000
Pulmonary Fibrosis
Principal Investigator: Willis
Mentor: Schwartz

NIH-K08: Genetic Susceptibility to Inhaled 7/1/99-6/30/04 \$540,000
Lipopolysaccharide

Principal Investigator: Cowden Mentor: Schwartz		
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 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	10/01/06-9/30/11	\$2,066,365

Principal Investigator: Fowler
Co-Investigator: Schwartz

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 serial no: 6,214,806B1; awarded April 2001

"Variant TLR4 nucleic acid and uses thereof" US Patent 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: 7,585,627; awarded September 8, 2009

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

"Methods and Compositions for Risk Prediction, Diagnosis, Prognosis, and Treatment of Pulmonary Disorders". US Patent serial no: 8,673,565; awarded March 18, 2014

Patents Pending:

"Biomarkers for the diagnosis and treatment of fibrotic lung disease". US Patent application serial no: 62/624,500; submitted 12/19/2019

"Methods for Predicting Risk of Interstitial Pneumonia". RCE Filed. US Patent application serial no: 14/813.559.

Companies Founded:

Eleven P15, Inc: a company focused on the early diagnosis and treatment of pulmonary fibrosis. Dr. Schwartz is the founder and chief scientific officer.

Original Manuscripts:

- 36,810 total citations; H Factor=95; 90 papers \geq 100 citations (1/27/2020)
- <https://scholar.google.com/citations?user=Aob433gAAAAJ&hl=en>
- <https://www.ncbi.nlm.nih.gov/myncbi/1ti3sh6SFMrko/bibliography/public/>

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. [PMID:3885818]
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. [PMID:3485819]
3. Schwartz DA, Reilly P. The choice not to be resuscitated. *J Am Geriatr Soc* 1986; 34:807-811. [PMID: 3771981]
4. Schwartz DA. Acute inhalational injury. *State Art Rev Occup Med* 1987; 2:297-318. [PMID:3303382]
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. [PMID:3310793]
6. Schwartz DA, Baker EL. Respiratory illness in the construction industry: Airflow obstruction among painters. *Chest* 1988; 93:134-137. [PMID: 3335144]
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. [PMID: 3128110]
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. [PMID: 3278664]
9. Schwartz DA, LoGerfo JP. Congenital limb reduction defects in the agricultural setting. *Am J Public Hlth* 1988; 78:654-659. [PMID: 3369595]
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. [PMID: 3232686]
11. Schwartz DA, Rosenstock L, Clark JG. Monocyte-derived growth factors in asbestos-induced interstitial fibrosis. *Environ Res* 1989; 49:283-294. [PMID: 2473896]
12. Schwartz DA, Smith DD, Lakshminarayan S. The pulmonary sequelae associated with accidental inhalation of chlorine gas. *Chest* 1990; 97:820-825. [PMID: 2323253]
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. [PMID: 2301850]
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. [PMID: 2361895]
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. [PMID: 2220838]
16. Kern JA, Schwartz DA, Nordberg JA, Weiner DB, Greene MI, Torney L, Robinson RA. p185neu expression in human lung adenocarcinomas predicts shortened survival. *Cancer Res* 1990; 50:5184-5191. [PMID: 1974168]
17. Schwartz DA. New developments in asbestos-induced pleural disease. *Chest* 1991; 99:191-198. [PMID: 1984952]

18. Schwartz DA. The clinical relevance of asbestos-induced pleural fibrosis. *Ann N Y Acad Sci* 1991; 643:169-177. [PMID:1809130]
19. 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. [PMID: 2003513]
20. 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. [PMID: 2060338]
21. 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. [PMID: 1892311]
22. 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. [PMID: 1892287]
23. Landas SK, Schwartz DA. Mica-associated pulmonary interstitial fibrosis: A case report. *Am Rev Respir Dis* 1991; 144:718-721. [PMID: 1892315]
24. 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. [PMID: 1761464]
25. Schmidt LE, Thorne PS, Watt JL, Schwartz DA. Is an abbreviated bronchial challenge with histamine valid? *Chest* 1992; 101:141-145. [PMID: 1729060]
26. 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. [PMID: 8404231]
27. 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. [PMID: 1736749]
28. Schwartz DA, Landas SK, Burmeister LF, Hunninghake GW, Merchant JA. Airway injury in swine confinement workers. *Ann Intern Med* 1992; 116:630-635. [PMID: 1546862]
29. 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. [PMID: 1489138]
30. Hempel SL, Schwartz DA, Hunninghake GW. The mast cell and idiopathic pulmonary fibrosis. *Mayo Clin Proc* 1992; 67:1009-1010. [PMID: 1434849]
31. 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. [PMID: 8417939]
32. 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. [PMID: 8449077]
33. 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. [PMID: 8514875]

34. 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. [PMID: 8325081]
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