

## CURRICULUM VITAE

**Date of revision:** August 26, 2021

**Name:** Carrie A. Redlich, M.D., M.P.H.

**Position:** Professor, Department of Medicine

**School:** Yale University School of Medicine

**Education:**

B.A. Williams College, 1978

M.D. Yale University School of Medicine, 1982

M.P.H. Yale University School of Medicine, 1988

### Career/Academic Appointments:

1982-83 Resident, Dept. of Surgery, Yale University School of Medicine, New Haven, CT

1983-86 Resident, Dept. of Medicine, Yale University School of Medicine, New Haven, CT

1986-87 Fellow, Occupational Medicine, Yale University School of Medicine, New Haven, CT

1986-87 Graduate Student, Yale University School of Public Health, New Haven, CT

1987-90 Fellow, Division of Pulmonary and Crit Care Med, and Dept. Envir. Health, Univ. of Washington, Seattle, WA.

1990-96 Assistant Professor of Medicine, Yale University School of Medicine, Occupational and Environmental Medicine (OEM); and Section of Pulmonary and Critical Care Medicine, New Haven, CT

1990-present Staff Physician, Yale-New Haven Hospital, New Haven, CT

1996-2004 Associate Professor of Medicine, Yale University School of Medicine, Yale OEM Program; and Section of Pulmonary and Critical Care Medicine, New Haven, CT

2004-present Professor of Medicine, Yale University School of Medicine, Yale OEM Program; and Section of Pulmonary and Critical Care Medicine, New Haven, CT

2016-present Professor of Epidemiology, Yale University School of Public Health, Department of Environmental Health Sciences, New Haven, CT

### Administrative Positions:

2010-17 Co-Director Occupational Health Services, Norwalk Hospital

2011-present Director, Yale Occupational and Environmental Medicine Program

2013-present Program Director, Yale-YNHH OEM Fellowship / Preventive Medicine Residency

2013-present Director, Clinical Services, Yale OEM Program

### Licensure and Board Certifications:

State of Connecticut, 1984 (#025863)

State of Washington, 1986 (#252-09-0024803)

Drug Enforcement Agency License (#AR3011323);

State CT Controlled Substance License (CSP.18942)

Diplomate, National Board of Medical Examiners, 1984

American Board of Internal Medicine, Internal Medicine, 1986 (#107865)

American Board of Preventive Medicine; Occupational Medicine, 1990 (#22642)

Am Board of Internal Medicine, Pulmonary Subspecialty, 1990(#107865), re-certification, 2002

**Professional Honors & Recognition:**

2021 John Peters Award, American Thoracic Society, EOPH Assembly  
2020 Harriet Hardy Award, NECOEM  
2018-2021 Best Doctors in Connecticut, Pulmonary Medicine and Occupational Medicine, Connecticut Magazine  
2014-15 Drexel University Executive Leadership in Academic Medicine Fellowship  
2014 ConnectiCosh Irving J. Selikoff Award  
2012 NIOSH Alice Hamilton Award Honorable Mention, Education and Guidance  
2007 Michigan Industrial Hygiene Society Best Paper Award  
2001-12 Best Doctors in New York, Pulmonary Medicine: Occupational and Environmental Lung Diseases, New York Magazine  
2000-10 NIH:NIEHS K24 Midcareer Award  
1997-00 ALA Clinical Investigator Award  
1995-99 NIH:NHLBI Clinical Investigator Award  
1993-95 VA Associate Investigator Award  
1992-95 Donaghue Foundation New Investigator Award  
1989-91 American Lung Association, National Research Fellowship Award  
1982 M.D., cum laude Yale University School of Medicine  
1978 B.A., magna cum laude with highest honors, Williams College  
1977 Phi Beta Kappa, Williams College

**Grant History**

**Current Grants**

Agency: CDC/NIOSH

1 T01 OH008607-08

Title: "Training of Occupational and Environmental Medicine Physicians"

PI: Carrie Redlich, M.D., M.P.H.

Project Period: 7/21 - 6/26

Agency: State of Connecticut Occupational Medicine Clinics

OH 40740-12045-21-4220

Title: "State of Connecticut, Occupational Clinics Bill"

PI: Carrie Redlich, M.D., M.P.H.

Project Period: 7/21 - 6/22

Agency: CDC/NIOSH

1R01OH010941-04

Col. Carrie Redlich, M.D., M.P.H. & Adam Wisnewski, Ph.D.

Title: "Deciphering Occupational Asthma Pathogenesis Caused by Isocyanate"

Project Period: 9/16 - 7/20, NCE 7/21

Agency: CDC/NIOSH

75D301-20-R-68024

Title: "Sero-Surveillance of SARS-CoV-2 in Mohegan Tribe Workers"

Col: Carrie Redlich, M.D., M.P.H. & Adam Wisnewski, Ph.D.

Project Period: 2/21-1/22

**Pending Grants**

Agency: CDC/NIOSH  
ROH0109417

Impact Score: 25, 9%

Col. Carrie Redlich, M.D., M.P.H. & Adam Wisnewski, Ph.D.

Title: "Deciphering Occupational Asthma Pathogenesis Caused by Isocyanate"

Project Period: 7/20 - 7/24

Agency: CDC/NIOSH

75D301-20-R-67897

Title: Viral Infection and Immunity in Hospital Workers

Col: Carrie Redlich, M.D., M.P.H. & Krystal Pollitt, Ph.D., P.Eng.

Project Period: 4/22-3/26

Agency: CDC/NIOSH

U2RTW012231

Col. Carrie Redlich, M.D., M.P.H. & Hani Mowafi, M.D., M.P.H.

Title: Global Environmental and Occupational Health Hub for Research Training in the Middle East and North Africa Region (GEOHealth MENA)

Project Period: 03/2022 - 02/2027

**Past Grants**

Agency: Heinz Endowments

Title: "Airborne exposures and health effects related to natural gas compressor stations located in residential communities: community-based participatory research"

PI: Carrie Redlich, M.D., M.P.H.

Project Period: 6/16 - 1/19

Agency: NIH/NIA

R01 AG02629-06 (Stanford University Subaward)

Title: "Disease, Disability, and Death in an Aging Workforce"

PI subcontract: Carrie Redlich, M.D., M.P.H.

Project Period: 7/11 - 6/16

Agency: NIOSH/CDC

1-R01-OH-009939-01A1 (**Co-I**) (Stanford University Subaward)

Title: "Occupational Exposure to PM<sub>2.5</sub> and Cardiovascular Disease"

Col: Carrie Redlich, M.D., M.P.H.

Project Period: 7/11 - 6/15

Agency: SIU Phase II Clinical Trial:

2R42ES018021

Title: "D-Methionine to reduce noise induced hearing loss"

Col: Carrie Redlich, M.D., M.P.H.

Project Period: 3/11 - 2/15

Agency: NIH-NIEHS 1R41ES018021

Title: "Biomonitoring Methylene Diphenyl Diisocyanate (MDI) exposure"

Col: Carrie Redlich, M.D., M.P.H.

Project Period: 5/12 - 7/15

Agency: NIOSH- 1 R21 OH010438-01A1  
Title: "Biochemistry connecting glutathione and isocyanate asthma"  
Col.: Carrie Redlich, M.D., M.P.H.  
Project Period: 10/13-09/15

Agency: CDC/NIOSH R01 OH 009375-02  
Title: "Isocyanate Skin and Air Exposure: Assessment and Control"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 9/09-8/14 (NCE) 2/15

Agency: CPWR OH 009762-02  
Title: Assessment and Prevention of Isocyanate Exposures in the Construction Industry"  
PI: Carrie Redlich, M.D., M.P.H.  
Effort, 0.7 calendar months  
Project Period: 10/09 - 9/14(NCE) 2/15

Agency: AOEC-Case Study in Environmental Medicine (CSEM)  
Title: "Development of Evidence-Based Educational Material on the Health Risks of Indoor and Outdoor Contaminants in the Gulf Coast"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 7/12 - 6/13

Agency: American Chemistry Council Gift:  
Title: "Transferability of aliphatic isocyanates"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 1/10 - 6/13

Agency: Air Force District of Washington  
Title: "Surveillance and Prevention of Isocyanate Exposure during Air Force Applications"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 8/09 - 3/10

Agency: CPWR-NIOSH Pilot Grant  
Title: "Isocyanate Exposures in the Construction Industry"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 3/09 - 2/10

Agency: Donaghue Foundation  
Title: "Reducing Isocyanate Exposure in the CT Auto body Industry"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 7/06 - 6/09

Agency: NIH-NIEHS: K24  
Title: "Program for Patient-Oriented Environmental Health Research and Training"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 12/05 - 11/10

Agency: CDC-NIOSH: R01  
Title: "Health and Socioeconomic Consequences of Nonspecific Building Related Illness"  
PI: Carrie Redlich M.D., M.P.H.  
Project Period: 4/01 - 10/04

Agency: NIH-NIEHS: K24  
Title: "Program for Patient-Oriented Environmental Health Research and Training"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 7/00 - 6/05

Agency: ALA Clinical Investigator Award  
Title: "T Cells in the Pathogenesis of Isocyanate Asthma"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 7/97 - 6/01

Agency: Yale CCC  
Title: "Effect of the CARET Intervention on Serum Carotenoids, Retinoids and Lipoproteins"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 8/96 - 7/97

Agency: NIOSH / NIH-NCI: RO1  
Title: "Biomarkers of Disease and Vitamin A in Asbestos Workers"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 7/95 - 6/97

Agency: NIH-NHLBI: KO8  
Title: "Vitamin A Modulation of Environmental Lung Injury"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 12/94 - 7/00

Agency: VA Associate Investigator Award  
Title: "Characterization and Modulation of Radiation- Induced Lung Injury"  
PI: Carrie Redlich, M.D.,M.P.H.  
Project Period: 10/93 - 9/95

Agency: Yale School of Medicine Dean's Young Faculty Award  
Title: "Vitamin A Modulation of Environmental Lung Injury"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 7/93 - 6/94

Agency: Donaghue Medical Foundation  
Title: "Characterization and Modulation of Radiation-Induced Lung Injury"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 9/92 - 8/95

Agency: NIH-NIEHS  
Title: "New serodiagnostics for isocyanate exposure: A Major Cause of Occupational Asthma"  
Col: Carrie Redlich, M.D., M.P.H.  
Project Period: 4/09 - 3/11

Agency: CDC-NIOSH R01  
Title: "Longitudinal Studies of Isocyanate Asthma in Autobody Shops"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 9/02 - 8/07

Agency: NIH-NHLBI: R01  
Title: "Isocyanate Antigens and T-cells that Cause Asthma"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 5/02 - 4/06

Agency: NIH-NHLBI: R01  
Title: "Human Lung  $\gamma/\delta$  T Cell Populations in the Human Lung"  
PI: Carrie Redlich, M.D., M.P.H.  
Project Period: 9/01 - 8/05

Agency: NIH-NCI  
Title: Fred Hutchinson, "CARET"  
Col: Carrie Redlich, M.D., M.P.H.  
Project Period: 6/99 - 5/00

### **Invited Speaking Engagements, Presentations Not Affiliated With Yale:**

#### **Professional Service**

##### ***Peer Review Groups, Study Sections, Advisory Boards (member):***

2020-present Boehringer Ingelheim Coal Workers Pneumoconiosis Advisory Board  
2020-2021 State of CT, COVID-19 ReOpen Rules Committee  
2018-present Food and Drug Administration (FDA), Pulmonary and Allergy Advisory Committee  
& 2011-2015  
2016-2020 U.S. Department of Labor Advisory Board on Toxic Substances and Worker Health,  
Chair Part B Lung subcommittee  
2016-2020 American Cancer Society, Peer Review Committee, Physician Training in Cancer  
Prevention Programs  
2015-present Department of Veterans Affairs, Office of Research and Development, Executive  
Committee, Cooperative Studies Program #595: Pulmonary Health and Deployment  
to Southwest Asia and Afghanistan  
2015-19 ATS-ERS Taskforce on the Occupational Burden Lung Disease, Co-Chair  
2014-16 NIOSH - ATS Work Asthma Domain Expert Committee (WADE) to develop a Clinical  
tool for implementation in electronic medical records  
2013-14 NIOSH / US Dept of Justice: James Zadroga 9/11 Health and Compensation Act,  
Occupational Health Consultant, Victims Compensation Fund  
2013 Institute of Medicine, National Academy Sciences, Government Accountability Office  
Workshop on the World Trade Center Health Program List of Covered Conditions  
2011-12 U.S. EPA, Science Advisory Board (SAB), Panel for the review of EPA's  
Toxicological Review of Libby Amphibole Asbestos  
2012 NIOSH: External Review of Division of Respiratory Disease Studies, FSB  
2013 NIOSH: Cooperative Research Agreements Related to the World Trade Center  
Health Program (U01) peer review panel  
2011-13 Firmenich Co, Consulting Medical Experts Group, Consultant,  
2010 NIOSH: External Review of TMBB/HELD Program: Chronic Inflammatory and  
Immune Diseases  
2009-11 American Thoracic Society: Impairment and Disability: An ATS expert panel, Panel  
member  
2007-10 NIH – NIEHS: Environmental Health Sciences Review Committee  
2006-08 National Research Council, National Academy Sciences: Beryllium Alloy Exposures,  
Committee Member, Co-Author

- 2005-12 American Chemistry Council Diisocyanate Panel - NIOSH Research Collaboration Program: Medical Surveillance Task Group, Consultant
- 2005-08 American College of Chest Physicians: Diagnosis and Management of Work related Asthma: An ACCP Evidence-based Clinical Practice Guideline, Panel member, co-author
- 2006-07 American Medical Association: Guides to Evaluation of Impairment and Disability, 5th edition, consultant, 2000-2001; 6<sup>th</sup> edition, Consultant
- 2001-03 Institute of Medicine, National Academy Sciences: Gulf War and Health Committee Member
- 1999 NIH-NHLBI: Special Emphasis Panel Review: Retinoid Treatment in Emphysema
- 1997-02 CDC-NIOSH NORA: Cancer Research Methods Team, Member
- 1996-present Chubb Group of Insurance Companies: Consultant, teaching on health risks of new biomedical products, (through YOEMP)
- 1996 -00 CDC - NIOSH: Occupational Health and Safety Study Section, Member
- 1996, 01 NIH - GCRC: Special Emphasis Panel Review Committees,
- 1995-05 NIH - GCRC: Grant reviewer General Clinical Research Centers
- 1995-00 ATSDR: Dept of Health and Human Services, Peer Review Grant Process
- 1994 Institute of Medicine, National Academy Sciences, Committee to Advise National Library of Medicine, Toxicology and Environmental Health Information Program
- 1993 NIH - NCI / NHLBI: Working Group on Pulmonary Complications Related to Breast Cancer Therapy
- 1993 NIH - NCI / NIEHS: Review Committee for RFA "Biotechnology Transfer to Epidemiologic Studies: Molecular / Biochemical Epidemiology
- 1992 CDC - NIOSH: Special Training Grant Review Committee, adhoc,(1996,1999,2004)

**Journal Service:**

**Reviewer**

American Journal of Industrial Medicine  
American Journal of Respiratory and Critical Care Medicine, Annals ATS  
Chest  
Journal of Allergy and Clinical Immunology  
Journal of Occupational and Environmental Medicine  
Lancet  
European Respiratory Journal  
Others

**Professional Service for Professional Organizations:**

***American Thoracic Society (ATS)***

2019- present ATS Awards Committee  
2016- 2020 ATS Environmental Health Policy Committee  
2013-15 ATS Board of Directors,  
2013-15 ATS Board of Directors Document Review Committee

***ATS: Environmental, Occupational and Population Health (EOPH) Assembly***

2018-present Member, Program Planning Committee  
2013-15 Chair, EOPH Assembly  
2015-16 Chair, Nominating Committee  
2012-16 Member, Executive Committee  
2005-07 Chair, Planning Committee  
2002-07 Member, Nominating Committee  
2006-07 Member, Environmental Health Policy Committee  
1995-99 Member, Program Planning Committee  
1998-99 Chair, Program Planning Committee

1998-11 Member, Planning Committee

***Association of Occupational and Environmental Medicine Clinics (AOEC)***

2018-present Member, Board of Directors  
2011-14 Member, Board of Directors

**Yale University Service:**

***University Committees***

2014-present Provost's Safety Committee Yale University  
2012-15 Yale University School of Public Health, Provost's Standing Advisory and Appointments Committee  
2012-14 Working Group on Personal Protective Equipment  
2009-16 Yale School of Forestry and Environmental Studies, Provost's Standing Advisory and Appointments Committee  
2003-06 Advisory Committee on Environmental Management (ACEM), Review of Green Fund Proposals

***Medical School Committees***

2015-present Committee on the Status of Women in Medicine  
2014-15 Adhoc Task Force on Gender Equity  
2011-14 Senior Faculty Allotment Committee  
2010-11 Inquiry Committee, Allegation of Academic Fraud  
2005-08 Brown-Coxe Funds and Fellowships Committee

***Department of Medicine Committees***

2019-present Search Committee, Endocrine Chief  
2015-present Appointments and Promotions Committee  
1999-12 Intern Selection Committee  
1994-95 Appointments and Promotions Committee

**Public Service:**

2009-present NHP (Neighborhood Health Project) – Clinic attending  
1996-05 Eli Whitney Museum, Member, Board of Directors  
1992-02 New Haven Youth Soccer Association, Member, Board of Directors, coach, girls' coordinator, coaching development

**Societies:**

Fellow, American College of Chest Physicians  
Fellow, American College of Occupational and Environmental Medicine  
Member, American Thoracic Society  
Member, Association of Occupational and Environmental Clinics

**Teaching, full courses:**

2013 - Present Course Director / Instructor, Yale School of Public Health,  
EHS 575a Introduction to Occupational and Environmental Medicine

Lectures on Occupational and Environmental Health topics in several other courses yearly, and to various residents and fellows

## BIBLIOGRAPY:

### Peer-reviewed Original Research / Scholarship

1. Skovby F, Kraus J, **Redlich CA**, Rosenberg LE. Immunochemical studies on cultured fibroblasts from patients with homocystinuria due to cystathionine beta-synthase deficiency. *Am J Hum Genet* 1982; 34: 73-83.
2. **Redlich CA**, Sparer J, Cowan D, Beckett W, Miller H, Cherniack M, Cullen M. Outbreak of Occupational Hepatitis--Connecticut. *Morbidity and Mortality Weekly Report. CDC* 1987; 36:101-102.
3. **Redlich CA**, Beckett WS, Sparer J, Cowan D, Miller H, Cullen MR. Liver disease associated with occupational exposure to the solvent dimethylformamide. *Ann Int Med* 1988; 108:680-86.
4. **Redlich CA**, West AB, Fleming L, True LD, Cullen MR, Riely CA. Clinical and pathologic characteristics associated with occupational exposure to dimethylformamide. *Gastroenterology* 1990; 99:748-57.
5. Omiecinski CJ, **Redlich CA**, Costa P. Induction and developmental expression of cytochrome P450IA1 mRNA in rat and human tissues: Detection by the polymerase chain reaction. *Cancer Res* 1990; 50:4315-21.
6. Fleming LE, Shalat SL, **Redlich CA**. Liver injury in workers exposed to dimethylformamide. *Scand J Work Envir Health* 1990; 16:289-92.
7. Checkoway H, **Redlich CA**. Toxic exposures in the workplace: Early monitoring may prevent occupational disease. *Wash Pub Health* 1990; 8:29-30.
8. Cullen MR, Pace PE, **Redlich CA**. The experience of the Yale Occupational and Environmental Medicine Clinics with multiple chemical sensitivities, 1986-91. *Toxicol Ind Health* 1992; 8(4):15-19.
9. Cullen MR, Solomon L, Pace PE, Buckley P, Duffy T, McPhedron P, Kelsey KT, **Redlich CA**. Morphologic, biochemical and cytogenetic studies of bone marrow and circulating blood cells in painters exposed to ethylene glycol ethers. *Environ Res* 1992; 59:250-64.
10. Schwartz DA, **Redlich CA**. Biomarkers in occupational lung disease. *Semin Resp Med* 1993; 14:167-180.
11. **Redlich CA**, Delisser H, Elias JA. Retinoic acid inhibition of TGF- $\beta$ -induced collagen production by human lung fibroblasts. *Am J Respir Cell Mol Biol* 1995;12:287-95.
12. **Redlich CA**, Blaner W, Carter D, Wirth J, Tanoue L, Cullen MR. Vitamin A chemoprevention of lung cancer: A short-term biomarker study. *Adv in Exper Med Biol*, 1995;375:287-95.
13. Brodtkin CA, Daniell W, Checkoway H, Echeverria D, Johnson, J, Wang K, Sohahae R, Green D, **Redlich CA**, Gretch D, Rosenstock L. Hepatic ultrasonic changes in workers exposed to perchloroethylene. *Occup Environ Med* 1995; 52:679-85.
14. Cullen MR, **Redlich CA**, Beckett WS, Weltermann B, Sparer J, Jackson G, Ruff T, Rubinstein E, Holden W. Feasibility study of respiratory questionnaire and peak flow recordings in autobody shop workers exposed to isocyanate containing spray paint. *Occup Med* 1996; 46:197-04.
15. Cullen MR, **Redlich CA**. Significance of individual sensitivity to chemicals: elucidation of host susceptibility by use of biomarkers in environmental health research. *Clin Chem* 1995; 41:1809-13.

16. **Redlich CA**, Homer R, Smith B, Wirth J, Sparer J, Cullen M. Immunologic responses to isocyanates in sensitized asthmatic subjects. *Chest* 1996; 109:6s-8s.
17. **Redlich CA**, Grauer JN, Van Bennekum AM, Clever SL, Ponn RB, and Blaner WS. Characterization of carotenoid, vitamin A, and  $\alpha$ -tocopherol levels in human lung tissue and pulmonary macrophages. *Am J Resp Crit Care Med* 1996; 154:1436-43.
18. **Redlich CA**, Rockwell S, Gao X, Kelley M, Elias JA. IL-11 enhances survival and decreases TNF production after radiation-induced thoracic injury. *J Immunol* 1996; 157:1705-10.
19. **Redlich CA**, Sparer J, Cullen MR. Sick building syndrome. *The Lancet* 1997; 349:1013-16.
20. **Redlich CA**, Karol MH, Graham C, Homer RJ, Holm CT, Wirth JA, Cullen MR. Demonstration of airway isocyanate-adducts in human HDI-induced asthma. *Scand J Work Envir Health* 1997; 23:227-31.
21. **Redlich CA**, Blaner WS, Van Bennekum AM, Chung JS, Clever SL, Cullen MR. The effect of supplementation with beta-carotene and vitamin A on lung nutrient levels. *Cancer Epidemiol Biomarkers Prev* 1998;7:211-14.
22. Mayne ST, **Redlich CA**, Cullen MR. Dietary vitamin A intake and prevalence of bronchial metaplasia in asbestos-exposed workers. *Am J Clin Nutr* 1998; 68:630-35.
23. **Redlich CA**, Anwar MS. Occupational asthma: keys to diagnosis and management. *J Respir Dis* 1998;19: 508-19.
24. **Redlich CA**, Rockwell S, Chung JS, Sikora A, Kelley M, Mayne ST. Vitamin A inhibits radiation-induced pneumonitis in rats. *J Nutr* 1998; 128: 1661-64.
25. **Redlich CA**, Chung JS, Cullen MR, Blaner WS, Van Bennekum AM, Berglund L. Effect of long-term beta-carotene and vitamin A on serum cholesterol and triglyceride levels among participants in the Carotene and Retinol Efficacy Trial (CARET). *Atherosclerosis* 1999; 143:427-34.
26. Wisnewski AV, Lemus R, Karol MH, **Redlich CA**. Isocyanate-conjugated lung epithelial cell proteins: A link between exposure and asthma?" *J Allergy Clin Immunol* 1999; 104:341-47.
27. **Redlich CA**, Cain H, Wisnewski AV. The immunology and prevention of isocyanate asthma: a model for low molecular weight asthma. *Sem Resp Crit Care Med* 1999;20:591-99.
28. Liu Y, Sparer J, Woskie S, Cullen MR, Chung JS, Holm C, **Redlich CA**. Qualitative assessment of isocyanate skin exposure in autobody shops. *Am J Ind Med* 2000;37:265-74.
29. Wisnewski AV, Srivastava R, Herrick C, Xu L, Lemus R, Cain H, Magoski N, Karol MK, Bottomly K, **Redlich CA**. Identification of human lung and skin proteins conjugated with diisocyanate in vitro and in vivo. *Am J Resp Crit Care Med* 2000;162:2330-36.
30. Brodtkin CA, Moon JD, Camp J, Echeverria D, **Redlich CA**, Willson RA, Checkoway H. Serum hepatic biochemical activity in two populations of styrene-exposed workers. *Occup Environ Med* 2001;58:95-102.
31. Wisnewski AV, Cain H, **Redlich CA**. Human gamma / delta T-cell lines derived from airway biopsies. *Am J Respir Cell Mol Biol* 2001;24:332-38.
32. **Redlich CA**, Stowe MH, Wisnewski AW, Eisen EA, Karol MK, Lemus R, Holm CT, Chung JS, Sparer J, Liu YC, Woskie S, Appiah-Pippim J, Gore R, Cullen MR. Subclinical Immunologic and physiologic responses in hexamethylene diisocyanate-exposed auto body shop workers. *Am J Ind Med* 2001; 39:587-97.

33. Lemus R, Lukinskeine L, Bier ME, Wisnewski AV, **Redlich CA**, Karol MH. Development of immunoassays for biomonitoring of hexamethylene diisocyanate exposure. *Environ Health Perspect* 2001; 109: 1103-8.
34. Herrick CA, Xu L, Wisnewski AV, Das J, **Redlich CA** and Bottomly K. A novel mouse model of isocyanate asthma showing allergic-type inflammation in the lung after inhaled antigen challenge. *J Allergy Clin Immunol* 2002; 109: 873-78.
35. Wisnewski AV, Liu Q, Miller J-J, Magoski N and **Redlich CA**. Effects of diisocyanate exposure on human airway epithelial cells: In vitro cellular and molecular studies. *Environ Health Perspect* 2002; 110: 901-7.
36. **Redlich CA** and Karol MH. Diisocyanate Asthma: Clinical Aspects and Immunopathogenesis. *Int Immunopharmacol* 2002; 2; 213-24.
37. **Redlich CA**, Stowe MH, Coren BA, Wisnewski AV, Holm CT, Cullen MR. Diisocyanate-exposed auto body shop workers: A one-year follow-up. *Am J Ind Med* 2002; 42:511-18.
38. Agalliu I, Eisen EA, Hauser R, **Redlich CA**, Stowe M, Cullen MR, Wegman DH, Christiani DC, Kennedy. Truncating the dose range for methacholine challenge tests: Three occupational studies. *J Occup Environ Med* 2003;45:841-47.
39. Pisani MA, Inouye SK, McNicoll L, **Redlich CA**. Screening for pre-existing cognitive impairment in older intensive care unit patients. *J Am Geriatr Soc* 2003; 51:689-93.
40. Pisani MA, Inouye SK, McNicoll L, Ely EW, **Redlich CA**. Under-recognition of preexisting cognitive impairment by physicians in older ICU. *Chest* 2003; 124:2267-74.
41. Herrick, CA, Das J, Xu L, Wisnewski, AV, **Redlich CA**, Bottomly K. Differential roles for CD4 and CD8 T cells after diisocyanate sensitization: genetic control of TH2-induced lung inflammation. *J Allergy Clin Immunol* 2003; 111:1087-94.
42. Wisnewski AV, Herrick CA, Liu Q, Bottomly K, **Redlich CA**. Human g/d $\square$ T cell proliferation and IFN-g production induced by hexamethylene diisocyanate. *J Allergy Clin Immunol* 2003; 112:538-46.
43. Wisnewski, AV, Cartier A, Stowe MH. Liu Q, Liu J, **Redlich CA**. Isocyanate vapor-induced antigenicity of human albumin, *J Allergy Clin Immunol* 2004; 113:1178-84.
44. Bello D, Woskie SR, Streicher RP, Liu Y, Stowe MH, Eisen EA, Ellenbecker MJ, Sparer J, Youngs F, Cullen MR, **Redlich CA**. Polyisocyanates in occupational environments: a critical review of exposures limits and metrics. *Am J Ind Med* 2004;46:480-91.
45. Liu Y, Berode M, Stowe MH, Cullen MR, Holm CT, Walsh FX, Sparer JA, Slade MD, Boeniger MF, **Redlich CA**. Urinary hexane diamine to assess respiratory exposure to hexamethylene diisocyanate aerosol: a chamber study. *Int J Occup Environ Health* 2004; 10:262-71.
46. Woskie SR, Sparer J, Gore R, Stowe M, Bello D, Liu Y, Youngs F, **Redlich CA**, Eisen E, Cullen M. Determinants of isocyanate exposures in auto body repair and refinishing Shops. *Ann Occup Hyg* 2004; 48:393-03.
47. Sparer J, Stowe M, Bellow D, Liu Y, Gore R, Youngs F, Cullen MR, **Redlich CA**, Woskie SR. Isocyanate exposures in auto body shop work: the SPRAY study. *J Occup Environ Hyg* 2004; 1:570-81.
48. Aliyu OA, Cullen MR, Barnett MJ, Balmes JR, Cartmel B, **Redlich CA**, Brodtkin CA, Barnhart S, Rosenstock L, Israel L, Goodman GE, Thornquist MD, Omenn GS. Evidence for excess colorectal

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