

**NAME:** HOWARD MATTHEW KIPEN

Professor, Department of Environmental and Occupational Health and Justice  
Chief, Clinical Research and Occupational Medicine Division  
Environmental and Occupational Health Sciences Institute (EOHSI)  
Rutgers School of Public Health  
Rutgers, The State University of New Jersey

**ADDRESS:** Rutgers Environmental and Occupational Health Sciences Institute  
170 Frelinghuysen Road  
Piscataway, NJ 08854

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**EDUCATION:**

University of California Berkeley  
B.A. 1976

University of California San Francisco (UCSF), CA  
School of Medicine  
M.D. 1979

Columbia University School of Public Health, New York, NY  
MPH 1983

**POSTGRADUATE TRAINING:**

Internship, Columbia University Presbyterian Hospital, N.Y.  
Medical Service, 1979-1980

Junior and Senior Assistant Resident, Columbia University Presbyterian Hospital, N.Y.  
Medical Service, 1980-1982

Resident, Environmental Sciences Laboratory,  
Mount Sinai Medical Center, New York  
Occupational and Community Medicine, 1983-1984

**ACADEMIC APPOINTMENTS:**

College of Physicians and Surgeons  
Columbia University, New York  
Visiting Clinical Fellow, 1979-1982

College of Physicians and Surgeons,  
Columbia University, New York  
Assistant in Medicine, 1982-1983

Department of Environmental and Occupational Medicine  
UMDNJ-Robert Wood Johnson Medical School  
Assistant Professor, 1984-1991

Occupational and Environmental Health, Graduate Program in Public Health  
UMDNJ-Robert Wood Johnson Medical School/Rutgers University  
Track Director, 1985-1992

Department of Medicine  
UMDNJ-Robert Wood Johnson Medical School  
Assistant Professor (joint), 1985-1991

Environmental and Occupational Health Sciences Institute (EOHSI)  
Rutgers University  
Member, 1987-present

Joint Graduate Program in Toxicology, Rutgers University/  
Rutgers Robert Wood Johnson Medical School (formerly UMDNJ)  
Member, 1988-present

Graduate Program in Environmental Science  
Rutgers, The State University of New Jersey  
Associate Member, 1989-present

Graduate Faculty, Rutgers, The State University of New Jersey  
Associate Member, 1985-present

Department of Environmental and Occupational Medicine  
UMDNJ-Robert Wood Johnson Medical School  
Associate Professor,  
1991-1999

Department of Medicine  
UMDNJ-Robert Wood Johnson Medical School  
Associate Professor (joint), 1991-2010

Clinical Research and Occupational Medicine Division  
Department of Environmental and Occupational Medicine  
UMDNJ-Robert Wood Johnson Medical School Chief, 1994- present

Clinical Research and Occupational Medicine Division  
Environmental and Occupational Health Sciences Institute  
Director, 1994- present

Department of Family Medicine  
Rutgers Robert Wood Johnson Medical School (formerly UMDNJ)  
Associate Professor (joint), 1995-present

The Cancer Institute of New Jersey  
Rutgers Robert Wood Johnson Medical School (formerly UMDNJ)  
Member, 1998-present

Department of Environmental and Occupational Medicine  
UMDNJ-Robert Wood Johnson Medical School  
Professor (with tenure), 1999-present

**LICENSURE:**

New Jersey Medical License 25MA04519900

**DRUG LICENSURE:**

CDS: New Jersey D04073600

DEA: New Jersey AK9806831

**CERTIFICATIONS:**

Diplomate, National Board of Medical Examiners/ 1980

Diplomate, American Board of Internal Medicine / 1982

Diplomate, American Board of Preventive Medicine (Occupational) / 1986

"B reader," National Institute for Occupational Safety and Health

**PROFESSIONAL ACTIVITIES:**

American College of Physicians, Member

American Public Health Association, Member

American College of Occupational & Environmental Medicine (ACOEM)  
Fellow

Occupational & Environmental Medicine Association of New Jersey  
(OEMANJ), Program Chairman, 1991

Occupational and Environmental Medicine Association of New Jersey  
President, 1994

American College of Preventive Medicine, Fellow

International Society for Environmental Epidemiology, Charter Member

New Jersey Medical Society, Member

American College of Chest Physicians Fellow

American Thoracic Society, Member

New Jersey Thoracic Society - Member, Research Grant Committee  
Member, 1988-1994

New Jersey Academy of Medicine, Fellow

**HONORS AND AWARDS:**

Student Research Fellowship,  
California Heart Association  
Institute of Environmental Stress, UC Santa Barbara, 1974

Phi Beta Kappa, 1974

Research Training Fellowship, Department of Physiology, UCSF, 1976

Alpha Omega Alpha, 1978

Teaching and Service Incentive Award  
UMDNJ-Robert Wood Johnson Medical School, 1989

Environmental and Occupational Medicine Academic Award (K07)  
National Institute of Environmental Health Sciences, 1992-1997

Adolph G. Kammer Merit in Authorship Award  
American College of Occupational and Environmental Medicine, 1992

Sixth Annual Alice Hamilton Lecturer  
Department of Medicine, University of California, San Francisco, CA, 1998

Top Doctors in New Jersey  
Occupational Medicine, 2003-present

Top Doctors in America, 2009-2010

PhD Opponent. Department of Public Health and Clinical Medicine.  
University of Umea. Umea, Sweden, October 6, 2011

Visiting Professor, University of Science and Technology, Beijing.  
Department of Environmental Engineering. Beijing, China.  
January 21-28, 2019

## **SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS AND COMMITTEES:**

### **A. International Committees**

Member, Steering Committee for the International Congress on Hazardous Waste:  
Impact on Human and Ecological Health. Agency for Toxic Substances and  
Disease Registry, Atlanta, GA. June 5-8, 1995

Chair, Workshop on Multiple Chemical Sensitivities (MCS)  
World Health Organization International Program on Chemical Safety,  
Berlin, Germany, February 21-23, 1996

Member, International Advisory Committee, International Congress on  
Environmental Health, International Society of Environmental Medicine,  
Hanover Medical School, Germany, Oct. 1-4, 2000

Invited Participant, 2nd Jack Pepys Occupational Asthma Workshop  
Toronto, Canada May 21-22, 2004

Biomonitoring Track Chair, International Society for Environmental Epidemiology  
Annual Meeting, Seattle Washington, 2014

Oral Contributed Papers Session Chair, Biomarkers of Air Pollution Exposure and Effects,  
International Society for Environmental Epidemiology, Seattle, Washington, August 25, 2014

Delegate, Meeting of Consultation of Foreign Experts, State Administration  
of Foreign Experts, Affairs and Research Office of the State Council,  
People's Republic of China Beijing, China, January 12, 2015

Speaker and Participant, U.S. State Department Workshops on Combating Air Pollution in Northern India. Northern India May 29-June 3, 2016.

Advisory Committee Member, International Excellent Innovative Talents Training Program, Chongqing University, Chongqing, China, November 7, 2017

Expert Consultant, Risk communication and intervention to reduce exposure and to minimize the health effects of air pollution, World Health Organization (WHO), Geneva, Switzerland, February 12-14, 2019

## **B. National Committees**

Member, Peer Review Panel, CDC Project on Adverse Reproductive Outcomes in New Jersey, 1989-1993

Chairman, Case Evaluation Group, Workshop to Develop Research Protocols for Multiple Chemical Hypersensitivity Syndrome. National Research Council. Irvine, California, March 20-21, 1991

Accreditation Site Visitor, Council on Education for Public Health, 1990

Member, Peer Review Panel for Case Studies in Environmental Medicine, ATSDR, 1991-1993

Chair, Workshop to Assist in Developing a Standardized Immune Test Battery for Use in Environmental Health Studies. ATSDR, Atlanta, GA. June 22-23, 1992

Member, Environmental Medicine Committee, American College of Occupational and Environmental Medicine, 1992-present

Member, Environmental and Occupational Medicine Academic Award Review Committee, 1992, 1993

National Board of Directors, Association of Occupational and Environmental Clinics, 1992-1995

Member, Persian Gulf Expert Scientific Committee. Department of Veterans Affairs, Washington, DC., 1993-1997

Member, Committee on Curriculum Development in Environmental Medicine, Institute of Medicine, Washington, DC., 1993-1995

Chairperson, Special Review Committee for Environmental/Occupational Medicine Academic Awards. NIEHS, Research Triangle Park, NC. November 16, 1994

Member, Panel on Evaluating Individuals Reporting Sensitivities to Multiple Chemicals. CA Department of Health Services, Berkeley, CA., 1994-1995

Member, Oversight Subcommittee on "A National Health Survey of Persian Gulf War Veterans." Department of Veterans Affairs, Washington, DC., 1994-1996

Member, Scientific Advisory Committee to Oversee Research on Chemically Related Illness. Department of Labor and Industries, State of Washington, 1995-1996

Member, Committee on the DoD Persian Gulf Syndrome Comprehensive Clinical Evaluation Program. Institute of Medicine, Washington, DC, 1995-1997

Chair, Committee on Increasing Health Professionals' Use of Toxicology and Environmental Health Databases. Institute of Medicine, Washington, DC., 1995-1997

Chairperson, Special Review Committee for Environmental/Occupational Medicine Academic Awards. NIEHS, Research Triangle Park, NC, November 12, 1997

Member, Gulf War Expert Scientific Advisory Committee. Department of Veterans' Affairs, Washington, DC., 1997-1998

Chair, Committee on Toxicology and Environmental Health Information Resources for Health Professionals, Institute of Medicine. Washington, DC., 1998-1999

Chair, Committee on Internet Access to the National Library of Medicine's Toxicology and Environmental Health Databases. Institute of Medicine, Washington, DC, 1998-1999

Group Chair, Susceptible Subpopulations Panel Committee, George Washington University, Washington, DC, April 19-20, 1999

Panel Member on "Susceptibility in Microbial Risk Assessment," The George Washington University, Washington, DC, 1999-2003

Member, The National Academies of Science, Subcommittee on Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants (Primary author on CO<sub>2</sub> and Benzene chapters), 2003-2007

Chair, Environmental Medicine Committee, American College of Occupational and Environmental Medicine, 2003

NIOSH Grant Review Panel Member, "Disease, Disability and Injury Prevention and Control and Special Emphasis Panel", State-based Occupational Safety and Health Surveillance, November 30 – December 3, 2004

Chairman, NIEHS K23 Mentored Patient-Oriented Research Career Development Award Review Committee, 2004, 2006

Reviewer, Institute of Medicine, Gulf War and Health: Review of the Medical Literature Relative to Gulf War Veterans Health, 2006

Peer Reviewer, American Institute of Biological Sciences/United States Army Medical Research Material Command, Gulf War Veteran's Illness Research Program, March 13-14, 2007

Review Committee Member, National Institute of Health, National Institute of Environmental Health Sciences, Special Emphasis Panel, Patient-Oriented Career Development Award (K23), April 12, 2007

Chair, Clinical Trials Award Committee, Gulf War Illness Research Program,

Department of Defense, Congressionally Directed Medical Research Programs, Reston, VA, December 3-5, 2008

Chair, NASA Human Research Program's Advanced Environmental Health/  
Advanced Food Technology Standing Review Panel, 2009-present

Member, External Advisory Panel, Center for Environmental Medicine and Lung Biology  
University of North Carolina, September 8-10, 2009

Member, Work-related asthma subcommittee, Occupational Medicine Practice  
Guidelines, American College of Occupational and Environmental Medicine, 2009-2014

Chair, Clinical Trials Award Committee, Gulf War Illness Research Program  
Congressionally Directed Medical Research Programs, 2011

Chair, Clinical Trials Award Committee, Gulf War Illness Research Program,  
Congressionally Directed Medical Research Programs, 2012

Member, Scientific Advisory Committee, Pacific Northwest Agricultural Safety and  
Health Center, University of Washington School of Public Health, 2012-present

Expert, Global Burden of Disease, Institute for Health Metrics and Evaluation,  
University of Washington, 2013

Adjunct Member, Lung and Airway Disease Affinity Group, Center of Excellence in  
Environmental Toxicology (CEET), University of Pennsylvania, 2014-

Member, Planning Committee, Assembly on Occupational and Environmental Health,  
American Thoracic Society, 2011-2014

Member, Committee on Developing a Case Definition for Complex Multisystem  
Illness in Veterans of the 1990-1991 Gulf War, Institute of Medicine, 2013-2014

Co-Chair, American Thoracic Society Ad Hoc Committee on What Constitutes an  
Adverse Health Effect of Air Pollution: Update 3, 2015

Member, Committee on Gulf War and Health, Volume 10: Update of Health Effects of Serving  
in the Gulf War. Institute of Medicine, National Academy of Sciences. Washington, DC.  
December 2014-2016

Member, Planning Committee, Workshop on the Health Risks of Indoor Exposure to  
Particulate Matter National Academy of Sciences, Engineering, and Medicine, Washington,  
DC, 2015

Report Reviewer, Institute of Medicine (IOM), Draft on Assessing Health Outcomes Among  
Veterans of Project SHAD (Shipboard and Hazard Defense), 2015

Member, NASA Human Research Program's Dust Risk Standing Review Panel, 2015-present

Member, Environmental Health Policy Committee, American Thoracic Society, 2016-2020

Member, National Academies Standing Committee on Medical and Epidemiological Aspects of Air Pollution on U.S. Government Employees and their Families, 2016- 2021

Chair, Assembly on Environmental, Occupational, and Population Health, American Thoracic Society, May, 2017-May, 2019

Member, Board of Directors, American Thoracic Society, May 2017-May, 2019

Member, NIEHS Special Emphasis Panel for review of US-India Collaborative R01's. March, 2021

External Scientific Reviewer, EPA Controlled Human Exposure Study on Ozone, June 5, 2024

### **C. Medical School / University Committees**

Grant Review Committee, UMDNJ-Robert Wood Johnson Medical School, 1988-1994

Committee on Clinical Prevention, Rutgers Robert Wood Johnson Medical School (formerly UMDNJ), 1988-present

Postdoctoral Curriculum Committee, UMDNJ-Robert Wood Johnson Medical School, 1991-1993

Chair, Curriculum Committee, Department of Environmental and Occupational Medicine 1992-1998

Committee to Review the Chair of Pediatrics, UMDNJ-Robert Wood Johnson Medical School 1995-1996

Committee to Review Chairman of Radiology, UMDNJ-Robert Wood Johnson Medical School, 1998-1999

Committee on Appointments and Promotions, UMDNJ-Robert Wood Johnson Medical School, 2000-2001

Organizer and Conference Chair, Environmental Factors in Medically Unexplained Physical Symptoms and Related Syndromes EOHSI, Piscataway, NJ, 2001

Search Committee for Chair of Family Medicine, UMDNJ-Robert Wood Johnson Medical School, 2005-2006

Member, Population Science Steering Committee, Rutgers Robert Wood Johnson Medical School (formerly UMDNJ), 2007

Member, CRC Advisory Committee, Rutgers, Robert Wood Johnson Medical School, Nov 2017-present

### **D. Editorial Boards:**

Associate Editor, American Journal of Industrial Medicine, 1984- Board member, Journal of Building Engineering, 2014-present



Reviewer, Annals of Occupational Hygiene  
Reviewer, Epidemiology  
Reviewer, American Journal of Epidemiology  
Reviewer, Environmental Health Perspectives  
Reviewer, American Journal of Public Health  
Reviewer, European Respiratory Journal  
Reviewer, American Journal of Physiology: Lung Cellular & Molecular Physiology  
Reviewer, Inhalation Toxicology  
Reviewer, American Journal of Respiratory and Critical Care Medicine  
Reviewer, Annals of Epidemiology  
Reviewer, Particle and Fiber Toxicology  
Reviewer, International Journal of Environmental Research and Public Health  
Reviewer, JAMA Cardiology

**E. *Ad Hoc* Reviewer**

Environmental Sciences Review Committee, NIEHS, 1989, 1993

Toxicology Study Section, NIH, 1989, 1990

Reviewer, Agency for Toxic Substances and Disease Registry, 1991-present

Member, Expert Panel on Multiple Chemical Sensitivities. ATSDR, Annapolis, MD. April 13-14, 1993

Participant, National Center for Environmental Health Planning for Performance. Centers for Disease Control and Prevention, Atlanta, GA, 1996

Co-chair, Planning Meeting on Personnel Needs and Scope of Practice Issues for Medical Toxicology. Institute of Medicine, Washington, DC., April 24-25, 1996

Report Reviewer, National Research Council, Board on Environmental Studies and Toxicology, 1996

Member, Special Emphasis Panel to Review Grant Applications for Community-based Prevention/Intervention/Research in Environmental Health Sciences. NIEHS, Research Triangle Park, NC, April 1-2, 1997

Chair, Postgraduate Course in Occupational and Environmental Medicine. Indoor Air: Symptoms, Evaluation, Diseases, and Management. American Lung Association/American Thoracic Society. San Francisco, CA, May 16-21, 1997

Member, Clinicians' Panel on Management of Mold-Exposed Individuals, John Hopkins Bloomberg School of Public Health Association of Occupational and Environmental Clinics/Society of Occupational and Environmental Health December 11-12, 2003

Reviewer, "Validation and evaluation of biomarkers in workers exposed to benzene in China," Health Effects Institute, Boston, MA. 2003

Reviewer, "Characterizing Exposure of Veterans to Agent Orange and Other Herbicides Used in Vietnam: Final Report," Institute of Medicine, Washington, DC, 2003

Member, Ad Hoc Review Panel, Epidemiological and Medical Monitoring of Former DOD Contract Workers at the Iowa Army Ammunition Plant, American Institute of Biological Science, Sterling, VA, January 15, 2004

Ad Hoc Reviewer, NIH Predoctoral Fellowship Awards for Minority, Disabled Students, Center for Scientific Review. March 16, 2004

Invited Participant, NIEHS/SOEH Roundtable on Mold-Related Health Effects: Remediation Worker Protection and Biomedical Research Issues, Washington, DC, June 28-29, 2004

Group Leader, Indoor Chemistry and Health Workshop, UC Santa Cruz, NIOSH, July 12-15, 2004

Ad Hoc Reviewer, NIH Predoctoral Fellowship Awards for Minority, Disabled Students, Center for Scientific Review, July 22, 2004

Reviewer, "Veterans and Agent Orange: Update 2004," Institute of Medicine of the National Academies, 2004

Session Chair, "Diesel Update" at American Thoracic Society Annual Meeting, San Francisco, CA, May 22, 2007

Member, Technical Qualifications Board for promotion to GS-14, US Environmental Protection Agency, November 19, 2014

Chair, Special Emphasis Panel, Review of R21 Time-Sensitive Applications, April 20, 2023.

#### **SERVICE ON STATE OF NEW JERSEY COMMITTEES AND REVIEW PANELS:**

Member, Committee on Health Effects of the PJP Landfill. New Jersey State Department of Health, 1986-1987

Chair, Pesticide Review Committee, Bureau of Pesticide Control, Division of Environmental Quality, New Jersey Department of Environmental Protection, 1985-1990

Governor's Appointee, Public Employees' Occupational Health and Safety Review Board, New Jersey Department of Labor, 1986-present

Member, Advisory Panel on Occupational Disease Surveillance, Occupational Health Service, New Jersey Department of Health, 1988-present

Member, Advisory Panel, Teratology Information Program, Division of Special Child Health Services, New Jersey Department of Health, 1989

Member, Task Force on Cancer Clusters in New Jersey, New Jersey Department of Health and Senior Services, 2003-2004

Member, Science Advisory Board-Public Health Standing Committee, New Jersey Department

of Environmental Protection, 2016-2022

Member, Biomonitoring Commission, NJ Department of Health. Trenton, NJ 2014

**SERVICE ON UNIVERSITY COMMITTEES:** University Internal Review Committee, UMDNJ  
1997

Task Force on Education/Curriculum, UMDNJ, 1997

Faculty mentoring committee, Judith Graber, PhD, Rutgers School of Public Health, 2018-present

Faculty mentoring committee, Robert Laumbach, MD, Rutgers, School of Public Health, 2018-present

Departmental promotion committee, Pamela Ohman Strickland, PhD, Rutgers School of Public Health, 2017

**SERVICE ON GRADUATE SCHOOL COMMITTEES:**

Executive Committee, New Jersey Graduate Program in Public Health, 1984-1992

**SERVICE TO THE COMMUNITY:**

Board of Directors, Center for Safety in the Arts, New York, NY, 1988-1995

**SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:**

Joel Moorhead, MD, PhD. PhD UMDNJ-School of Public Health, Fall 2006

Ashley Pettit, PhD, Rutgers/UMDNJ Joint Graduate Program in Toxicology  
2008-2014

Sampada Ghandi, PhD (epidemiology), UMDNJ-School of Public Health, 2012

Ashley Cole, PhD candidate (exposure science) Qualifying Exam Committee, 2018

Nan Ji, PhD candidate (Environmental & Occupational Health) Qualifying Exam Committee,  
2017

Iqra Farooqi, MD, MPH (epidemiology fieldwork supervisor), Rutgers School of Public Health,  
2018

Sydonia Manibusan, PhD candidate (exposure science), Qualifying Exam Committee, 2018

Breann Coffaro, PhD candidate (exposure science), Qualifying Exam Committee and  
Dissertation Committee, 2022

**SPONSORSHIP OF POSTDOCTORAL FELLOWS:**

Multiple Occupational/Environmental Medicine Residents

Lawrence Stein, PhD (Supported on NIOSH grant; Nancy Fiedler, PhD, primary supervisor)

Kendall Boyd, PhD (Supported on my CDC grant; William Hallman, PhD primary supervisor)

Noel Brewer, PhD (Support on my CDC grant; William Hallman, PhD primary supervisor)

Michelle Robertson, MD, MPH (first clinical EOHSI toxicology fellow)  
Glenn Greene, PhD, MD, MPH (Principal Mentor, K23 2001-2006))  
Frederici Lu, MD, MPH (T32), 2022-2023

## **CLINICAL ACTIVITIES:**

Attending Physician, Department of Medicine, Robert Wood Johnson University Hospital, 1987-present

Clinic Attending, Department of Medicine, Eric B. Chandler Health Center, 1988-1989

Director, Clinical Center of the Environmental and Occupational Health Sciences Institute (EOHSI), 1998-2014

Medical Director, Controlled Exposure Facility, EOHSI, 1996-present

## **GRANT SUPPORT:**

### **A. Principal Investigator**

1. Hunterdon Health Fund, Physician Education in Occupational Health: Interpersonal Skills for Effective Patient Care 1985-1986, \$15,000.
2. UMDNJ-Robert Wood Johnson Medical School, General Research Support, Mortality Study of New Jersey Sewage Treatment Operators, 1985-1986. \$17,500.
3. New Jersey Department of Environmental Protection, Office of Science and Research, Mortality Study of New Jersey Water Treatment Operators, 1987-1988, \$46,478.
4. New Jersey Department of Health Extrinsic Allergic Alveolitis Surveillance, 1986-1988.
5. American Lung Association of New Jersey, Epidemiologic Surveillance of Hospitalized Cases of Hypersensitivity Pneumonitis in New Jersey: 1983-1985, 1988-1990, \$10,000.
6. National Institute for Occupational Safety and Health, SENSOR: Cooperative Agreement To Support Sentinel Event Notification Systems for Occupational Risks, 1987-1988, \$51,188 (subcontract from NJ Department of Health).
7. National Institute for Occupational Safety and Health, SENSOR: Cooperative Agreement to Support Sentinel Event Notification Systems for Occupational Risks, 1988-1989, \$30,000 (subcontract from NJ Department of Health).
8. American Petroleum Institute, Pliofilm Hematology, 1989-1990, \$14,250.
9. Environmental and Occupational Health Sciences Institute, Immune Biomarker Addendum to Health Effects of Chronic Exposure to Pesticides, 1991, \$10,000.
10. Centers for Disease Control (CDC), Association of Occupational and Environmental Clinics, Immune Biomarker Standardization Project, 1990-1991, \$19,422.
11. American Petroleum Institute, Continuation of Pliofilm Hematology, 1990-1991, \$5,000.
12. National Institute of Environmental Health Sciences, Environmental/Occupational Medicine Academic Award (K07), 1992-1997 \$705,839.
13. National Institute for Occupational Safety and Health, Educating Physicians in Occupational Health and the Environment, 1992, \$10,289.
14. US Environmental Protection Agency, Time Dependence of Chemically Induced Leukemia 1992-1993, \$20,061.
15. National Institute for Occupational Safety and Health, Educating Physicians in Occupational Health and the Environment, 1993, \$9,748.
16. National Institute for Occupational Safety and Health, Educating Physicians in Occupational Health and the Environment, 1994, \$11,193.45.
17. Centers for Disease Control and Prevention, Cooperative Agreement to Conduct Studies of Illnesses Among Persian Gulf Veterans, Defining Gulf War Illnesses (#U50/CCU214463-01), 1997-2000, \$1,800,000.

18. New Jersey Department of Health, Hazardous Waste Fact Sheets (subcontract from Rutgers, The State University of New Jersey), 1998-2001, \$570,570.
19. Environmental Protection Agency, Measurement of Pesticide Exposure Among Farmworkers in New Jersey, 1999-2000, \$199,968.
20. NIEHS Center for Environmental Health Sciences, Human Genetic Susceptibility to Organophosphate Exposure Based on PON1 Polymorphism (P30 ES05022), 6/2000-3/2001, \$10,839.
21. NIEHS Research Center in Environmental Health Sciences General Population Health and Psychological Symptoms following WTC Disaster: Examination of Relationship to Plume Exposure, World Trade Center (WTC) Supplement ES05022-15S1 4/19/2002-3/31/2003, \$366,744.
22. CDC (subcontract Mount Sinai), World Trade Center Worker and Medical Screening Program, 10/2002 - 9/2003, \$120,000.
23. NIEHS/EPA, Environmental Factors in Medically Unexplained Physical Symptoms and Related Syndromes, (conference funded by CDC/ATSDR #ATR218434; #R3ES10663A) 01/2001-12/2001, \$30,511.
24. Veterans Administration East Orange, Center to Study War Related Illness, 5/2002-4/2003, \$37,500.
25. NIEHS Research Center in Environmental Health Sciences, (World Trade Center (WTC) Supplement P30 ES05022-16S) Symptoms, Psychology, Respiratory Disease and Disability in NYC Firefighters following the WTC, 4/03-4/04, \$194,652); no cost extension to 4/05. Carry over 4/15/05 – 3/31/06.
26. Cancer Institute of New Jersey, Oxidative Stress from Automobile Commuting Exposures: A Biomarker Study using the NJ Family Medicine Research Network. 5/1/08-4/30/09, \$50,000.
27. U.S.EPA (R832144), Responses to Fresh Aerosols in Susceptible Subjects, 09/01/2004-08/31/2008, \$1,521,398.
28. NIEHS Center for Environmental Health Sciences (P30 ES05022 Pilot Project), Exploration of Gene-Environment Interactions in Acute Exposures to Diesel Exhaust, 5/19/2005-3/31/2006, \$18,000.
29. NIH/NIEHS (2P30ES005022-21), Research Center in Environmental Health Science, 4/01/2009-3/31/2014, \$8,581,519, (IHSFC Project PI).
30. NIH/NIEHS (ES005022), Project 1: The WTC Follow-up Cohort, Dose Reconstruction, and Mechanistic Studies, 4/28/2011-3/31/2012, \$29,066 (Pilot Project PI)
31. NIH/NIEHS (Supplemental Award, ES005022) Mechanisms of Response to Diesel Exhaust in Subjects with Asthma, 8/01/12 – 3/31/14, \$23,250, (Project PI)
32. NIH/NIEHS (5P30 ES005022), Rutgers Center for Environmental Exposures and Disease, 4/01/2014-3/31/2019, \$6,250,000, (IHSFC-Project PI).
33. Rutgers The State University of NJ, China Office, Environmental Health in China, 4/1/2014-2/1/2016, \$10,000.
34. The Institute of International Education (IIE) (RQ1943), U.S. Department of State, The Impact of Ambient Air Pollution on Indoor Air Quality in China: Evaluation of a Practical Intervention, 4/1/2014-10/17/2016, \$249,986.
35. U.S.EPA (RD-83575901), Climate Change, Indoor Ozone and Vascular Function 5/01/15-4/30/18, \$999,975.
36. NIEHS (5P30 ES005022-31), Altered NAD+-dependent Sirt1 as a Biomarker of Circadian Disruption, 4/01/18-3/31/19, \$20,000 (Pilot Project PI)
37. Department of Veterans Affairs – (36C24519C0225), Burn Pit Exposure and Post Deployment Dyspnea. 9/30/19- 9/29/20 – (PI)
38. NIEHS (R21 Supplement to (5P30 ES005022) Portable air cleaners for mitigation of risk to families from SARS-CoV-2 aerosol exposure, 8/1/21-3/31/21. \$165, 356 (PI)

39. Center for Advanced Human Brain Imaging (CAHBIR). CO2-induced cognitive changes and fMRI, 2023-2024. Pilot grant. \$20,000

## **B. Co-Investigator**

1. Environmental and Occupational Health Sciences Institute, Acute Myelogenous Leukemia and Low Dose Benzene Exposure: A Case Control Study Using Death Certificates, 1988, \$15,000. (D. Wartenberg, PI)
2. Evaluation of the Quality and Quantity of Information Available for the Study of Cancer Among Blacks and Economically Disadvantaged Individuals in New Jersey (funded by NJ Commission on Cancer Research, \$65,000), 1988-1989, (M. Greenberg – PI)
3. Toxicologically related Research Training for Occupational Medicine Residents (funded by National Institute for Occupational Safety and Health, \$29,677), 1987-1988. (M. Gochfeld, PI)
4. Research in Environmental Health Sciences (funded as National Institute of Environmental Health Sciences Center Grant), 1988-1992. HMK member of Core IV, Exposure Measurement and Assessment.
5. Health Effects of Chronic Exposure to Pesticides (funded by New Jersey Department of Environmental Protection, subcontract from Rutgers University, \$189,996), 1989-1990. HMK co-principal investigator on subcontract. (N. Fiedler, PI)
6. Multiple Chemical Sensitivities: An Objective Evaluation (funded by Hazardous Substance Management Research Center, \$241,000), 1989-1992. (N. Fiedler, PI)
7. Biomarkers of Benzene Exposure (funded by the United States Environmental Protection Agency, \$18,000), 1989-1992. (B. Goldstein, PI)
8. Toxicologically related Research Training for Occupational Medicine Residents (funded by National Institute for Occupational Safety and Health, \$481,090), 1992-1998, (M. Gochfeld, PI)
9. National Institute of Environmental Health Sciences, Research in Environmental Health Sciences, 1993-1998, \$6,184,538, (M. Gallo, PI)
10. American Lung Association, Bronchial Hyperreactivity Following Acute Inhalation Injury 1994-1997, \$50,000, (S. Mohr, PI)
11. Department of Veterans Affairs, New Jersey Center for Environmental Hazards Research, 1994-2000, \$2,600,000, (B. Natelson, PI)
12. NIOSH (ERC T42 CCT210425) Toxicologically-related Research Training for Occupational Medicine Residents 7/2000-6/2005, \$674,345. (M. Gochfeld, PI).
13. NIOSH, Health Effects to Exposures to VOCs, Ozone and Stress, 1999-2002, \$1,311,430. (N. Fiedler, PI)
14. NIEHS (1K23 ES00385-01) Nasal Responses to Airborne Environmental Chemicals 3/9/2001-2/28/2006, \$645,476. HMK principal mentor, (G. Greene, PI)
15. NIOSH B Education & Research Center, Region II, Development of a Nasal Respiratory System Blocking Apparatus for the Investigation of Non-Specific Building-Related Illness, 8/2000 - 7/2001, \$9,800. (G. Greene, PI)
16. ESRI -Environmental Sensitivities Research Institute (RQ1676), Double-blind Placebo-controlled Study of Caffeine Sensitivity in MCS Patients, 11/00 - 6/02, \$24,981. (R. Laumbach, PI)
17. CDC (E11/CCE219962-01), Improved Risk Communications to Prevent Unexplained Illnesses Related to Military Deployments, 9/01-8/04; \$954,188, (W. Hallman, PI)
18. NIOSH Exploratory/Developmental Grant (R21) Program, Work Organizational Factors and Psychological Distress, 9/02-8/04; \$234,375, (O. Osinubi, PI).
19. NCCR (R25 RR018490) Hope Partnership, 09/30/03 - 08/31/08, \$1,619,760.00. (A. Gotsch, PI).
20. DOD DAMD, The Effects of Diesel Exhaust and Stress on the Acute Phase Response and Symptoms in the Chemically Intolerant. 1/1/03 – 12/31/05, \$1,519,951 (N. Fiedler PI)
21. American Petroleum Institute (01-0000-4714), Controlled Human Exposure – Response Study to Environmental Levels of Hydrogen Sulfide in Normal Subjects: Pilot Investigations and Neurobehavioral Study. 8/2001-1/2006, \$1,027,242 (N. Fiedler, PI).

22. NIOSH (1R01 OH8198), Solvent Exposure: Functional Imaging and Behavior. 09/01/04-08/31/07, \$1,763,160 (N. Fiedler, PI).
23. CDC (U10 OH008239), Clinical Center for Monitoring Health in WTC Responders, 07/04-06/09, \$1,985,000 (I. Udasin, PI).
24. NJDHSS, Sentinel Event Notification System for Occupational Risks Partnership. 1/03-9/30/05, \$52,000 (HMK consultant)
25. C. North, PI, Washington University, St. Louis, Symptomatic and Perceptual Responses to Anthrax Bioterrorism on Capitol Hill. \$25,000 (HMK consultant)
26. Aventis Pharmaceuticals, Work Performance and Insulin Therapy in Diabetics: a Feasibility Study. 9/03-9/04, \$15,000 (N. Fiedler, PI).
27. NIOSH (Pilot Project through Mount Sinai), Oxidative Stress Markers of Diesel Exhaust. 12/20046/2005, \$9,257 (R. Laumbach, PI).
28. NIEHS Center for Environmental Sciences (P30 ES005022-18 Pilot Project), Effects of Inhaled, Fresh Diesel Exhaust on Airway Remodeling in an Asthmatic Mouse Model. 4/1/05 - 3/31/06, \$18,000 (D. Gerecke, PI).
29. UMDNJ Foundation, Inflammatory Effects of Diesel Exhaust, 6/2005-5/2006, \$25,000 (R. Laumbach, PI).
30. Mentored Clinical Scientist Career Development Award (K08, NIEHS), Mechanisms of Responses to Diesel Exhaust and Stress. 9/1/2005-8/31/2010, \$678,915 (Laumbach R J, PI).
31. NIEHS Center for Environmental Sciences (Pilot Project), Effects of Diesel Exhaust Particles on Human Antimycobacterial Immunity. 4/1/06 – 3/31/07, \$29,822 (Schwander, PI).
32. NIEHS (Pilot), Diabetic Susceptibility to the Procoagulant Effects of Traffic-Generated Particulate Air Pollution. 4/1/06 – 3/31/07, \$29,617 (D. Rich, PI).
33. NIEHS (Pilot), Diesel Exposure in Mild and Moderate Asthmatics. 4/1/06 – 3/31/07, \$30,394 (S. Hussain, PI).
34. NIEHS (1 R21 ES015135), Lead Exposure, HPA Axis Dysfunction, and Blood Pressure: Hypertension Risk. 9/2006 – 8/2009, \$717,914 (N. Fiedler, PI).
35. Health Effects Institute (4760-RPFA05-3), Molecular and physiological responses to drastic changes in PM concentration and composition. 7/1/07-12/31/09, \$569,602 (J. Zhang, PI).
36. American Heart Association, Triggering of myocardial infarction by ambient fine particles and fine particle components. 7/1/07-6/30/10, \$195,000 (D. Rich, PI; H Kipen mentor).
37. NIEHS (1 R01 ES015864), Response to Drastic Changes in Air Pollution: Reversibility and Susceptibility. 10/01/07- 9/30/10, \$1,406,290 (J. Zhang, PI).
38. NIEHS (Center pilot), COPD Susceptibility to Procoagulant Effects of Traffic-Generated Particulate Air Pollution. 6/1/08-3/31/09, \$20,000 (Hussain, PI).
39. NIEHS (1R211 ES016928), Diesel Exhaust Particle Effects on Human Immunity to Mycobacterium Tuberculosis. 9/01/08 – 8/31/2010, \$429,000 (S. Schwander, PI).
40. NIH/NIEHS (ES005022), Oxidative Stress, Nitric Oxide Metabolism and Vascular Function in Type II Diabetes. 2009-3/31/2010 (A. Gow, PI).
41. The Boeing Corporation, Evaluation of VOCs that cause symptoms in aircraft cabins. 1/1/2009 – 12/31/09, \$201,000, HMK- Medical Consultant (C. Weisel, PI).
42. U.S.EPA (RD83469301), Risk Assessment for Manufactured Nanoparticles used in Consumer Products (RAMNUC). 7/01/10-6/30/14, \$1,999,995 (J. Zhang, PI)
43. U.S.EPA Star, Effects of Stress and Traffic Pollution on Childhood Asthma in an Urban Community. 6/1/2010 – 5/31/2016, \$1,249,960 (R. Laumbach, PI).
44. The V-Foundation, Chemoprevention of Breast and Prostate Cancer in the Shift Workers by Dietary Methylselenocysteine: Effects on circadian rhythm and estrogen receptor -  $\alpha$  cycling. 11/1/08 – 10/31/15, \$600,000 (H. Zarbl, PI).
45. NIOSH (1U01OH010415-01), Obstructive Sleep Apnea in WTC Responders: Role of Nasal Pathology. 09/01/12-08/31/16, \$3,999,314 (J. Sunderram, PI).

46. CDC (200-2011-39385), World Trade Center Responders Health Program. 7/1/14 - 3/31/17, \$2,049,044 (I. Udasin, PI).
47. New Jersey Health Foundation, Rutgers Commuter and Community Cohort (RC3) Study. 1/01/15 - 12/31/15, \$50,000 (R. Laumbach, PI).
48. NIH/NIEHS (ES004738) Activated Macrophages and Ozone Toxicity. 3/15/2015-12/31/2020, \$1,915,000 (D. Laskin, PI).
49. NIEHS (R21ES026802) Altered NAD<sup>+</sup>-dependent Sirt1 as a Biomarker of Circadian Disruption by Shift Work. 3/01/2017-2/28/2019, \$437,250 (M. Fang, PI)
50. NIH/CATS (UL1TR003017), New Jersey Alliance for Clinical and Translational Science: 3/11/2019-2/29/2024 \$3,214,394.
51. NIH/BIEHS (ES004738) Activated Macrophages and Ozone Toxicology. 7/1/22-6/30/27, \$1,850,000 (D. Laskin, PI).
52. Acute Cognitive Impairment from CO<sub>2</sub> exposure: translating mouse mechanisms to humans. NIEHS R21, ES033777, 7/1/22 - 6/30/24. \$475,000

## **PUBLICATIONS:**

### **A. Refereed Original Journal Articles:**

1. Simpson, J.B., Reid, I.A., Ramsay, D.J., and **Kipen, H.M.** Mechanism of the Dipsogenic Action of Tetradecapeptide Renin Substrate. *Brain Research*, 57:63-72, 1978.
2. **Kipen, H.M.**, & Lerman, Y. Respiratory Abnormalities Among Photographic Developers. *American Journal of Industrial Medicine*, 9:341-347, 1986.
3. **Kipen, H.M.**, Lilis, R., Suzuki, Y., Valciukas, J.A., & Selikoff, I.J. Pulmonary fibrosis in asbestos insulation workers with lung cancer: a radiological and histopathological evaluation. *British Journal of Industrial Medicine*, 44:96-100, 1987.
4. **Kipen, H.M.** A perspective on asbestos-related disease in New Jersey. *New Jersey Medicine*, 85(11):915-920, 1988.
5. **Kipen, H.M.**, & Favata, E.A. Environmental aspects of reproductive toxicity. *New Jersey Medicine*, 85(11):937-945, 1988.
6. **Kipen, H.M.**, Cody, R.P., & Goldstein, B.D. Use of Longitudinal Analysis of Peripheral Blood Counts to Validate Historical Reconstruction of Benzene Exposure. *Environmental Health Perspectives*, 82:199-206, 1989.
7. Lerman, S., & **Kipen, H.M.** Material Safety Data Sheets: Caveat Emptor. *Archives of Internal Medicine*, 150:981-984, 1990.
8. **Kipen, H.M.**, Tepper, A., Rosenman, K., & Weinrib, D. Limitations of Hospital Discharge Diagnoses for Surveillance of Extrinsic Allergic Alveolitis. *American Journal of Industrial Medicine*, 17(6):701-709, 1990.
9. **Kipen, H.M.**, Wartenberg, D., Scully, P.F., & Greenberg, M. Are Non-Whites at Greater Risk for Occupational Cancer? *American Journal of Industrial Medicine*, 19(1):67-74, 1991.
10. **Kipen, H.M.**, Gelperin, K., Tepper, A., & Stanbury, M. Acute Occupational Respiratory Diseases in Hospital Discharge Data. *American Journal of Industrial Medicine*, 19(5):637-642, 1991.
11. Henneberger, P.K., Stanbury, M.J., Trimbath, L.S., & **Kipen, H.M.** The Use of Portable Peak Flow Meters in the Surveillance of Occupational Asthma. *Chest*, 100(6):1515-1521, 1991.
12. Schneider, D., Greenberg, M.R., Wartenberg, D., & **Kipen, H.M.** The Study of Cancer in Minorities. *New Jersey Medicine*, 88(10):713-719, 1991.
13. Fiedler, N., Maccia, C., & **Kipen, H.M.** Evaluation of Chemically Sensitive Patients. *Journal of Occupational Medicine*, 34:529-538, 1992.
14. **Kipen, H.M.**, Fiedler, N., Maccia, C., Yurkow, E., Todaro, J., & Laskin, D. Immunologic Evaluation of Chemically Sensitive Patients. *Toxicology and Industrial Health*, pp 125-135, 8/4 (July-August 1992).



15. **Kipen, H.M.**, & Craner, J.A. Sentinel Pathophysiologic Conditions: An Adjunct to Teaching Occupational and Environmental Disease Recognition and History Taking. *Environmental Research*, 59:93-100, 1992.
16. Cody, R.P., Strawderman, W.W., & **Kipen, H.M.** Hematologic Effects of Benzene: Job Specific Trends During the First Year of Employment Among a Cohort of Benzene-Exposed Rubber Workers. *Journal of Occupational Medicine*, 35(8):776-782, 1993.
17. Wartenberg, D., Laskin, D., & **Kipen, H.M.** Human Immunotoxicologic Markers of Chemical Exposures: Preliminary Validation Studies. *Journal of Exposure Analysis and Environmental Epidemiology*, 3(1):51-61, 1993.
18. Fiedler, N., **Kipen, H.M.**, DeLuca, J., Kelly-McNeil, K., & Natelson, B. Neuropsychology and Psychology of MCS. *Toxicology and Industrial Health*, 10:545-554, 1994.
19. **Kipen, H.M.** Neuroscience Research Agenda Options Panel for MCS. *Toxicology and Industrial Health*, 10:645-652, 1994.
20. Sparks, P.J., Daniell, W., Black, D.W., **Kipen, H.M.**, Altman, L.C., Simon, G.E., & Terr, A.I. Multiple Chemical Sensitivity Syndrome: A Clinical Perspective. I. Case Definition, Theories of Pathogenesis, and Research Needs. *Journal of Occupational Medicine*, 36(7):718-730, 1994.
21. Sparks, P.J., Daniell, W., Black, D.W., **Kipen, H.M.**, Altman, L.C., Simon, G.E., & Terr, A.I. Multiple Chemical Sensitivity Syndrome: A Clinical Perspective. II. Evaluation, Diagnostic Testing, Treatment, and Social Considerations. *Journal of Occupational Medicine*, 36(7):731-737, 1994.
22. **Kipen, H.M.**, Blume, R., & Hutt, D. Asthma Experience in an Occupational and Environmental Medicine Clinic: Low Dose RADS. *Journal of Occupational Medicine*, 36(10):1133-1137, 1994.
23. Fiedler, N., Mohr, S.N., Kelly-McNeil, K., & **Kipen, H.M.** Response of Sensitive Groups to MTBE. *Inhalation Toxicology*, 6(6):539-552, 1994.
24. Sikorski, E.E., **Kipen, H.M.**, Selner, J.C., Miller, C.M., & Rodgers, K.E. Roundtable Summary: The Question of Multiple Chemical Sensitivity. *Fundamental and Applied Toxicology*, 24:22-28, 1995.
25. **Kipen, H.M.**, Hallman, W. Kelly-McNeil, K., & Fiedler, N. Measuring Chemical Sensitivity Prevalence. *American Journal of Public Health*, 85(4):574-577, 1995.
26. Stanbury, M., Joyce, P., & **Kipen, H.M.** Silicosis and Workers' Compensation in New Jersey. *Journal of Occupational and Environmental Medicine*, 37(12): 1342-1347, 1995.
27. Fiedler, N., **Kipen, H.M.**, DeLuca, J., Kelly-McNeil, K., & Natelson, B. A Controlled Comparison of Multiple Chemical Sensitivity and Chronic Fatigue Syndrome. *Psychosomatic Medicine*, 58(1):38-49, 1996.
28. **Kipen, H.M.**, & Lien, T.M. Teaching Occupational History-taking: Problem-based Learning vs. Self-directed Practice. *Academic Medicine*, 71(5):541-542, 1996.
29. **Kipen, H.M.** Assessment of Reproductive Health Effects of Hazardous Waste. *Toxicology and Industrial Health*, 12(2):211-224, 1996.
30. Fiedler, N., **Kipen, H.M.**, Natelson, B., Ottenweller, J. Chemical Sensitivities and the Gulf War: Department of Veterans Affairs Research Center in Basic and Clinical Studies of Environmental Hazards. *Regulatory Toxicology and Pharmacology*, 24:S129-138, 1996.
31. Fiedler, N., & **Kipen, H.M.** (eds). *Experimental Approaches to Chemical Sensitivity. Environmental Health Perspectives*, 105 Supplement 2:409-547, 1997.
32. Fiedler, N., & **Kipen, H.M.** *Chemical Sensitivity: The Scientific Literature in: Experimental Approaches to Chemical Sensitivity. Environmental Health Perspectives*, 105 Supplement 2:409-415, 1997.
33. **Kipen, H.M.**, & Fiedler, N. Introduction and Overview in: *Experimental Approaches to Chemical Sensitivity. Environmental Health Perspectives*, 105 Supplement 2:405-407, 1997.

34. Fiedler, N., **Kipen, H.M.**, Kelly-McNeil, K., & Fenske, R. Long-term Use of Organophosphates and Neuropsychological Performance. *American Journal of Industrial Medicine*, 32(5):487-496, 1997.
35. **Kipen, H.M.**, Fiedler, N., & Lehrer, P. Multiple Chemical Sensitivity: A Primer for Pulmonologists. *Clinical Pulmonary Medicine*, 4(2):76-84, 1997.
36. Lynch, R.M., & **Kipen, H.M.** Building Related Illness and Employee Lost Time Following Application of Hot Asphalt Roof: A Call for Prevention. *Journal of Toxicology and Industrial Health*, 14(6):857-868, 1998.
37. Pollet, C., Natelson, B.H., Lange, G., Tiersky, L., DeLuca, J., Policastro, T., Desai, P., Ottenweller, J.E., Korn, L. Fiedler, N., & **Kipen, H.M.** Medical Evaluation of Persian Gulf Veterans with Fatigue and/or Chemical Sensitivity. *Journal of Medicine* 29(3 & 4):101-113, 1998.
38. Hodgson, M.J., & **Kipen, H.M.** Gulf War Illnesses: Causation and Treatment. *Journal of Occupational & Environmental Medicine* 41(6):443-452, 1999.
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41. Fiedler, N., Udasin, I., Gochfeld, M., Buckler, G., Kelly-McNeil, K., **Kipen, H.M.** Neuropsychological and Stress Evaluation of a Residential Mercury Exposure. *Environmental Health Perspectives* 107(5):343-347, 1999.
42. Peckerman, A., Natelson, B.H., **Kipen, H.M.**, Smith, S.L., Dahl, K., Pollet, C., & Ottenweller, J.E. Quantitative sensory testing in Gulf War Veterans with chronic fatigue syndrome. *Journal of Environmental Medicine* 1:235-240, 1999.
43. **Kipen, H.M.**, & Fiedler, N. A 37-Year-Old Mechanic with Multiple Chemical Sensitivities. *Environmental Health Perspectives* 108(4):377-381, 2000.
44. Osinubi, O. Y.O., Gochfeld, M., & **Kipen, H.M.** Health Effects of Asbestos and Non-Asbestos Fibers. *Environmental Health Perspectives*, 108(4):665-674, 2000.
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50. Greene, G.G., & **Kipen, H.M.** The Vomeronasal Organ and Chemical Sensitivity: A Hypothesis. *Environmental Health Perspectives* 110 Supplement 4:655-62, 2002.
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54. Clauw, D.J., Engel, C.C., Aronowitz, R., Jones, D., Phil, E., **Kipen, H.M.**, Kroenke, K., Ratzan, S., Sharpe, M., & Wessely, S. Unexplained Symptoms after Terrorism and War: An Expert Consensus Statement. *Journal of Occupational and Environmental Medicine* 45(10):1040-8, 2003.
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57. Brewer, N.T., Hallman, W.K., **Kipen, H.M.**, & Fiedler, N. Why Do People Report Better Health by Phone Than By Mail? *Medical Care* 42(9):875-883, 2004.
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59. Laumbach, R.J., & **Kipen, H.M.** Bioaerosols and sick building syndrome: particles, inflammation and allergy. *Current Opinion in Allergy and Clinical Immunology*, 5(2):135-139, 2005.
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81. Sarkar, S., Song, Y., Sarkar, S., **Kipen, H.M.**, Laumbach, R.J., Zhang, J., Ohman Strickland, P.A., Gardner, C.R., & Schwander, S. Suppression of the NF- $\kappa$ B pathway by diesel exhaust particles impairs human antimycobacterial immunity. *Journal of Immunology*, 188 (6): 2778-2793, 2012. PMID: PMC3293992
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#### D. ABSTRACTS (selected since 2008):

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2. Laumbach, R.J., Lelyanov, O., Gong, J., Ohman-Strickland, P., Kelly-McNeil, K., Gandhi, S., Wang, Q., Zhang, J., Fiedler, N., **Kipen, H.M.** Glutathione-S-Transferase M1 and Effects of Diesel Exhaust on Heart Rate Variability in Healthy Humans. American Thoracic Society International Conference, Toronto, Canada, 2008.

3. Zhang, J.J., Tong, J., Zhang, L., Ohman-Strickland, P., Laumbach, R., Stern, A., Fiedler, N., **Kipen, H.M.** Urinary Biomarkers of Diesel Exhaust Exposure, International Society for Environmental Epidemiology / International Society for Exposure Science, Annual Meeting, Pasadena, CA, 2008.
4. Rich, D.Q., **Kipen, H.M.**, Zhang, J., Kamat, L., Turpin, B., Wilson, A., Kostis, J. Triggering of myocardial infarction by ambient fine particles and fine particles species. *Am J Resp Crit Care Med* 179(1):A1176, 2009.  
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11. Pettit, A.P., Brooks, A., Laumbach, R., Fiedler, N., Wang, Q., Ohman-Strickland, P., Zhang, J., **Kipen, H.** Alteration of Peripheral Blood Monocyte Gene Expression in Humans Following Diesel Exhaust Inhalation. Society of Toxicology Annual Meeting, A1857, 2010.
12. Laumbach, R.J., Lelyanov, O., Gandhi, S., Kelly-McNeil, K., Veleeparambil, M., OhmanStrickland, P., Gow, A.J., Zhang, J., **Kipen, H.M.** Controlled Exposure to Diesel Exhaust is Associated with a Transient Increase in Nitrite in Exhaled Breath Condensate in Healthy Humans. *Am J Respir Crit Care Med* 181;2010:A1030.
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23. Laumbach, R.J., Hussain, S., Gong, J., Zhang, J., Kelly-McNeil, K., Ohman-Strickland, P., Gow, A., **Kipen, H.M.** Validation of Exhaled Breath Condensate Measures of Oxidative and Nitrosative Stress as Markers of Acute Traffic Pollution Effects”, 2011.
24. Laumbach, R.J., Rich, D.Q., Ko, S., Cepeda, C., Kelly-McNeil, K., Ohman-Strickland, P., Zhang, L., Zhang, J., **Kipen, H.M.** Short-term Exposure to Traffic-related Particles is Associated with Acute Decrease in High Frequency Heart Rate Variability among Healthy Adults, American Thoracic Society Annual Meeting, 2011.
25. Rich, Q., **Kipen, H.M.**, Ozkaynak, H., Baxter, L., Burke, J., Crooks, J., Lunden, M., Kostis, J., Zhang, J., Turpin, B. Triggering of Transmural Infarctions by Ambient Fine Particles, Role of Secondary versus Primary Particle Species Mass Fractions. International Society for Environmental Epidemiology, 2011.
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27. Zhang, J., Zhu, T., **Kipen, H.M.**, Wang, G., Huang, W., Rich, D., Zhu, P., Wang, Y., Hu, M., Diehl, S. Cardio-respiratory Biomarker Responses of Healthy Young Adults to Drastic Air Quality Changes. International Society for Environmental Epidemiology, 2011.
28. Laumbach, R.J., Rich, D.Q., Gong, J., Zhang, L., Zhang, J., Ko, S., Cepeda, C., Kelly-McNeil, K., Ohman-Strickland, P., Pettit, A.P., Gow, A., **Kipen, H.M.** Traffic Pollution and Biomarkers of Pulmonary Oxidative Stress in Healthy Humans. American Thoracic Society International Conference, 2012.
29. Pettit A., **Kipen H.**, Laumbach R., Fan Z., Ohman-Strickland P., Cepeda C., Black K., Gow A. Vascular Nitric Oxide Production in Diabetics and Controls Following Acute Traffic Pollution Exposure. (International Society for Epidemiology Annual Meeting, Basel, Switzerland, 2013.
30. Pettit A., **Kipen H.**, Laumbach R., Fan Z., Ohman-Strickland P., Cepeda C., Black K., Gow, A. (Poster) Altered Vascular Nitric Oxide Production in Type II Diabetic and Control Subjects Following Acute Exposure to Traffic. Mid Atlantic Society of Toxicology Fall 2013 Meeting, 2013.
31. Pettit A., **Kipen H.**, Laumbach R., Fan Z., Ohman-Strickland P., Cepeda C., Black K., Gow A. Altered Vascular Nitric Oxide Metabolism in Diabetic and Control Subjects Following Acute Exposure to Traffic. Society of Toxicology Annual Meeting, A858, 2014.

32. **Kipen H.**, Laskin J.D., Laskin D.L., Heck D.E., Liou P.J. Astronaut Health Issues Arising from Indoor Air Contamination on the International Space Station at the American Astronautical Society. NASA Research and Development Conference in Chicago, IL, 2014.
33. **Kipen H.**, Laumbach, R. Mechanisms of Health Effects from Traffic-Related Air Pollution (TRAP): Real World Studies in Humans. Society of Toxicology Annual Meeting, 2015.
34. Chao L., Mukherjee, D., Weschler, C., **Kipen, H.**, Georgopoulos, P. A Computational Framework for Modeling Multisystem Biological Effects of Multiroute Human Exposures to Ozone and Associated Air Pollutants. ISES Conference, Research Triangle Park, NC, 2017.
35. Mi Z., Laumbach R., **Kipen H.**, Georgopoulos P. Integrating Spatiotemporal Information System Approaches with Agent-Based Modeling for Studies of Human Exposures to Traffic Related Air Pollution (TRAP). ISES Conference, Research Triangle Park, NC, 2017.
36. **Kipen H.M.**, Black K., Choi H., Cervelli J.A., Hernandez M., Alimokhtari S., Perez A., Laskin J.D., Laskin D.L. Characterization of Sputum Macrophages from Humans Exposed Experimentally to Ozone. Toxicological Sciences, A1057, 2017.
37. **Kipen H.M.** Reduced Indoor Air Pollutant Exposures and Projected Health Risks Using a Portable Air Cleaner in Chinese Homes, Toxicological Sciences, A2783, 2018.
38. **Kipen H.M.**, Meng Q., Black K., Laumbach R.J., Alimokhtari S. Reductions in Indoor Air Pollutants with Use of Portable Indoor Air Cleaners: Demonstration of Effectiveness in an Urban Environment. American Thoracic Society Annual Meeting, A2829/515, 2018.
39. Chao L., **Kipen H. M.**, Laskin D.L., Georgopoulos P.G. A Computational Biology Framework for Modeling Multisystem Adverse Outcome Pathways Initiated by Exposures to Ozone and Associated Air Pollutants. Society of Toxicology 58th Annual Meeting, Baltimore, MD, 2019.
40. **Kipen, HM**, Black, K, Laumbach, R, Meng, Q, Black, K, Alimokhtari, S, Perez, C, Weschler, C, Ryan, PB. Reductions in Indoor Air Pollutants with Use of Portable Indoor Air Cleaners: Windows Open v. Windows Closed. American Journal of Respiratory and Critical Care Medicine 2019; 199:A6012.
41. Ji, N, **Kipen, HM**, Gong, J, Ohman-Strickland, P, Zhang, Laskin, DL, Fiedler, N, Laumbach, RJ. Changes in Peripheral Blood Mononuclear Cell Counts Among Healthy Volunteers After Controlled Exposures to Diesel Exhaust and Psychological Stress. Amer Thor Soc Annual Meeting., 2022
42. Lu , FT, Laumbach, RJ, Legard A, Myers, NT, Black, KG , Ohman-Strickland , De Resende, A, L.D. Calderón, LD, Mainelis, G, **Kipen, HM**. Real-world Effectiveness of Portable Air Cleaners in Reducing Home Particulate Matter Concentrations. American Journal of Respiratory and Critical Care Medicine 2023;207:A2793.
43. **Kipen, HM**, Lu, F, Fiedler, N, Black, K, Satish, U, Guo, C, Calderon, L, Gow, A , Mechanisms to Explain Acute Cognitive Impairment Following Carbon Dioxide Inhalation. American Journal of Respiratory and Critical Care Medicine 2023;207:A4603
44. Lu, F, Fiedler, F, Usha Satish, Kathleen G. Black, Alicia Legard, De Resende, A., Calderón, L, Guo, C, Gow, A, **Kipen, HM**. Two hours of inhaled carbon dioxide in healthy humans leads to acute cognitive impairment supportive of a systemic vascular inflammation model. American Thoracic Society Annual Meeting. 2023.
45. Gupta, D, Lu, Fred, Legard, A, Black, K, De Resende, A, Calderon, L, Guo, CJ, Gow, A, **Kipen, HM**. Exposure of Humans to Environmentally CO2 Results in NADPH Oxidase activation and Increased Oxygen Consumption in PMNs can cause Cognitive Decline. Society of Toxicology Annual Meeting, 2024.

## **PRESENTATIONS (SELECTED SINCE 2000):**

### **A. Scientific (Basic Science)**

1. "Medically Unexplained Symptoms: Field and Laboratory Investigations," Yale University of School of Medicine, Department of Medicine, Occupational Medicine Program, February 27, 2001.

2. Facilitator, Thematic Poster Session, Occupational Allergic and Non-Allergic Airways Disease at ATS San Francisco, CA, May 20, 2001.
3. Participant as a Panel Member at the ATSDR Expert Panel Meeting, Atlanta, GA, June 18-19, 2001.
4. Invited Expert on "Air Pollutants and Related Health Effects from the World Trade Center Fire and Collapse" on Radio Station 101.5 on September 13, 2001 (aired on 9/14/01).
5. Invited Expert on "Expected Health Impacts of the World Trade Center Disaster" on Television NJ News 12 on September 15 - 16, & 19, 2001.
6. Invited Panel Member at NIEHS meeting, John Hopkins University, Bloomberg School of Public Health, on Planning and Organizing a Response to the World Trade Center Tragedy, September 21, 2001.
7. Invited Speaker on "Odors; Chemical Sensitivities, and Stress Factors in Exposed Individuals,"
8. Environmental Health Issues Related to the World Trade Center Disaster, New York University, New York, NY, October 18, 2001.
9. Invited Plenary Speaker at the Military and Veterans Health Coordinating Board Session on "Longitudinal Examination of Symptom Patterns Among Gulf War Registry Veterans, Rockville, MD, December 10, 2001.
10. Invited Speaker on "Potential Bioterrorism Agents" at the Bioterrorism and Chemical Hazards Collaboration—Inaugural Meeting, Woodbridge Hilton, Woodbridge, NJ, December 11, 2001.
11. Facilitator, "Indoor Exposure: Cigarette Smoke, Endotoxin, Irritants and Allergens. Poster Discussion Session. American Thoracic Society International Conference, Atlanta, GA, May 17-22, 2002.
12. Invited Speaker on "Multiple Chemical Sensitivity" at SOEH International Conference on Pesticide Exposure and Health, Bethesda, MD, July 11, 2002.
13. Invited Speaker on "Controlled Exposure Challenges to Elucidate Building Related Illness and Other Medically Unexplained Symptoms" at the 22nd International Symposium of UOEH, Japan, Conference I: Xenobiotics and Host Responses, Japan, Sept 24-25, 2002.
14. Invited Plenary Speaker on "Advances in Understanding Symptom-based Health Effects: Indoor Air Pollution and Gulf War Syndrome" at the Asian Conference for Occupational Health (ACOH) Symposium in Taipei, Taiwan on November 3, 2002.
15. Speaker on "Current Health Problems and Future Concerns from the World Trade Center Fallout and Experience" in the Support for the World Trade Center Disaster Session at the 2002 Eastern Analytical Symposium (EAS) at the Garden State Exhibit Center, Somerset, NJ on November 18, 2002.
16. Olfaction, Odors and Perception in E/O Syndromes, American Occupational Health Conference Research Session, Atlanta, GA, May 6, 2003.
17. Investigating Medically Unexplained Symptoms: From Field Studies to Controlled Exposures, American Occupational Health Conference Research Session, Atlanta, GA, May 6, 2003.
18. Presider on "Occupational Airway Disease/Asthma and Allergy." ATS 2003-99th International Conference, Seattle, WA, May 19, 2003.
19. Chair, "Occupational Asthma" Poster Session. ATS Conference, Seattle, WA, May 20, 2003.
20. Chair, "Occupational Asthma" Poster Session. ATS Conference, Orlando, FL, May 25, 2004.
21. "Neurotoxic and Neurobehavioral Effects of Mold Exposure" (with N. Fiedler). NIEHS/SOEH Conference on Mold-Related Health Effects: Clinical Remediation Worker Protection and Biomedical Research Issues," Washington, DC, June 28-29, 2004.
22. "Responses to Fresh Aerosol in Susceptible Subjects". NIEHS/EPA Research Program, The Role of Air Pollutants in Cardiovascular Disease, Washington, DC, September 28, 2004.
23. Chair, Plenary Session VII: Closing Talk, "Recent Advances in Benzene Toxicity," Munich, Germany, October 10-12, 2004.
24. "Human Neurobehavioral Effects of Controlled Exposure to Hydrogen Sulfide" poster session at the International Society of Exposure Analysis (ISEA), Philadelphia, PA on October 19, 2004.



25. "Defining Gulf War Illness: Factors, Clusters and Diagnoses" Institute of Medicine, Committee on Gulf War and Health, Washington, DC, April 20, 2005.
26. Keynote Speaker, "Gene-Environment-Stress Interactions: Diesel Exposures and Cardiopulmonary Disease" at the New Jersey Thoracic Society 33rd Annual Scientific Session, New Brunswick, NJ, June 3, 2005.
27. "Health Impact of Nanoparticles" Emerging Environmental Issues and Policies at the Mid-Atlantic States Section of the Air and Waste Management Association Spring Technical Conference, Hyatt Regency, New Brunswick, NJ, April 6, 2006.
28. Co-Chair and Speaker, "Combustion Nanoparticles and Cardiovascular Disease" at the Nanoparticles: Health, Science and Technology, ERC Annual Scientific Meeting, Mount Sinai Medical Center, April 7, 2006.
29. Session Organizer and Moderator, "What's New in Air Pollution: Investigations from Piscataway to Peking". American College of Occupational & Environmental Medicine Annual Meeting, New York, NY. April 14, 2008.
30. The Beijing HEART Study: Review of Biological Endpoints. International Society for Environmental Epidemiology / International Society for Exposure Science, Annual Meeting, Pasadena, CA, October 15, 2008.  
The Integrated Health Sciences Facility Core (IHSFC) of the NIEHS Center at UMDNJ-Robert Wood Johnson Medical School. NIEHS Center Director's Meeting. Philadelphia, PA, October 21, 2008.
31. "What the Beijing Olympics is Teaching us About Acute Air Pollution Health Effects," American Thoracic Society Annual Conference, San Diego, CA, May 20, 2009.
32. "A look at Air Pollution and Health: Emphasis Asia." International Workshop on Causes and Prevention of Agricultural and Environmental Diseases, Bangkok, Thailand, October 13, 2009.
33. "When the Dose is Low and the Response is Not: Multiple Chemical Sensitivities and Other Biomedically Unexplained Syndromes." International Workshop on Causes and Prevention of Agricultural and Environmental Diseases, Bangkok, Thailand, October 13, 2009.
34. "Changes in Indicators of Pulmonary Oxidative and Nitrosative Stress Following Drastic Changes in Air Pollution during the Beijing HEART Study", 4th International Conference on Oxidative/Nitrosative Stress and Disease sponsored by UMDNJ, New York Academy of Sciences, Rutgers, and NIOSH. New York, NY, October 28-30, 2009.
35. "The Beijing HEART Study: Study Hypotheses and Preliminary Results," HEI Annual Conference, Alexandria, VA, April 25-27, 2010.
36. Session Chair, Human Studies on Air Pollution and Cardiovascular Phenomena, 2010 NIEHS-EPA Symposium on Air Pollution and Cardiovascular Disease Cardiovascular Effects of Air Pollution— Focusing on Mechanisms, Seattle, WA, June 21, 2010.
37. "Alteration of Peripheral Blood Monocyte Gene Expression in Humans Following Diesel Exhaust Inhalation," 2010 NIEHS-EPA Symposium on Air Pollution and Cardiovascular Disease Cardiovascular Effects of Air Pollution—Focusing on Mechanisms, Seattle, WA, June 21, 2010.
38. "Genetic Susceptibility to Acutely Decreased Ubiquitin Proteasome Pathway (UPP) Activity Following Inhalation of Fresh Diesel Exhaust or Secondary Organic Aerosols" at the Annual meeting of International Society for Environmental Epidemiology, Seoul, S. Korea, Aug 29, 2010.
41. "Human Biomarkers of Air Pollution Effects: Observations from Piscataway to Peking" at Dept of Chemistry and Biochemistry, Queens College of CUNY, Queens, NY, November 8, 2010. "Traffic pollution and Biomarkers of Pulmonary Oxidative Stress in Healthy Humans" at International Society for Environmental Epidemiology, Barcelona, Spain, September 16, 2011.
42. "Air Pollution Health Effects, Mechanisms and Susceptibility: Observations from Piscataway to Peking" at the UMEA University, Department of Public Health and Clinical Medicine, Sweden on October 6, 2011.

43. "Air Pollution Health Effects, Mechanisms and Susceptibility: Observations from Piscataway to Peking" at the UMEA University, Department of Public Health and Clinical Medicine, Sweden, October 6, 2011.
44. Faculty Opponent for a PhD Defense: Respiratory and Cardiovascular Effects of exposure to oxidative air pollutants at Umea University, Department of Public Health and Clinical Medicine, Sweden on October 6, 2011.
45. Co-chaired symposium session entitled "From Inhaled Particles to Cardiovascular Disease and Toxicity: Evidence from Studies in Volunteers, Experimental Animals, and Cell-Based Systems", 2013 Annual Meeting of Society of Toxicology, San Antonio, TX on March 12, 2013.
46. "Acute Increases in Exhaled Breath Condensate NO Metabolites Suggests Oxidative Stress as a Mechanism for the Health Effects of Traffic-Related Pollutants" Annual Meeting of Society of Toxicology, San Antonio, TX on March 12, 2013
47. "Vascular Nitric Oxide Production in Diabetics and Controls Following Acute Traffic Pollution Exposure", Joint Conference of International Society of Environmental Epidemiology (ISEE), International Society of Exposure Science (ISES), (ISIAQ), Basel, Switzerland on August 19-23, 2013.
48. "Air Pollution in China: Mechanistic Observations from the 2008 Olympics and Comparison with the 2013 Disasters," invited speaker at Ponce School of Medicine, Ponce, Puerto Rico on February 6, 2014.
49. "Natural Experiments, Controlled Exposures, and Vascular Endpoints for Studies of Acute Effects of TRAPs". International Society for Environmental Epidemiology, Seattle, Washington, Wednesday, August 27, 2014.
50. "Indoor Air Quality and Health" at Chongqing University, School of Urban Construction and Environmental Engineering, Chongqing University, Chongqing, China on November 6, 2014.
51. "What Can Individuals do to Reduce Personal Risks from Air Pollution?" at Guangzhou Respiratory Institute, Guangzhou, China on November 8, 2014.
52. "Indoor Air Quality and Health" at School of Construction Management and Engineering, Reading University, United Kingdom on November 12, 2014.
53. "Air Pollution and Health" at Tsinghua University School of Architecture, Beijing, China, January 14, 2015.
54. "Acute Cardiac Events from Air Pollution: Searching for Mechanisms from Piscataway to Peking." Wood's Hole Saturday Morning Sessions. Wood's Hole, Massachusetts. August 4, 2007.
55. "Update on Cardiopulmonary Diseases Caused by Air Pollution: Deep Vein Thrombosis, Coronary Ischemia, & the Olympics," Division of Pulmonary and Critical Care Medicine, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, January 23, 2009.
56. "Understanding Environmental Health Effects: Epidemiological, Experimental, Clinical, and Translational Approaches. Mount Sinai School of Medicine, New York, June 29, 2010.
57. "Adverse Health Effects of Fungal Exposure: An Evidence-Based Assessment," invited presentation at the Rotary Club, Tom's River, NJ. February 7, 2013.
58. "Identifying Mechanisms of Air Pollution Toxicity: Peking Predicts Piscataway?" invited speaker at Yale University School of Public Health, Department of Environmental Health in Connecticut on October 17, 2013.
59. "Air Pollution in China: Recent Observations, Comparison to the US, and New Research Plans" invited lecturer for Pediatric Grand Rounds, Rutgers, Robert Wood Johnson Medical School, Piscataway, NJ on May 1, 2014.
60. "Cardiopulmonary Effects of Air Pollution: Human Experimental Studies from Peking to Piscataway," invited speaker at Sapienza University of Rome, Italy on May 28, 2014.
61. "Indoor Air Quality and Health" at Chongqing University, School of Urban Construction and Environmental Engineering, Chongqing University, Chongqing, China on November 6, 2014.

62. "What Can Individuals do to Reduce Personal Risks from Air Pollution?" at Guangzhou Respiratory Institute, Guangzhou, China on November 8, 2014.
63. "Indoor Air Quality and Health" at School of Construction Management and Engineering, Reading University, United Kingdom on November 12, 2014.
64. "Air Pollution and Health" at Tsinghua University School of Architecture, Beijing, China, January 14, 2015.
65. "When Outdoor Air Goes Indoors: Do Health Effects Follow?" Keynote address at 7th International Conference on Sustainable Development in Building and Environment, University of Reading, United Kingdom on July 28, 2015.
66. "Does Indoor Air Cause Lethal Health Problems and What Can We Do if it Does?" 8th International Conference on Sustainable Development in Building and Environment (SudBE), Chongqing University, Chongqing, China, November 5, 2017.
67. Use of Biomarkers across the IHSFC's, Core Centers Annual Meeting, NIEHS, University of California. Davis Conference Center, July 17, 2018.
68. "From SBS to Indoor PM: Symptoms, Signs and Interventions," International Indoor Air Quality Workshop, Taiwan, Republic of China, November 8, 2018.
69. "Epidemic MCS?" Marilyn B. Hoffman Foundation /Harvard T.H. Chan School of Public Health Symposium on Chemical Intolerance. Dallas, Texas. March 27, 2019.
70. "Problems with fixing your indoor air quality: Is CO<sub>2</sub> more than a greenhouse gas?" University of California at Berkeley, School of Public Health/Environmental Health Sciences, Berkeley, CA, October 25, 2019.
71. "Outside In: What do human experiments tell us about health effects of indoor air pollution". Public Health Week Symposium. New York Medical College. Department of Public Health. April 5, 2021.
72. "The overall (mostly cardiovascular) health burden of indoor PM<sub>2.5</sub> exposure". National Academies of Engineering, Medicine, and Science. Workshop on Indoor PM<sub>2.5</sub>. April 21, 2021.

## **B. Professional (Clinical)**

1. "Medically Unexplained Symptoms in the Workplace." Millennium Series at the American Occupational Health Conference (AOHC) in San Francisco, CA, April 24, 2001.
2. Panel Member and Speaker on "Clinical Medical Testimony" at the ALI-ABA Seminar on "New Directions in Expert Testimony" in San Francisco, CA, April 27, 2001.
3. "Toxicity and Disability", The Prudential Insurance Company of America, Parsippany, NJ, June 5, 2001.
4. Participant, Defining Susceptibility for Microbial Risk Assessment: A Dialogue, George Washington University, June 26-27, 2001.
5. Panel Member at the New Jersey Institute for Continuing Legal Education on "Admitting Scientific & Expert Testimony: Getting Past the Gatekeeper," January 26, 2002.
6. Participant, Tremolite Asbestos Registry (TAR) Expert Work Group, ATSDR, Atlanta, Georgia, February 13-14, 2002.
7. "Medically Unexplained Symptoms and Syndromes in the Workplace" at the American Occupational Health Conference (AOHC) in Chicago, IL, April 17, 2002.
8. Invited Speaker on "Indoor Air Quality and Multiple Chemical Sensitivity" at Association of Trial Lawyers of America (ATLA) Boardwalk Seminar 2002, Workers' Compensation Seminar, Atlantic City, NJ, April 26, 2002.
9. Grand Rounds speaker on "Research update on Medically Unexplained Symptoms and the Environment", Yale Occupational Medicine, New Haven, CT, November 26, 2002.
10. Grand Rounds Speaker on "Medically Unexplained Symptoms in Primary Care" at the WarRelated Illness and Injury Study Center, DVA NJ Health Care System, East Orange, NJ on December 11, 2002.

11. Consultant on Multiple Chemical Sensitivities for US Department of Justice, Civil Rights Division, Disability Right Section, December 16, 2002.
12. Invited Speaker on "Current Health Problems and Future Concerns from the WTC Fallout and Experience" at the Pulmonary Care Symposium, sponsored by Pinnacle Health Systems, Harrisburg, PA, February 28, 2003.
13. "Cancer Clusters and Work" Rutgers Preparatory Academy, March 3, 2003.
14. "Bell's Palsy and Work" Johnson and Johnson, Raritan, NJ, March 12, 2003.
15. Invited Speaker on "Need for Environmentally Oriented Health Research and Services in Lower Manhattan." American Red Cross. September 11 Recovery Program. New York Community Trust, March 11, 2003.
16. Medically Unexplained Symptoms and the Environment: the World Trade Center Disaster, New York University, Graduate Seminar, New York, NY, April 7, 2003.
17. Grand Rounds Speaker on "Update on Common Occupational Illnesses." Janssen Pharmaceutica, Titusville, NJ, April 10, 2003.
18. Invited Speaker on "Medically Unexplained Symptoms and Syndromes in the Workplace" at the Puget Sound Occupational and Environmental Medicine Grand Rounds. University of Washington, Seattle, WA, May 21, 2003.
19. On-air Discussion on "What do you need to know about mold" at WCTC Radio Station on May 25, 2003.
20. Television Interviews by NBC-4 New York and CN-8 (Comcast Cable Network) on 9-11 anniversary, Sept 11, 2003.
21. "The Biology, Psychology and Sociology of Non-Specific Syndromes, ACOEM State of the Art Conference, Toronto, Canada, October 15, 2003.
22. Grand Rounds speaker on "Occupational Asthma", UMDNJ-NJMS, Division of Allergy, Newark, NJ, March 18, 2004.
23. "When the Dose is Low and the Response is Not - Multiple Chemical Sensitivity, Chronic Fatigue Syndrome and Similar Disorders" at IMX Symposium, Philadelphia, PA, May 19, 2004.
24. Invited Participant, 2nd Jack Pepys Occupational Asthma Workshop, Toronto, Canada, May 21-22, 2004.
25. "Medically Unexplained Symptoms and the Environment," Psychiatry Grand Rounds, State University of New York, Stony Brook, NY, October 26, 2004.
26. "Health Effects of Diesel Exhaust," Sixth Annual Women In Science Symposium, Environmental and Occupational Health Sciences Institute (EOHSI), Piscataway, NJ, November 12, 2004.
27. "Particulate Air Pollution and Myocardial Infarction: Explaining the Connection," New Jersey Clean Air Council, Trenton, NJ, April 13, 2005.
28. "Overview of Human Exposure Experimentation", Ethics of Human Experiments Session, American Occupational Health Conference (AOHC), Washington, DC, May 2, 2005.
29. "Particle Exposures and Cardiopulmonary Disease Gene-Environment Interactions" ACOEM, SOTAC, Chicago, IL, October 29, 2005.
30. "Diesel Exposures and Cardiopulmonary Disease Gene-Environment-Stress Interactions" International Symposium Toxicology of Nanomaterials: Biomedical Aspects, Miami, FL, January 30, 2006.
31. "Does Air Pollution Cause MI's," Medical Grand Rounds, Department of Medicine, Mountainside Hospital, Montclair, NJ, February 23, 2006.
32. "Does Air Pollution Cause MI's," 4th Annual NJSRC Spring Lecture Series, New Jersey Hospital Association, Princeton, NJ, April 5, 2006.
33. "Air Pollution and Myocardial Infarction: Causal Association and Mechanisms," Medical Grand Rounds, Yale Occupational and Environmental Medicine Program, New Haven, CT, June 6, 2006.
34. "How Does Indoor Air Pollution Kill Us: Looking for Clues," Philadelphia Occupational and Environmental Medicine Society (POEMS), Bala Cynwyd, PA, December 13, 2006.

35. "Air Pollution and Health," Dartmouth Medical School, Public Health Program, Lebanon, NH, March 1, 2007
36. "Medically Unexplained Systems and the Environment," Grand Rounds, Dartmouth Medical School, Lebanon, NH, March 2, 2007.
37. Expert Panel Member, "A Toxic Tort Hypothetical," Sciences for Judges IX, Brooklyn Law School, Center for Health, Science and Public Policy, Subotnick Center, 11th Floor, Brooklyn, NY, April 13, 2007.
38. "Acute Cardiac Events from Air Pollution," Occupational and Environmental Medicine Association of New Jersey, Princeton, NJ. November 13, 2007.
39. "Acute Health Effects from Air Pollution: Searching for Mechanisms from Piscataway to Peking" Clinical Research and Occupational Medicine Grand Rounds, EOHSI, Piscataway, NJ, February 5, 2008.
40. "Health Effects of Indoor Fungal Exposure: An Evidence-Based Assessment" at Piscataway Health Advisory Commission, Piscataway, NJ, October 12, 2011.
41. "Asthma: Environmental & Occupational Contributions to Etiology" at Allergy and Immunology Grand Rounds, UMDNJ-New Jersey Medical School, Newark, NJ on April 26, 2012.
42. "9/11 and 8/08: Providing Insights on Respiratory and Inflammatory Effects of Air Pollution," at the Department of Medicine Grand Rounds at the University of Hawaii on October 30, 2012.
43. "Autonomic Nervous system as a Target Organ," invited course lecturer, Occupational and Environmental Factors and Neurologic Disease and Occupational and Environmental Medicine, at the University of California San Francisco, California on November 1, 2012.
44. "Update on the Cardiac Effects of Particle Air Pollution in China: Recent Observations, Comparisons to the US, and Research Plans" at the Regional Occupational Medicine Conference: New Jersey, New York, and Pennsylvania, in New Brunswick, NJ on October 18, 2014.
45. "Urban Air Pollution in China: What can be done to Reduce the Health Impact? U.S. State Department Workshops: Combating Air Pollution in Northern India. Jaipur, India, May 30, 2016.
46. "Urban Air Pollution in China: What can be done to Reduce the Health Impact? U.S. State Department Workshops: Combating Air Pollution in Northern India. Lucknow, India, June 1, 2016.
47. "Cardiovascular Disease and Air Pollution", United Nations Academic Impact Meeting: Our Environment & Our Health: Science and Solutions. New York, NY, June 6, 2016.
48. "Research in Chongqing, China and Reading, UK", Rutgers University 2016 International Research Conference, New Brunswick, NJ, July 20, 2016.
49. "Who is Vulnerable to the Deadly Effects of Air Pollution? Observations from Peking to Piscataway" Society of Toxicology MASOT Fall Scientific Meeting, Edison, NJ, October 27, 2016.
50. "The Deadly Effects of Air Pollution and What We Can Do About Them: Observations from Peking to Piscataway," University of Science and Technology at Beijing, Beijing China, November 9, 2017
51. Discussant, "The Role of the Home Environment in Pediatric Respiratory Disease: A Case Presentation and Discussion", American Thoracic Society Podcast, Published February 6, 2018. <https://www.thoracic.org/about/ats-podcasts/role-of-the-home-environment-in-pediatricrespiratory-disease.php>
52. "The CEED IHSFC," Environmental Health Sciences Core Centers Webinar Series, April 6, 2018
53. "Lung Cancer and Mesothelioma". Post-graduate Course. American Thoracic Society, San Diego, CA. May 18, 2018.
54. "Environmental Health for Environmental Engineers" (16 hours). University of Science and Technology, Beijing. Beijing, China. January 21-January 28, 2019.

55. "Update on the Health Effects of Air Pollution: Recent Observations and the Indoor Frontier". University of Indonesia, Faculty of Medicine. Jakarta, Indonesia. February 4, 2019.
56. "Dust-related Malignancy". University of Indonesia. 16th Scientific Respiratory Medicine Meeting 2019 (PIPKRA). Jakarta Indonesia, February 5, 2019.
57. Co-chair. Workshop Session: Strategies to Mitigate the Health Impacts of Air Pollutants
58. "Personal Solutions to Air Pollution: What Does the Evidence Recommend?" Society of Toxicology Annual Meeting, Baltimore Maryland, March 12, 2019.
59. Does Indoor Air Cause Lethal Health Problems and What Can We Do if it Does? Nichols School of the Environment. Duke University, Durham North Carolina, April 18, 2019.
60. "Commuting and Climate Change". Northampton County Climate Summit, Lehigh University, Bethlehem PA. May 15, 2019.
61. "Principles of Pulmonary Toxicology." CounterACT Annual Symposium, New York Academy of Sciences, New York, NY. June 18, 2019.
62. "Outside Goes Inside: How Does Air Pollution Hurt Us and What Can Clinicians Do About It?" Division of Occupational Medicine Grand Rounds, Department of Environmental Medicine and Public Health, Icahn School of Medicine at Mount Sinai, New York, New York, September 25, 2020.
63. "Outside in: What do human experiments tell us about how air pollution hurts us." National Public Health Week: Building Bridges to Better Health at New York Medical College. Virtual Event, April 5, 2021.