**Name:** David A. Schwartz

**Office Address:** University of Colorado, Denver
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12631 East 17th Avenue, B178
Aurora, CO 80045
Telephone (303) 724-1783
Fax (303) 724-1799
E-Mail: david.schwartz@ucdenver.edu

**Education and Medical Education:**

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

**Academic Appointments:**

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|---|---|---|
| 1988-2000 | Pulmonary Disease Division<br>Department of Internal Medicine<br>The University of Iowa<br>Iowa City, Iowa | Assistant, Associate, Full Professor<br>Director of Occupational Medicine |
| 1989-2000 | Veterans Administration Medical Center<br>Iowa City, Iowa | Staff Physician |

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|---|---|---|
| 1996-2000 | Department of Internal Medicine<br>The University of Iowa<br>Iowa City, Iowa | Associate Chair for<br>Program Development |
| 1997-2000 | College of Medicine<br>The University of Iowa<br>Iowa City, Iowa | Director, Center for Environmental<br>Lung Disease |
| 2000-2005 | Duke University Medical Center<br>Durham, North Carolina | Professor of Medicine, Genetics, and Environmental Sciences<br>Chief, Division of Pulmonary and Critical Care Medicine<br>Director, Center for Environmental Genomics, Institute for Genome Science and Policy |
| 2000-2005 | Veterans Administration Medical Center<br>Durham, North Carolina | Staff Physician |
| 2001-2005 | Duke University Medical Center<br>Durham, North Carolina | Walter Kempner Professor of Medicine |
| 2003-2005 | Department of Medicine<br>Duke University Medical Center<br>Durham, North Carolina | Vice Chair for Research |
| 2005-2008 | National Institute of Environmental Health Sciences<br>National Toxicology Program<br>National Institutes of Health<br>Research Triangle Park, North Carolina | Director |
| 2008-Present | National Jewish Health<br>Denver, Colorado | Professor of Medicine, Pediatrics, and Immunology<br>Director, Center for Genes, Environment, and Health |
| 2008-Present | University of Colorado Denver<br>School of Medicine<br>Denver, Colorado | Professor of Medicine and Immunology<br>Member, MSTP<br>Member, Colorado Cancer Center<br>Member, Graduate School Faculty<br>Member, Human Medical Genetics and Genomics Program |
| 2011-Present | University of Colorado Denver<br>School of Medicine | Chair, Department of Medicine<br>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:**

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| 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 Respsiratory Society |

**Professional Awards and Special Recognitions:**

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|---|---|
| 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:**

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|---|---|
| 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 |

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| 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

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| 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:**

| Title | Period | Total Direct Funding |
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**Active:**

DoD Focused Program Project: W81XWH-17-1-0597 09/30/17-09/29/21 $7,000,000
Idiopathic Pulmonary Fibrosis, a disease initiated by mucociliary dysfunction
Principal Investigator: Schwartz

NIH-NHLBI: UH2/3-HL123442 09/22/14-06/30/20 $7,868,747
MUC5B, a novel therapeutic target for Idiopathic Pulmonary Fibrosis
Principal Investigator: Schwartz

NIH-NHLBI: P01-HL0928701 01/19/10-04/30/21 $5,000,000
Mechanisms of Familial Pulmonary Fibrosis (Schwartz project)
Gene and Environment Interactions in Pulmonary Fibrosis
Project Director: Schwartz

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: R01-HL149836 7/01/20-06/30/24 $3,130,971
Genes and Transcripts that Interact with MUC5B in Pulmonary Fibrosis
Principal Investigators: Schwartz, Clouthier, Yang

NIH-NHLBI: R38-HL143511 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 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 04/01/20-03/31/26 $6,195,459
Preclinical Pulmonary Fibrosis, an opportune rare disease cohort
Principal Investigator: Schwartz

NIH-NHLBI: R01-HL151401 04/01/20-03/31/24 $3,094,040
Endoplasmic Reticulum Stress in MUC5B-Driven Lung Fibrosis
Principal Investigators: Schwartz

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 09/30/17-09/29/22 $985,586
Genomic Profiling of Early Pulmonary Fibrosis
Principal Investigator: Susan Mathai
Primary Mentor: Schwartz

NIH-NHLBI: R01-HL130140 10/01/15–09/30/19 $1,995,444
Gene and Environment Interactions in Pulmonary Fibrosis
Principal Investigator: Schwartz, Fingerlin
1st percentile: not accepted since duplicative with P01-HL092870 project

NIH-NHLBI: R01-HL101251 07/01/09-06/30/15 $2,559,813
Asthma: An Epidemic Caused by Epigenetics?
Multi-Principal Investigator: Schwartz

NIH-NIEHS: P01-ES18181 09/30/09-09/29/15 $4,997,747
Determinants of Environmental Airway Disease in Children
Principal Investigator: Schwartz
Project 3 Co-Leader: Schwartz

NIH-NIAID: N01-AI90052 09/30/09-9/29/14 $4,000,000
Inner City Asthma Consortium
The Role of Epigenetics in Inner City Asthma
Principal Investigator: Busse
Project Director: Schwartz

NIH-NHLBI: RO1-HL095393 09/24/08-07/31/13 $2,000,000
Genomic Signatures for Idiopathic
Interstitial Pneumonia
Principal Investigator: Schwartz

NIH-NCRR: S10-RR031832 04/01/11-02/14/13 $598,964
Supercomputer Linux Cluster for Genomics
and Proteomics
Principal Investigator: Schwartz

NIH-NHLBI: RC2-HL101715 09/30/09-09/29/12 $12,000,000
Lung Genomics Research Consortium
Multi-Principal Investigator: Schwartz

NIH-NHLBI: RC1-HL099571 09/30/09-09/29/12 $1,000,000
Peripheral Blood Biomarkers for Idiopathic
Interstitial Pneumonia
Multi-Principal Investigator: Schwartz

NIH-NICHD: RC1-HD063508 09/30/09-09/29/12 $1,000,000
Antenatal Dietary Supplementation is a Risk
Factor for Infant Atopy through Epigenetics
Multi-Principal Investigator: Schwartz

NIH-NIEHS: 1-ZO1-ES101945-01 5/23/05-5/22/08 $600,000

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| The Genetic and Biological Determinants of Environmental Airway Disease<br>Principal Investigator: Schwartz | | |
| NIH-NIEHS: 1-Z01-ES101946-01<br>The Genetic Determinants of Innate Immunity and Host Defense<br>Principal Investigator: Schwartz | 5/23/05-5/22/08 | $600,000 |
| NIH-NIEHS: 1-Z01-ES101947<br>The Genetic Determinants of Interstitial Lung Disease<br>Principal Investigator: Schwartz | 5/23/05-5/22/08 | $600,000 |
| NIH-NIEHS: U19. Center for Environmental Genomics<br>Principal Investigator: Schwartz | 9/30/01-9/29/06 | $7,559,614 |
| NIH-NIEHS: P01. PPG The Genetics and Pathogenesis of Environmental Asthma<br>Principal Investigator: Schwartz<br>Project 1: PI Schwartz | 12/1/03-11/30/08 | $7,200,000 |
| NIH-NIAID: R21. Gene Susceptibility to F. Tularensis<br>Co-Investigator: Schwartz | 9/30/04-9/29/08 | $200,000 |
| NIH-NIEHS: P30. EHSRC - Center for Comparative Biology of Vulnerable Populations<br>Principal Investigator: Schwartz | 4/1/04-3/31/08 | $4,004,000 |
| NIH-NIEHS: R01. Biological Determinants of Environmental Airway Injury<br>Principal Investigator: Schwartz | 9/1/95-8/31/06 | $1,500,000 |
| NIH-NIEHS: K23 – TLR4 and Environmental Asthma<br>Principal Investigator: John Sundy<br>Mentor: Schwartz | 9/30/01-9/29/06 | $500,000 |
| NIH-NHLBI: F32 – The Genetics of Environmental Airway Disease<br>Principal Investigator: Jaspal Singh<br>Co-Mentor: Schwartz | 1/31/06-1/30/08 | $112,888 |
| NIH-NHLBI: U01. A Linkage Study in Familial Pulmonary Fibrosis<br>Principal Investigator: Schwartz | 9/29/00-9/28/05 | $3,457,673 |
| VA Merit. Positional Cloning of Novel Genes Involved In Innate Immunity<br>Principal Investigator: Schwartz | 1/1/03-12/31/08 | $733,000 |
| NIH-NHLBI: U01: Mouse Models of Heart, Lung and Blood Disease<br>Principal Investigator: Peters<br>Lung Core: Schwartz | 9/30/00-9/29/08 | $934,003 |
| NIH-NHLBI: Interdisciplinary Training Program | 7/1/04-6/30/09 | $2,237,579 |

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| Grant in Lung Disease (T32)<br>Principal Investigator: Schwartz | | |
| GSK Fellowship Award<br>Innate Immunity and Environmental Airway Disease<br>Principal Investigator: John Hollingsworth<br>Mentor: Schwartz | 7/1/03-6/30/04 | $40,000 |
| VA Merit Review Entry Proposal (MREP)<br>The Role for beta-arrestin-2 in Regulating Lung Inflammatory Disorders<br>Principal Investigator: Julia Walker<br>Mentor: Schwartz | 2/1/04-1/31/07 | $385,178 |
| NIH: K12 Genomic Approach to Innate Immunity To *Aspergillus*<br>Principal Investigator: Aimee Zaas<br>Mentor: Schwartz | 7/1/03-6/30/05 | $130,808 |
| NIH-NHLBI: Microarray Expression Profiling Of Rodent Models of Human Disease<br>Principal Investigator: Quackenbush<br>Lung Core: Schwartz | 9/30/00-9/29/04 | $384,253 |
| NIH-NIEHS: PPG in Environmental Airway Disease<br>Principal Investigator: Schwartz<br>Project 2 PI: Schwartz | 9/1/98-8/31/03 | $5,148,708 |
| VA Merit. Positional Cloning of the Lps Response Gene.<br>Principal Investigator: Schwartz | 9/1/97-8/31/02 | $500,000 |
| NIH-NHLBI: RO1. Host Determinants of Organic Dust-Induced Airway Disease<br>Principal Investigator: Schwartz | 12/1/98-11/30/02 | $758,114 |
| CDC. Persian Gulf Research Project<br>Principal Investigator: Schwartz | 12/1/94-4/30/00 | $3,500,000 |
| NIH-NIEHS: Environmental Health Science Research Center<br>Immunogenetics Facility Director: Schwartz<br>Pulmonary Biology Core Director: Schwartz<br>Co-Principal Investigator: Schwartz | 4/1/96-3/31/01 | $4,500,000 |
| Short-term Training: Students in Health Professional Schools<br>Principal Investigator: Schwartz | 5/1/00-4/30/05 | $842,840 |
| NIH-K08: Neutrophil Recruitment in In LPS-induced Airway Disease<br>Principal Investigator: Klekamp | 7/1/00-6/30/05 | $513,000 |
| NIH-K08: Genetic Determinants of Pulmonary Fibrosis<br>Principal Investigator: Willis | 7/1/00-6/30/05 | $540,000 |

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| Mentor: Schwartz | | |
| NIH-K08: Genetic Susceptibility to Inhaled Lipopolysaccharide<br>Principal Investigator: Cowden<br>Mentor: Schwartz | 7/1/99-6/30/04 | $540,000 |
| NIH-NIEHS: R01. Grain Dust, Endotoxin, and Airflow Obstruction<br>Principal Investigator: Schwartz | 9/01/93-8/31/98 | $715,176 |
| NIH-NHLBI: SCOR for Occupational and Immunologic Lung Disease.<br>Project I: Determinants of the Disease Activity and Prognosis for Interstitial Lung Disease.<br>Principal Investigator: Schwartz | 12/01/91-11/30/96 | $343,288 |
| NIH-NHLBI: SCOR for Occupational and Immunologic Lung Disease.<br>Clinical Core.<br>Principal Investigator: Schwartz | 12/01/91-11/30/96 | $2,410,888 |
| Cystic Fibrosis Pilot Feasibility Study<br>Principal Investigator: Schwartz | 9/1/95-8/31/96 | $40,000 |
| NIH-NIOSH: Agricultural Center. Biomarkers in Grain Dust-Induced Airway Disease.<br>Principal Investigator: Schwartz | 10/01/90-9/30/95 | $506,011 |
| NIH-NIEHS: CIA. The Epidemiology of Vegetable Dust-Induced Airway Disease.<br>Principal Investigator: Schwartz | 4/01/90-3/31/95 | $300,000 |
| VA-Merit. Grain Dust-Induced Airway Disease: A Longitudinal Study.<br>Principal Investigator: Schwartz | 4/01/90-3/31/95 | $357,341 |
| Asbestos Victims Special Fund Trust.<br>A Reliable and Valid Radiographic Approach to Quantify Asbestos-Induced Lung Disease<br>Principal Investigator: Schwartz | 1/01/92-6/30/93 | $140,711 |
| NIH-NIOSH SERCA. Asbestos-Induced Pleural Fibrosis and Lung Restriction.<br>Principal Investigator: Schwartz | 7/01/90-6/30/93 | $150,000 |
| NIH-NIEHS: Environmental Health Sciences Core Center Grant.<br>Director Pulmonary Biology<br>Research Core: Schwartz<br>Principal Investigator: Merchant | 9/29/90-3/31/96 | $342,707 |
| NIH-NHLBI: P50-HL094917<br>Host Defense Mechanisms in Chronic Lung Disease<br>Principal Investigator: Wright | 12/01/06-11/30/11 | $12,374,368 |

Co-Investigator: Schwartz

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| NIH-NIAID: R01-AI068804<br>Host Susceptibility in *Staph aureus* bacteremia<br>Principal Investigator: Fowler<br>Co-Investigator: Schwartz | 10/01/06-9/30/11 | $2,066,365 |
| NIH-NHLBI: K23 – Innate Immunity in Lung Transplantation induced Bronchiolitis Obliterans<br>Principal Investigator: Scott Palmer<br>Mentor: Schwartz | 7/1/02-6/30/07 | $500,000 |
| NIH-NIEHS: K08 – Innate Immune Response to Environmental Endotoxin<br>Principal Investigator: John Hollingsworth<br>Mentor: Schwartz | 2/1/04-1/31/09 | $500,000 |
| NIH-NIAID: K08 – Genetic Determinants of A. Fumigatus Susceptibility<br>Principal Investigator: Aimee Zaas<br>Co-Mentor: Schwartz | 7/15/05-5/31/09 | $471,576 |

**Patents Awarded:**

"Use of nucleic acids containing unmethylated CpG dinucleotide int 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

“Methods for predicting risk of interstitial pneumonia” US Patent No.: US 8,673,565 B2; awarded March 3, 2016

**Patents Pending:**

“Biomarkers for the diagnosis and treatment of fibrotic lung disease”. US Patent application serial no: 62/525,087; submitted 6/26/17

“Compositions for the Treatment of Fibrotic Pulmonary Disease, Methods of Developing and Methods of Use”. US Patent application serial no: 62/525,088; submitted 6/26/17

“Biomarkers For The Diagnosis and Treatment of Fibrotic Lung Disease”. US Patent application serial no: US2018/039573; submitted 6/26/18

**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:**

- 36,232 total citations; H Factor=95; 89 papers with over 100 citations (11/24/2019)
- 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 198desmo6; 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]

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