CURRICULUM VITAE

Date Prepared: October, 2015

NAME: Howard Hu

35 Boswell Avenue, Toronto, ON; M5R 1M5, Canada **HOME ADDRESS:**

PRIMARY AFFILIATION: Dalla Lana School of Public Health, University of Toronto

MAIL/CONTACT: Howard Hu, M.D, M.P.H., Sc.D.

Office of the Dean, Health Sciences Building

Dalla Lana School of Public Health, University of Toronto

155 College Street, 6th Floor Toronto, ON. M5T 3M7

Tel: 416-978-1741 Fax: 416-978-1883

Email: howard.hu@utoronto.ca

WEBSITE: www.dlsph.utoronto.ca

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EDUCATION:

9/1973-6/1976Biology	B.Sc.	Brown University
9/1977-6/1982 Medicine	M.D.	Albert Einstein College of Medicine
9/1979-6/1980 (degree in 6/1982*)	M.P.H. (Occ Hl	th)Harvard School of Public Health
9/1985-6/1986Epidemiology	M.S.	Harvard School of Public Health
7/1986-6/1990 Epidemiology	Sc.D.	Harvard School of Public Health

^{*} At Harvard, awarding of the M.P.H. to medical students is delayed until the M.D. degree is conferred

POSTDOCTORAL TRAINING:

Research Fellowships

7/1987-6/1988 Occupational Health Research Fellow, Dept. of Environmental Health Harvard School of Public Health

Internship and Residencies

7/1982-6/1983 Intern in Medicine	Boston City Hospital
7/1983-6/1984 Junior Assistant Resident, Intern	al Medicine Boston City Hospital
7/1984-6/1985 Senior Assistant Resident, Interr	nal Medicine Boston City Hospital
7/1985-6/1987 Resident, Occupational Medicin	e Harvard School of Public Health

CERTIFICATION AND LICENSURE:

1984	Massachusetts License Registration
1985	American Board of Internal Medicine, Diplomate
1987	American Board of Preventive Medicine, Diplomate (Occupational Medicine)
2006	Michigan License Registration
2013	College of Physicians & Surgeons of Ontario

ACADEMIC APPOINTMENTS:

9/1988-6/1992	Instructor in Medicine
	Department of Medicine, Harvard Medical School
9/1988-6/2006	Associate Physician (Clinical and Research), Channing Laboratory,
	Department of Medicine, Brigham & Women's Hospital
9/1990-6/1994	Assistant Professor of Occupational Medicine
	Department of Environmental Health, Harvard School of Public Health
7/1992-6/1997	Assistant Professor of Medicine

	Department of Medicine, Harvard Medical School
7/1994-6/2002	Associate Professor of Occupational Medicine
	Department of Environmental Health, Harvard School of Public Health
7/1997-8/2006	Associate Professor of Medicine
	Department of Medicine, Harvard Medical School
7/2002-8/2006	Professor of Occupational and Environmental Medicine (tenured)
	Department of Environmental Health, Harvard School of Public Health
9/2006-6/2012	Chair and Professor of Environmental Health Sciences (tenured), Department of
	Environmental Health Sciences, University of Michigan School of Public Health
9/2006-8/2009	Adjunct Professor of Occupational and Environmental Medicine
	Department of Environmental Health, Harvard School of Public Health
9/2006-6/2012	Research Associate Physician, Channing Laboratory, Department of
	Medicine, Brigham & Women's Hospital
5/2007-2012	Professor of Epidemiology, University of Michigan School of Public Health
5/2007-2012	Professor of Internal Medicine, University of Michigan Medical School
1/2009-2012	NSF International Endowed Department Chair, University of Michigan School of
	Public Health
7/2012- 2013	Director and Professor of Environmental Health, Epidemiology and Global Health
	(tenured) Dalla Lana School of Public Health, University of Toronto, Toronto,
	Ontario, Canada
7/2012-	Professor, School of Medicine, University of Toronto, Toronto, Ontario, Canada
7/2012-	Adjunct Professor, Department of Environmental Health Sciences, University of
	Michigan School of Public Health
7/2013-	Founding Dean, Dalla Lana School of Public Health, a Faculty of the University
	of Toronto, Toronto, Ontario, Canada

ADMINISTRATIVE APPOINTMENTS:

- 7/1991-6/2006 (Founding) Director, Metals Epidemiology Research Group, Channing Laboratory, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, and Department of Environmental Health, Harvard School of Public Health
- 7/1992-6/1995 Director, Commission to Investigate the Health and Environmental Effects of Nuclear Weapons Production, International Physicians for the Prevention of Nuclear War
- 7/1996-6/2006 Director, Residency Program in Occupational and Environmental Medicine, Harvard School of Public Health
- 7/1996-8/2006 Director, Occupational and Environmental Medicine Core, National Institute for Occupational Safety and Health Educational Resource Center at the Harvard School of Public Health
- 7/1998-6/2004 (Founding) Medical Editor, Environmental Health Perspectives (official journal of NIEHS)
- 7/2000-8/2006 Associate Director, the Harvard NIEHS Environmental Sciences Center, Harvard School of Public Health
- 7/2004-6/2009 (Founding) Principal Investigator and Director, Harvard Center for Children's

- Environmental Health and Disease Prevention Research (co-PI and co-Director after 9/1/08)
- 9/2006-6/2012 Chair, Department of Environmental Health Sciences, University of Michigan School of Public Health
- 9/2006-2012 Director, Occupational Epidemiology Core, NIOSH Education and Research Center, University of Michigan
- 9/2006-2012 Co-Director, Michigan-Harvard/Harvard-Michigan Metals Epidemiology Research Group
- 7/2009-2011 Director, NIA T32 Training Grant in Aging and Public Health, University of Michigan School of Public Health
- 1/2010-2012 Chair, Faculty Steering Committee on Global Health, University of Michigan School of Public Health
- 4/2011-2012 (Founding PI) and Director, University of Michigan NIEHS P30 Core Center.
- 7/2012-2013 Director, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada
- 7/2013- Founding Dean, Dalla Lana School of Public Health, a Faculty of the University of Toronto, Toronto, Ontario, Canada

CLINICAL APPOINTMENTS:

- 7/1985-6/1987 Attending Physician, Emergency Department., Whidden Memorial Hospital
- 7/1985-6/1988 Assistant Visiting Physician, Department of Medicine, Boston City Hospital
- 1/1985-6/2006 Consultant in Occupational and Environmental Medicine, Center for Occupational and Environmental Medicine, Northeast Specialty Hospital (formerly known as the Olympus Specialty Hospital, the Massachusetts Respiratory Hospital, and Norfolk County Hospital).
- 3/1987-9/1987 Attending Physician, Occupational Health Program, University Hospital/Boston University Medical Center
- 7/1988-9/2006 Associate Physician, Brigham and Women's Hospital
- 7/1990-6/1995 Occupational/Environmental Medicine Consultant, Brigham and Women's Hospital Employee Health Services
- 7/2007-2012 Associate Physician, Division of General Medicine, Department of Medicine, University of Michigan Health System
- 2013- Associate Physician, St. Michael's Hospital, Toronto, ON

OTHER ACADEMIC POSITIONS and MAJOR VISITING APPOINTMENTS:

- 7/1987-6/1990 Visiting Physician, South Cove Health Center, Boston (Chinatown)
- 7/1996-8/2006 Associate, Center for Health and the Global Environment, Harvard Medical School
- 2/1997 Alice Hamilton Visiting Professor, Division of Occupational and Environmental Medicine, Department of Medicine, University of California at San Francisco
- 11/2000- Visiting Scientist, Sri Ramachandra Medical College and Research Institute
- 7/2010- Senior Consultant, Tianjin Centers for Disease Control and Prevention, Tianjin,

China

10/2012- Visiting Professor, Shanghai Key Laboratory of Children's Environmental Health,

Xinhua Hospital, Shanghai Jiao-Tung University, China

05/2015- Affiliate Scientist to the Li Ka Shing Knowledge Institute, St. Michael's Hospital,

Toronto, Canada

MAJOR RESEARCH INTERESTS:

- 1. Epidemiologic and toxicologic research related to heavy metals, potential endocrine disruptors
- 2. Gene-environment interactions; epigenetic dysregulation
- 3. Fetal exposures and long-term effects
- 4. Aging-environment interactions
- 5. Environmental health and human rights
- 6. Health and the global environment
- 7. Multiple chemical sensitivities syndrome

GRANTS (as PI, Co-PI, or primary mentor only):

Past Funding:

1980 (summer)Montefiore Hospital, Bronx NY, PI; \$2,000 (approx)

A study of rural and occupational health in Tulua, Colombia, South America

1982 (summer) Albert Einstein College of Medicine, PI; \$3,000 (approx)

A study of occupational/environmental health in Shanghai, China

7/1987-6/1989 NIEHS Center Grant ES00002 Pilot Project, PI; \$12,000

The Long-term Renal and Neurologic Effects of Childhood Plumbism

7/1989-6/1990 NIEHS subcontract 7083-1, PI; \$50,000 (approx)

The Use of X-Ray Fluorescence to Measure Lead Burden and Childhood Lead Exposure

7/1990-6/1992 Agency for Toxic Substances and Disease Registry, PI; \$150,000 (approx)

"Clinical Environmental/ Occupational Medicine Research Fellowship Award",

7/1990-6/1991 NIEHS Center Grant ES00002 Pilot Project, PI; \$12,000

The Metabolic Effects of Pregnancy and Lactation on Lead Burden

7/1990-6/1991 Harvard School of Public Health Basic, PI

Research Support Grant; \$10,000

K-X-Ray Fluorescence Measured Lead Burden

10/1991-11/1991 NIOSH Special Grants, PI; \$50,000 (approx)

The Carpenters Lead Project

4/1991-3/1996NIEHS/R01, PI; \$2,200,000 (approx)

The Epidemiology of Lead, Diet and Blood Pressure

7/1991-6/1996 NIEHS/R01 supplement, PI; \$240,000 (approx)

The Epidemiology of Lead, Diet and Blood

Pressure--Research Supplement for Minority Investigator

7/1992-6/1995 NIEHS/R01 (Office of Research on Women), PI; \$200,000 (approx) Lead and Hypertension in Women

7/1993-6/1996 NIEHS/subcontract, PI; \$150,000 (approx)

Exposure to Neurotoxins as Risk Factors for Amyotrophic Lateral Sclerosis

- 7/1995-6/1998 State of Washington, Department of Labor, PI; \$350,000 (approx) SPECT Imaging of the Brain in Patients with Multiple Chemical Sensitivity Syndrome and Controls
- 7/1996-6/1997 NIEHS Center Grant ES00002 Pilot Project, PI; \$15,000
 Electrocardiographic abnormalities in association with low-level lead exposure among middle-aged to elderly men: the Normative Aging Study
- 4/1995-3/2000 NIEHS Project PI (Program Project PI: Richard Monson); \$1,800,000 (approx) Lead Exposure, Accumulation in Bone, and Reproductive Toxicity Among Men and Women In Mexico
- 4/1995-3/2000 NIEHS Project PI (Program Project PI: Richard Monson); \$1,900,000 (approx) Lead Exposure, Accumulation in Bone, and Cognitive Toxicity Among Elderly Men and Women
- 6/1997-5/2002 NIEHS/R01 ES05257 PI; \$2,312,274

Lead Biomarkers, Aging, and Chronic Disease

7/1997-6/1999 NIEHS Center Grant ES00002 Pilot Project, PI; \$10,000

The effect of genetic polymorphisms of metallothionein-IIA on mRNA levels in middle-aged to elderly men: the Normative Aging Study

- 7/1998-6/2003 NIEHS/R01 PI (with no-cost extension; 5R01ES007821); \$2,291,833 Lead Dose Biomarkers, Reproduction, and Infant Outcomes
- 7/1999-6/2000 NIEHS Center Grant ES00002 Pilot Project, co-PI; \$14,000

 Magnetic Resonance Spectroscopy in the Evaluation of Lead Neurotoxicity: the Normative Aging Study
- 7/2000-6/2001 MAVERIC (Massachusetts Area Veterans Epidemiology Resource and Institute Center) Pilot Project PI (with Dr. Robert Wright, co-PI); \$10,000

 The Use of Magnetic Resonance Spectroscopy in Lead Poisoning
- 7/2000-6/2001 NIOSH Center Grant Pilot Project, PI (with Dr. Robert Wright, co-PI); \$12,000 Interaction between ApoE Genotype and Lead Exposure in the Development of Cognitive Impairment
- 7/2002-6/2004 The Rasmussen Foundation/Health Care Without Harm; \$50,000 Medical Use of Phthalate Containing Products in the Neonatal Intensive Care Unit and Biomarkers of Neonatal Phthalate Metabolites
- 7/2002-6/2003 NIEHS Center Grant Pilot Project, PI; \$8,000

Vitamin D Receptor Gene and Bone Lead in Reproduction

3/2004-2/2005 The Critelli Family Foundation; \$10,000

Review of Environmental Cadmium Exposure and Toxicity

4/2000-3/2007 NIEHS Project Leader (Program Project PI: Richard Monson; 5P01ES05947); \$2,472,677; Controlled Trial in Pregnancy of Dietary Supplements for the

- Suppression of Bone Resorption and Mobilization of Lead into Plasma (no cost extension)
- 4/2000-3/2007 NIEHS Project co-Leader (Program Project PI: Richard Monson; 5P01ES05947); \$1,210,000 (approx); A Community-Based Study of Lead Exposure Pathways, Biomarkers of Dose, Health Effects, and Phytoremediation Strategies at the Tar Creek Superfund Site (no cst extension)
- 4/2002-9/2007 NIEHS/R01 PI (5R01ES010798); \$3,011,295

Gene-Metal Interactions and Parkinson's Disease

- 10/2003-9/2007 NCMHI/P20 Project Leader (MD000501-01; Hughes Harris, PI); \$828,781(Project) "FAMU and Harvard Center for Health and Health Care Disparities"
- 8/2003-7/2008 NIEHS/R01 PI (2R01ES05257-11A2); \$3,357,424 (bécame co-PI in 2007 after move to University of Michigan)
 - Lead-Gene Interactions and Cognition
- 6/2004-3/2009 NIEHS/P01 PI (5 P01ES012874-01); \$6,662,670 (became co-PI in 2006 after move to University of Michigan)

 Metals Mixtures and Children's Health (Center for Children's Environmental Health
 - and Disease Prevention Research)
- 7/2002-12/2009 NIH/R03 PI (1R03TW005914; no cost ext through 2008); \$192,000 (approx) Lead, Genes, and Cognition in Children in Chennai, India
 - 9/2006-7/2011 NIEHS/R01 PI (R01ES0007821); \$3,116,831

Fetal Origins of Neurobehavior: Lead and Cholesterol Metabolism Interactions

- 7/2006-6/2011 NIEHS/R01 co-PI (R01ES013744; PI Wright), \$3,200,000 Stress, Lead, Iron Deficiency and Neurodevelopment
- 7/2006-6/2011 NIEHS/R01 co-PI (RO1ES014930; PI Wright), \$2,800,000 Metal Mixtures and Neurodevelopment
- 2/2008-2/2010 Michigan Institute for Clinical and Health Research (MICHR; home of the UM CTSA; UL1RR024986) Pilot Project PI; \$26,000 (no cost extension) Epigenetics of Early Life Events and Environmental Toxicants
- 4/2009-4/2010 Michigan Alzheimer's Disease Research Center Pilot Project PI, \$25,000 Environment, Epigenetics and Alzheimer's Disease (no cost extension)
- 12/2009-12/2010 University of Michigan Center for Global Health Pilot Project PI, \$25,000 Climate Variability and Impacts on Mortality and Morbidity in Chennai, India: A Pilot Project Stemming from the 2009 U.S.-India Workshop on Climate Change and Public Health, Goa India (no cost extension)
- 9/2009-9/2010 Michigan Institute for Clinical and Health Research (MICHR; home of the UM CTSA; UL1RR024986) Pilot Project PI; \$26,000 (no cost extension) Epigenetics and Epigenomics in the Etiology of Alzheimer Disease
 - 7/2008-6/2011 NIA/T32 PI (T32AG027708); \$450,000

Interdisciplinary Training Program in Aging and Public Health

4/2010-3/2015 NIEHS P42 Superfund Co-Inv, Project 2, Co-investigator (P42ES017198; PI: Alshawabkeh, Project 2 Leader: Meeker) Puerto Rico Testsite For Exploring Contaminant Threats, \$12,000,000

4/2010-3/2014 NIEHS/EPA P20 Co-PI and Clin Health Specialist (P20 ES018171; PI Peterson)
Formative Children's Environmental Health and Disease Prevention Center,
\$1,959,960; "Perinatal Exposures, Epigenetics, Child Obesity & Sexual Maturation"
7/1/2013-6/30/2014 CIHR, Canadian Institute for Health Services and Policy Research; Planning
Grants-Priority Announcement:Partnerships for Health System Improvement; PI, \$24,992
"The Surviving Opioid Overdose with Naloxone (SOON) Project and Roundtable"

Current Funding

4/1/2011-6/2015 NIEHS Core Center PI (until 2012; now consultant; P30 ES017885), \$4,620,100; "Lifestage Exposures and Adult Disease"

6/1/2012-3/30/2017 1R01ES021446-01, PI, \$3,840,000;

"Prenatal and Childhood Exposure to Fluoride and Neurodevelopment"

7/1/2012-7/1/2016 European Commission (EC), Funded under FP7-Health, Project 304925, co-investigator, \$6,000,000 E

"A novel micronutrient-based strategy to prevent hearing impairments: test and road to market for age-related hearing loss and preservation of residual hearing"

5/15/2015-5/15/2018 Health Canada; PI, \$200,000 (Phase 1); \$1,400,000 (Phase 2)

"A Community-based First Nation Study of Cancer and the Environment in Northern Ontario"

Amended Application In Progress

R01ES007821-11, multiple PI, \$4,800,000;

Early Life Toxicants and Cardiovascular Outcomes" (priority score 27 by CASE Study section; 25th percentile)

R01ES020241-01, PI, \$3,936,907;

"Alzheimer's Disease, Epigenomics, and the Environment"

HONORS AND AWARDS:

1978-1982 National Health Service Corps Scholarship

1985-1988 National Research Service Award

1990-1992 Agency for Toxic Substances and Disease Registry Clinical Environmental Medicine Award

Will Solimene Award of Excellence, American Medical Writers Association, for: Chivian E, McCally M, Hu H, Haines H, eds. *Critical Condition: Human Health and the Environment*. Cambridge: The MIT Press, 1993.

1997 Alice Hamilton Lecturer, University of California at San Francisco

1998 First Prize for Best Infant Nutrition Research, Instituto Danone, Mexico (for González-

Cossío T, Peterson KE, Sanín L, Fishbein SE, Palazuelos E, Aro A, Hernández-Avila M,
Hu H. "Decrease in birth weight in relation to maternal bone lead burden." Published in
Pediatrics)

- National Institute for Environmental Health Sciences "Progress and Achievement of the Year Award", 1998-1999
- 1999 True Memorial Lecturer, Maine Medical Center, Portland ME.
- 2000-2001 Faculty Sabbatical Award, Harvard School of Public Health
- 2000-2001 Senior Fulbright Scholar in India
- Hoopes Prize, Faculty Mentorship (for Senior Thesis of Charles Lin, "More than Black and White: Lead Poisoning as an Environmental Justice Issue in Boston")
- Best Paper in Preventive Medicine by a Medical Student (for Senior Thesis of Vanitha Janakiraman; Janakiraman V, Hu H, Mercado-Garcia A, Hernandez-Avila M. A randomized crossover trial of nocturnal calcium supplements to suppress bone resorption during pregnancy. Am J Prev Med 2003;24:260-4.). American College of Preventive Medicine, Ulrich and Ruth Frank Foundation for International Health.
- Das Travel Grant Award, The South Asia Initiative, Harvard University (for Travel in India)
- Adolph G. Kammer Merit in Authorship Award, the American College of Occupational and Environmental Medicine (for Rhodes D, Spiro A, Aro A, Hu H "Relationship of Bone and Blood Lead Levels to Psychiatric Symptoms: The Normative Aging Study", Published in the *Journal of Occupational and Environmental Medicine*)
- Teacher of the Year Award, Occupational/Environmental Medicine Residents, Harvard School of Public Health
- Harriett Hardy Award, the New England College of Occupational and Environmental Medicine
- 2009 Linus Pauling Award for Lifetime Achievements, American College for the Advancement of Medicine
- Nomination to the Institute of Medicine, National Academy of Sciences (not elected this round)
- 2011 Award for Excellence, American Public Health Association
- John R. Goldsmith Award for Outstanding Contributions to Environmental Epidemiology, International Society for Environmental Epidemiology

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Memberships

1981- American Public Health Association (APHA)

1982-2006 Massachusetts Coalition for Occupational Safety and Health

1983-1989 American College of Physicians

1985- Physicians for Social Responsibility

1987- Physicians for Human Rights

1990- International Society for Environmental Epidemiology (ISEE)

1990-2000 American Association for the Advancement of Science

1990-2006 Association of Occupational and Environmental Clinics (AOEC)

1991- International Physicians for the Prevention of Nuclear War (IPPNW)

1994-1996 Society for Occupational and Environmental Health (SOEH)

2000-2012 American College of Occupational and Environmental Medicine (ACOEM)

2009-2012 Society of Toxicology

2012- Canadian Public Health Association (CPHA)

Committee Assignments

1981-1982 Program Committee, Occupational Safety and Health Section, APHA

1987-1988 Program Committee, Asian-American Caucus, APHA

1992-1998 Membership Committee, ISEE

1995-1998 Quality Assurance Committee, AOEC

1997-1998 Program Committee, 1998 Superfund Basic Research Program, Annual National Meeting

2001-2006Program Committee, New England College of Occupational and Environmental Medicine Annual Meetings

EDITORIAL POSITIONS AND BOARDS:

1977-1982 Einstein Community Health Newsletter

1988-1992 Bookreview Co-Editor, Section on Occupational Safety and Health, Am Public Health Assoc.

1993- Journal of Health and Human Rights

1998- Environmental Health Perspectives (Founding Medical Editor, 1998-2004; Associated Editor, 2004-)

2004- American Journal of Industrial Medicine

2007-2009 Faculty of 1000 Medicine

PEER REVIEW SERVICE

American Journal of Epidemiology

American Journal of Industrial Medicine

Archives of Environmental and Occupational Health

Biomed Central

Circulation

Environmental Health

Environmental Health Perspectives

Environmental Research

Epidemiology

Indian Journal of Medical Research

Journal of Health and Human Rights

Journal of the American Medical Association

Kidney International

Lancet

New England Journal of Medicine

Pediatrics

TEACHING:

1. LOCAL CONTRIBUTIONS (at the Harvard School of Public Health, 1985-2006)

1985-	"Toxicology of the Kidney and Urinary Tract"
1705	Guest Lecturer for TOX204a,b
1988-	"Occupational Health"
1700	Guest Lecturer for EH201a,b
1989-1992	"Lead Toxicology"
1,0,1,,2	Guest Lecturer for TOX204a,b
1990-	Grand Rounds in Occupational/Environmental Medicine
1,,,,	Director
1990-2000	Introduction to Occupational and Environmental Medicine (EH232c,d)
1990 2000	Course director, lecturer
1990-	"The Epidemiology of Lead Exposure, Dose, and Toxicity"
	Guest Lecturer for EPE215c,d and EPE215t
1990-	"Solvent toxicity"
	Fundamentals of Industrial Hygiene, Continuing Education Department
1992	"Current Research on Lead", Metals Epidemiology Research Group Seminar
	Presenter
1992	"Lead Poisoning Without a Known Source in a Hyperthyroid Patient"
	Case discussant, Grand Rounds in Occupational and Environmental Medicine
1992-	"Biological Markers of Lead Dose"
	Guest Lecturer, EHE280c,d
1994-	"Screening for Lead Toxicity"
	Guest lecturer, EPI227d
1994-	"Lead Exposure and Biological Monitoring"
	Guest Lecturer, ID263b
1994-	"Case Study: Lead"
	Guest Lecturer and Case Discussant, EH202d
1996-	Introduction to Environmental Health (EH201b)

CV: Howard Hu, M.D., M.P.H., Sc.D.

Course director and lecturer

1997- <u>Human Health and Global Environment Change (EH278a,b)</u> Course Co-developer, Co-director, and lecturer

Hospital courses and Invited Teaching Presentations (Harvard-affiliated Hospitals)		
1990	Guest Lecturer on Occupational Medicine	
	Residency Program, Department of Medicine, Brigham and Women's Hospital	
1994	Speaker, Grand Rounds; "Is Lead a Ticking Time Bomb?"	
	Department of Obstetrics and Gynecology, Brigham and Women's Hospital	
1994	Speaker, Grand Rounds; "Is Lead a Ticking Time Bomb?"	
	Department of Medicine, Brockton V.A. Hospital	
1994	Speaker, Symposium on Preventive Medicine and Clinical Epidemiology,; "Is Lead a	
	Ticking Time Bomb"; Brigham and Women's Hospital	
1995	Discussant, "Multiple Chemical Sensitivity", Occupational/Environmental Medicine	
	Grand Rounds, Occupational Health Program, Harvard School of Public Health	
1996	Guest lecturer, "Lead Toxicity as a Paradigm for a Regional and Global Health	
	Hazard", Environmental Health Student Group, Holmes Society, Harvard Medical	
	School	
1997	Speaker, "Mobilization of maternal bone lead as a hazard to the fetus", Grand	
	Rounds, Dept. of Neonatology, Beth Israel Hospital, Boston, MA	
2000	Guest lecturer, "Update on Lead Toxicity Research", Program in Pediatric	
	Toxicology, Children's Hospital	
2000	Discussant, "Adult Lead Toxicity", Weekly Case Round, Department of Medicine,	
	Brigham and Women's Hospital, Boston.	
2000	Lecturer, "Update on Lead Toxicity, Hypertension, and Chronic Renal Failure", Renal	
	Rounds, Division of Nephrology, Department of Medicine, Brigham and Women's	
	Hospital, Boston.	
2002	Lecturer, "Maternal Bone Lead as a Threat to Fetal Development", Program in	
	Neonatology, Beth Israel-Deaconness Hospital, Boston, MA	

Doctoral student committees

Chair and member:

Dr. Rokho Kim Dr.P.H. Occupational Health and Epidemiology, '96

Dr. Yawen Cheng Sc.D. Epidemiology, '98
Dr. Sharon Tsaih Sc.D. Epidemiology, '99
Dr. Hung Yi Chuang Sc.D. Occupational Health, '99
Dr. Adrienne Ettinger Sc.D. Environmental Health, '03
Dr. Florence Wang Sc.D. Environmental Health, '05
Dr. Sung K. Park Sc.D. Environmental Health, '05
Dr. Pradeep Rajan, Sc.D. Occupational Health, '06

Member/Advisor:

Dr. How Ran Guo Sc.D. Occupational Health, '94

Dr. Joshua Cohen Sc.D. Health Policy and Management, '94

Dr. Jane Hoppin Sc.D. Environmental Health, '95 Dr. Salma Elreedy Sc.D. Environmental Health, '97 Dr. Mary Jean Brown Sc.D. Maternal and Child Health, '00

Dr. Brisa Sanchez Sc.D. Biostatistics, '06

Dr. Ami Zota Sc.D. Environmental Health, '07 Dr. Ananya Roy Sc.D. Environmental Health, '08 Dr. Elissa Wilker Sc.D. Environmental Health, '09

Post-doctoral fellow mentor:

Dr. Marinelle Payton (Channing Lab), Dr. Susan Korrick (Channing Lab), Dr. Rokho Kim (Channing Lab), Dr. Viji Potula (HSPH Research Fellow), Dr. Barbara Nowak (Visiting Scientist from Silesian University School of Medicine, Poland), Dr. Robert Wright (Channing Lab), Dr. Ming Tsuang Wu (HSPH Research Fellow), Dr. Yawen Cheng (Channing Lab), Dr. Geeta Mathur (neonatology fellow at the Brigham and Women's Hospital), Dr. Sri Hari Bojja (HSPH Research Fellow), Dr. Hae-Kwan Cheong (Visiting Scientist from Dongguk University School of Medicine, S. Korea), Dr. Sahar Elmarsafawy (HSPH Research Fellow), Dr. Jing Lu (Visiting Scientist from the Chinese Academy of Preventive Medicine), Dr. Dieter Affeln (Occ/Env Med Fellow), Dr. Ahmed Gomaa (Occ/Env Med Fellow), Dr. Chris Leffler (Occ/Env Med Fellow), Dr. Ronald Dykeman (Occ/Env Med Fellow), Dr. Uma Dhanabalan (Occ/Env Med Fellow), Dr. Hsien-Wen Hsu (Occ/Env Med Fellow), Dr. Betty Ann Cohen (Occ/Env Med Fellow), Dr. Arvin Chin (Occ/Env Med Fellow), Dr. Daniel Rhodes (Occ/Env Med Fellow), Dr. Richard Wittman (Occ/Env Med Fellow), Dr. Sun-Dong Lee (Visiting Scientist from Sangji University, Korea), Dr. Ronald Green (Occ/Env Med Fellow), Dr. Erma Lawson (Environmental Health Fellow), Dr. Marc Weisskopf (Environmental Health Fellow), Dr. Bridget Bagert (Occ/Env Med Fellow), Dr. John Jarrell (Visiting Scientist from University of Calgary), Dr. Jennifer Weuve (Environmental Health Fellow), Dr. Karen Chou (Visiting Scientist from Michigan State), Dr. Nitin Jain (Channing Laboratory Fellow), Dr. Adrienne Ettinger (Children's Center Scientist), Dr. Sam Myers (Fellow in Alternative and Complementary Medicine), Dr. Marcelo Targino (Occ/Env Med Fellow), Dr. Manish Arora (Post-doctoral fellow from University of Sydney), Dr. Huiling Nie (Post-doctoral fellow from McMaster University).

Other faculty mentorship:

Elizabeth Rubinstein (HMS Summer research), Alicia Marier (HMS Summer research), Vanitha Janakiraman (HMS Summer research), Young-Sook Lim (Harvard College Summer research), Charles Lin (Harvard College Senior thesis research), Ed Hsieh (Harvard College Summer research), Naveen Thomas (Emory University Medical School Senior thesis research). Shreekrishna Akilesh (Harvard Dental School summer research), Christine Pace (HMS Summer research)

Advisory and supervisory responsibilities

1985-1987 Attending Physician, outpatient general medicine clinic, Boston City Hospital; weekly precepting for housestaff and medical students

1990-2006 Preceptor, Residency in Occupational and Environmental Medicine, Harvard School

of Public Health at the Mass Respiratory Hospital

1990-2006 Advisor to general M.P.H. students, Harvard School of Public Health.

2. LOCAL CONTRIBUTIONS (at the University of Michigan, 2006-2012)

2006-	Principles of Environmental Health (EHS-500)
	Course director and lecturer
2006-	Environmental Epidemiology (EHS-608)
	Guest lecturer on birth cohorts and environmental epidemiology
2006-	Occupational and Environmental Disease (EHS-501)
	Guest lecturer on metals exposure and health effects; Course Director (2009-)
2007-	Metals Exposure, Biomarkers and Toxicity: A Multi-disciplinary Environmental
	Epidemiology Approach (EHS-698 reading course)
	Course director and lecturer
2008-2009,	Topics in Environmental Health Sciences (EHS-688)
2010-2011	Course director and lecturer
2009	Occupational and Environmental Disease (EHS-501)
	Course director and lecturer
2009-	On-line (Long-distance Foundations in Public Health Certificate Program): Principles
	of Environmental Health (EHS-500-801)
	Course director and lecturer
2009	Introduction to Public Health (HMP-200)
	Guest lecturer on environmental health
2009-	Seminars in Aging and Public Health (EPID 813)
	Course director and lecturer
2011	Seminar on Public Health in China (HMP-xxx)
	Guest lecturer on "Environmental Health in China"

Post-doctoral fellow mentor:

Dr. Sung Kyun Park (Environmental Health Sciences Fellow, now Research Assistant Professor), Dr. Brisa Sanchez (Biostats Research Assistant Professor, now Assistant Professor), Dr. Richard Pilsner (Robert Wood Johnson Health & Society Fellow), Dr. Aimin Zhang (Environmental Health Sciences Fellow, Toxicology Training Grant), Dr. Ananya Roy (Environmental Health Sciences Fellow), Dr. David Cantonwine (Reproductive Sciences Fellow).

Doctoral Student Advisor (principal)

David Cantonwine	Ph.D.	Environmental Health Sciences (2009)
Myriam Afeiche	Ph.D.	Environmental Health Sciences (co-mentor with Karen Peterson;
		2010)
Yoon-Hyeong Choi	Ph.D.	Environmental Health Sciences (co-mentor with Sung Kyun Park;
		2011)
Katie F. Bush	Ph.D.	Environmental Health Sciences (co-mentor with Marie O'Neill;

2011)

Kelly Bakulski Ph.D. Environmental Health Sciences (2012)

Gamola Fortenberry Ph.D. Environmental Health Sciences (co-mentor with John Meeker;

2013)

Siying Huang Ph.D. Environmental Health Sciences (2013)
Deena Thomas Ph.D. Environmental Health Sciences (2014)

Rebecca Tutino Ph.D. Environmental Health Sciences (expected '15)

Zishaan Farooqui Ph.D. MD-PhD Medical Scientist Training Program (2015)

Masters Student Thesis Advisor

Bradley Lampe (OEE), Troy Meissner (OEE), Pheba Alexander (OEE), Brian Davis (OEE & HBHE), Aaron Leftwich (OJOC program), Suengwon Lee (Nutrition), Allen Zhong (OEE), Graham Newman (OEE), Jacqueline Barkoski (OEE)

Undergraduate Thesis Advisor

Lauren Schwartz (Neuroscience, LSA)

3. LOCAL CONTRIBUTIONS (at the University of Toronto, 2012-present)

- 2012 Determinants of Community Health (Faculty of Medicine)
 Guest lecturer on 'The Future of Medicine & Public Health in a Crowded, Diverse, Aging,
 Stratified, Urbanized, Polluted, Hot, Thirsty, Hungry, Debt-Ridden World'.
- 2012- CHL5004H Introduction to Public Health
 Guest lecturer on "The Future of Public Health (and Your Role!) in a Hot, Flat,
 Crowded...and Diverse, Aging, Stratified, Urbanized, Polluted, Thirsty, Hungry, Debt-Ridden World". "What is Public Health?", "Climate Change and Health"
- 2012- CHL 5912F Industrial Toxicology.
 Guest lecturer on the "Toxicology of Metals".
- 2013- Department of Family & Community Medicine "Building Blocks" (short course for International post-graduate primary care trainees)
 Guest lecturer on "Public Health & Primary Care"
- 2013- CHL5701H Doctoral Seminar, Collaborative Doctoral Program in Global Health Guest lecturer on "The Challenges of Environmental Health in a Rapidly-Changing World, from the Molecular to the Global".
- 2014- JCR1000 "Interdisciplinary Approach to Global Challenges" Guest lecturer on "Global Environmental Health"
- 2014- PHS100H1 "Grand Opportunities in Global Health" (course number pending—undergrad course) Guest lecturer on "Urban Environments"
- 2015 Public Health & Preventive Medicine Residency Rounds "Physicians, Climate, and other Global Environmental Changes: Our Role"

Post-doctoral fellow mentor:

Siying Huang, Ph.D.; Morteza Bashash, Ph.D.

4. NIH K-grant mentorship:

- Robert Wright, M.D., M.P.H. (K-23 ES000381, "Neurochemical and Genetic Markers of Lead Toxicity"), 2000-2005; Dr. Wright is now Prof of Pediatrics, Mt. Sinai School of Medicine
- Marc Weisskopf, Ph.D. (K-01 ES012653, "New Biomarkers of Neurotoxicity"), 2004-2009; Dr. Weisskopf is now Associate Prof of Occup Health, Harvard Sch Public Health
- Sung Kyun Park, Sc.D. (K-01 ES016587; "Environment, Novel Aging Outcomes, and Genetics"), 2009-2014; Dr. Park is now Assistant Prof, Department of Epidemiology, University of Michigan Sch Public Health
- Emily Somers, Ph.D. (K-01 ES019909; "Immune Dysfunction Associated with Early Life Heavy Metals Exposure"), 2011-2016; Dr. Somers is now Associate Prof, Division of Rheumatology, Department of Internal Medicine, University of Michigan Medical School

COMMITTEE, ORGANIZATIONAL, AND VOLUNTEER SERVICE

National/International

- 1978-1982 Taskforce on Occupational and Environmental Health, Co-coordinator, Am Med Stu Assoc
- 1989 Ad Hoc Study Committee, National Institute for Environmental Health Sciences Council
- 1989-2006 Association of Occupational and Environmental Medicine Clinics (AOEC)-- (through the Northeast Specialty Hospital Center for Occupational and Environmental Medicine)
- 1989-1990 Member, Relative Risk Reduction Strategies Committee, Science Advisory Board, U.S. Environmental Protection Agency
- 1989-1992 Member, Board of Directors, Physicians for Human Rights, Boston, MA
- National Institutes of Health, General Clinical Research Center Program, Site Visit Team
- 1992- Member, National Advisory Committee, Physicians for Human Rights, Boston, MA
- Special Study Section member (R3/S1/B3), National Institutes of Health
- Ad Hoc Reviewer, National Institutes of Health, General Dental Research Center Program
- 1994- Advisory Board, Institute for Energy and Environmental Research
- 1994-1996 Associate, Project on Global Environmental Change and Health, Physicians for Social Responsibility
- Ad Hoc Reviewer, National Institutes of Health, Diagnostic Radiology Study Section
- 1996- Membor, Editorial Board, Health and Human Rights—an International Journal
- 1995-1998 Advisory Committee, Consortium for Environmental Education in Medicine, Cambridge, MA.

- 1996-1997 Reviewer, Agency for Toxic Substances and Disease Registry
- 1997-1998 Program Committee, Annual Mtg, NIEHS Superfund Basic Research Group Centers
- 1998-2013 (Founding) Medical Editor (1998-2004); Associated Medical Editor (2004-), Environmental Health Perspectives (official journal of NIEHS)
- Ad Hoc Reviewer, National Institutes of Health, R-13 applications
- 2002-2006 External Advisory Committee, Program Project on Lead and Osteoporosis, University of Rochester
- 2003-2005 Member, Ad-Hoc Expert Panel to Form Medical Management Guidelines for Lead-Exposed Adults, (supported by NIOSH and AOEC)
- 2003-2009Member, Working Group on Lead and Pregnancy, Advisory Committee on Childhood Lead Poisoning Prevention, U.S. Centers for Disease Control and Prevention
- Ad Hoc Reviewer, National Institutes of Health, K-23 applications
- 2004 Ad Hoc Reviewer, Draft of "Immunization Safety Review: Vaccines and Autism" Immunization Safety Review Committee, Institute of Medicine, National Academies of Science
- Finalist (one of 8), Search for Director, National Institute for Environmental Health Sciences, U.S. National Institutes of Health
- 2005 Member, Strategic Planning Conference, National Institute for Environmental Health Sciences, Research Triangle Park, NC
- 2006 Ad Hoc Reviewer, Draft of "Preterm Birth: Causes, Consequence, and Prevention"
 Committee on Understanding Premature Birth and Assuring Health Outcomes, Institute
 of Medicine, National Academies of Science
- 2006 Member, External Advisory Committee, NIEHS Center, University of Rochester
- 2007 Member, Ad Hoc Study Section, Special Emphasis Panel/Scientific Review Group 2007/05 ZES1 JAB-C (DI) (NIEHS Discover Centers)
- 2007-2010 Member, Board on Population Health and Public Health Practice, Institute of Medicine, National Academies, Washington DC.
- 2007 Member, Ad Hoc Review Panel, Centers of Excellence Program, Swedish Council for Working Life and Social Research.
- 2007-2008 Member, Search Committee for Director of Extramural Research, NIEHS
- 2007 Special Consultant, Ad Hoc Study Section, Special Emphasis Panel/Scientific Review Group 2008/01 ZAR1 CHW-G (NIAMS Arthritis Centers)
- 2008 Report Reviewer, Draft National Research Council Report, "The National Children's Study Research Plan: A Review", National Academies
- 2008 Report Reviewer, Draft National Research Council Report, "Gulf War and Health: Updated Literature Review of Depleted Uranium", Institute of Medicine, National Academies
- 2008-2009Data Safety Monitoring Board, "d-Penicillamine Chelation in lead-poisoned Children—A Phase II/III Trial" (R01FD003361; PI: Michael Shannon)
- Subcommittee to review Draft Report on Bisphenol A, Science Board, Food and Drug Administration
- 2008 Planning Committee, International Symposium on the Environmental and Health

- Consequences of Metal Mining and Smelting
- 2008-2009 Co-Chair, Planning Committee, "Climate Change Impacts on Public Health in India", Workshop that took place in Goa, India in Aug-Sept 2009 co-sponsored by UM Center for Global Health, the US Centers for Disease Control and Prevention and the Indian Council for Medical Research
- Finalist (one of 2), Search for Director, National Institute for Environmental Health Sciences, U.S. National Institutes of Health
- 2009-2012 Member, Board on Environmental Studies and Toxicology, National Research Council
- 2009 Reviewer, NIH Challenge Grants, Special Emphasis Panel/Scientific Review Group 2009/10 ZRG1 GGG-F
- 2009-2010 External Member, Academic Program Review Site Visit Committee, Department of Environmental and Occupational Health Sciences, University of Washington School of Public Health
- 2010-2012 Member, External Advisory Committee, University of Rochester NIEHS P30 Core Center
- 2010 Member, Ad-hoc review committee, National Health Research Institutes of Taiwan, Special Emphasis Panel—NHRI-Kaoshiung Medical College Program Project on ": "Gene Environment Interaction in the Genesis of Asthma and Allergic Diseases"
- 2010-2012 Member, Advisory Board, Institute of Public Health, Florida Agricultural & Mechanical University, Tallahassee, FL
- 2011 Reviewer, NIEHS Career Development Awards, Special Emphasis Panel/Scientific Review Group 2011/05 ZES1 LKB-J (K9)
- 2011- Member, NIEHS National Advisory Environmental Health Sciences Council
- 2012 Member, Editorial Board, Journal of Alzheimer's Disease

Regional

- 1988-1990 Health Facilities Appeals Board, Member, Dept. Public Health, Comm. Of Mass.
- 1988-2006Advisory Board, Massachusetts Department of Public Health, Sentinel Event Notification System for Occupational Risks (SENSOR) Project
- 1989-1995 Advisory Board, Massachusetts Division of Occupational Hygiene, Lead Registry Project
- 1990-1992 Board of Directors, Member, Health Care for All, Boston, Massachussetts
- 1993-1995 Faculty Council, Member, Harvard School of Public Health
- 1995-2006 Faculty Advisory Committee, Public Health Practice Program, Harvard School of Public Health
- 1996-2006 Advisory Board, Boston VA Environmental Hazards Center, Boston
- 1997-2001 Faculty Steering Committee, Center for Children's Health, Harvard School of Public Health
- 1996-2006 Senior Epidemiology Consultant, Massachusetts Veterans Epidemiology Research and Information Center, Boston.
- 1996-2006 Associate, Center for Health and the Global Environment, Harvard Medical School
- 1997-2002 Faculty Advisory Committee on Continuing Professional Education, Harvard School of Public Health

1998-2006 Faculty Steering Committee, Masters of Public Health program, Harvard School of Public Health

- 2001-2003 Board of Directors, New England College of Occupational and Environmental Medicine
- 2001-2006 Associate Director, Harvard NIEHS Environmental Sciences Center, Harvard School of Public Health
- 2001-2006 Senior Advisory Council Member, Lowell Center for Sustainable Production, University of Massachusetts, Lowell, MA
- 2003-2006 Member, Human Subjects Committee, Harvard School of Public Health
- 2003-2006 Advisory Committee, Occupational Health Services Research Program, Harvard School of Public Health
- 2006 Study Section Review Committee, Pilot Project Program, Graham Environmental Sustainability Institute, School of Natural Resources and Environment, University of Michigan
- 2006-2007 Chair, Planning Committee, Health Sector, May 8-10, 2007 National Summit on Coping with Climate Change, University of Michigan
- 2007-2009 Member, Advisory Committee, SPH Practice Committee, University of Michigan School of Public Health
- 2007-2012 Member, Residency Advisory Committee, General Preventive Medicine Residency, University of Michigan School of Public Health
- 2008-2009 Member, Steering Committee, NIA T32 Training Grant on Aging Research (PI: Mary Haan), University of Michigan School of Public Health
- 2008- Member, Advisory Committee, Outstanding New Environmental Scientist Awardee (Marie O'Neill), NIEHS
- 2008-2009 Member, Search Committee for Director of the Risk Science Center, University of Michigan School of Public Health
- Co-Chair, Planning Committee, Workshop on Predicting and Preventing Climate Change Impacts on Public Health, Goa, India (Collaboration with the UM Center for Global Health, the US Centers for Disease Control and Prevention, and the Indian Council for Medical Research)
- 2009-2011 Director and PI, NIA T32 Training Grant on Aging Research, University of Michigan School of Public Health
- 2009-2010 Member, Planning Committee, University Research Corridor (U of M, Michigan State, Wayne State) symposium on environmental health sciences in January 2010
- 2009-2012 Faculty Associate, Center for Global Health, University of Michigan
- 2009-2012 Member, Internal Advisory Board, Cancer Epidemiology Education in Special Populations Program, University of Michigan School of Public Health
- 2009-2011 Chair, Steering Committee on Global Health, University of Michigan School of Public Health
- 2010-2012 Member, Executive Committee, Graham Environmental Sustainability Institute, University Of Michigan
- 2010-2012 Member, Committee on Diversity, University of Michigan School of Public Health

- 2012- Chair, Executive Committee, Dalla Lana School of Public Health, University of Toronto
- 2012- Chair, Tenure Committee, Dalla Lana School of Public Health, University of Toronto
- 2012- Chair, Decanal Promotions Committee, Dalla Lana School of Public Health, University of Toronto
- 2012- Chair, Executive Advisory Committee, Institute for Global Health Equity & Innovation, Dalla Lana School of Public Health, University of Toronto
- 2013-2015 Interim Director, Institute for Global Health Equity & Innovation, Dalla Lana School of Public Health, University of Toronto
- 2013-2014 Co-Chair, Research Committee, Dalla Lana School of Public Health, University of Toronto
- 2014- Chair, Executive Advisory Committee, Institute for Health Policy Management and Evaluation, University of Toronto
- 2014 Chair, Ad-hoc Committee to create an Institute for Indigenous Health (based on a \$10 million endowment gift made to DLSPH), Dalla Lana School of Public Health, University of Toronto
- 2015- Chair, Executive Advisory Committee, Joint Centre for Bioethics, University of Toronto

Hospital

- 1982-1985 Occupational Safety and Health Committee, Member, Boston City Hospital, Boston
- 1983-1984 House Officers Association, Treasurer, Boston City Hospital
- 1984-1985 House Officers Association, Co-President, Boston City Hospital

OTHER PUBLIC SERVICE

- Member, Fact-finding tour on "The Health Effects of Massive Exposure to Tear Gas", Seoul, South Korea, July 11-18 (Sponsored by Physicians for Human Rights, American College of Physicians)
- Member, Fact-finding tour on "Chemical Weapons and the Iraqi Kurdish refugees", Turkey Oct 6-16 (Sponsored by Physician for Human Rights and the MacArthur Foundation)
- Leader, Fact-finding tour on "Health and Human Rights in Burma (Myanmar)", Thailand-Burma Dec. 26-Jan 6 (Sponsored by Physician for Human Rights and the MacArthur Foundation)
- 2009 Consultant and senior advisor, Fact-finding tour on "Mining and Potential Exposures and Health Effects in Guatemala", August 2009 (Sponsored by Physicians for Human Rights)

CONSULTING POSITIONS

- 1987-1989 Consultant, "In-Vivo Total Body Lead Analysis by X-Ray Fluorescence", NIH/SBIR Grant 2R44ES03918-02
- 1988-1989 Consultant, "Boston Area Health Coalition Demonstration Project", DHHS/MP000003-A1
- 1993-1995 Consultant, Employee Health Services, Brigham and Women's Hospital
- 1994 Consultant, Public Welfare Foundation, Washington, DC (review of Environmental Programs)
- 1997-2006 Consultant, Pediatric Environmental Health Center, Children's Hospital, Boston, MA
- 2000 Consultant, Doris Duke Foundation, New York, NY (review of potential Environment and Medicine programs)
- 2009-2010 Consultant and Member, Academic Program Review Site Visit Committee, Department of Environmental and Occupationa Health Sciences, University of Washington School of Public Health, Seattle, WA
- Consultant, JPB Foundation, New York, NY (review of Environmental Health programs)
- 2014- Advisor, Hearing Health Sciences, Ann Arbor MI and Amsterdam, Netherlands
- 2015- Consultant and Member, Visiting Committee, School of Population and Public Health, University of British Columbia, Vancouver, British Columbia

VISITING PROFESSORSHIPS

- 1997 Alice Hamilton Visiting Professor, University of California at San Francisco
- 2000-2001 Visiting Professor, Sri Ramachandra Medical College & Research Institute, Chennai, India
- Visiting Professor, Department of Environmental Medicine, University of Rochester
- Visiting Professor, Shanghai Key Laboratory, Shanghai Jiao-Tung University

SEMINARS AND EXTRAMURAL INVITED PRESENTATIONS (since 2000; prior presentations upon request)

2000	Discussant, "Multiple Chemical Sensitivities in a 50 year old Administrator", Grand
	Rounds in Occupational/Environmental Medicine, Harvard School of Public Health
2000	Speaker, "International Occupational/Environmental Medicine", Annual National
	Meeting, American Medical Student Association, Washington, DC.
2000	Lecturer, "Globally-distributed Metals", in "Global Environmental Change: the Science
	and Human Health Implications", course given to staff members of the U.S. Congress by
	the Harvard Center for Health and the Global Environment, Airlie House, Virginia.
2000	Discussant, "Cadmium Toxicity in a 28-Year Old Woman in the Jewelry Industry",
	Grand Rounds in Occupational/Environmental Medicine, Harvard School of Public

Grand Rounds in Occupational/Environmental Medicine, Harvard School of Public Health

2000 Lecturer, "The Exportation of Hazardous Industries, Products, and Wastes", Harvard School of Public Health Alumni Weekend

2000	Lecturer, "Lead in Bones: a Toxic Time Bomb?", Department of Environmental and
	Occupational Health, Graduate School of Public Health, University of Pittsburgh.
2000	Lecturer, "Recent Research on the Impact of Maternal Bone Lead Levels on Offspring",
	Environmental Protection Agency, EPA Regional Office 1, Boston, MA
2000	Lecturer, "Lead and Chronic Toxicity", Department of Preventive Medicine, School of
	Medicine, University of Wisconsin.
2000	Speaker, "Epidemiology and Emergencies Involving Suspected Violations of Human
	Rights: Examples and Methodologic Considerations", Annual Conference of the
	International Society for Environmental Epidemiology, Buffalo, NY.
2000	Keynote Speaker, "Environmental Health in the Context of Sustainable Development",
	Workshop on Environmental Epidemiology, Sri Ramachandra Medical College &
	Research Institute, Chennai (Madras), Tamil Nadu, India
2001	Speaker, "The Epidemiology of Lead Toxicity", Workshop on Environmental
	Epidemiology, Sri Ramachandra Medical College & Research Institute, Chennai
	(Madras), Tamil Nadu, India
2001	Grand Rounds, "Environmental and Occupational Health in the Context of Sustainable
	Development", PSG Medical School, Coimbature, Tamil Nadu, India
2001	Keynote Speaker, "Metals Toxicity: Overview"; Lecturer, "Toxicokinetics of Metals";
	Lecturer, "Clinical Management of Metals Toxicity" Workshop on Metals Toxicity, Sri
	Ramachandra Medical College & Research Institute, Chennai (Madras), Tamil Nadu,
	India
2001	Keynote Speaker, "International Issues in Metals Toxicity in Children", Advances in
	Pediatric Care, Randolph, MA.
2002	Guest Lecturer, "Lead Toxicity: An Enduring Global Threat and Scientific Puzzle",
	Watson Institute Lecture Series, Brown University, Providence, RI.
2002	Guest Lecturer, "Lead Toxicity: Much Studied, Much Regulated, but Much Remains
	Unknown", New England Society for Risk Assessment, Cambridge, MA.
2002	Speaker, "A delta-aminolevulinic acid dehydratase (ALAD) polymorphism modifies the
	relationship of low-level lead exposure to uricemia and renal function", annual American
	Occupational Health Conference, American College of Occupational and Environmental
	Medicine, Chicago, IL.
2002	Guest Lecturer, "Lead Toxicity: An Enduring Threat and Scientific Puzzle", Division of
	Occupational and Environmental Health Sciences, University of Illlinois School of Public
	Health, Chicago, IL.
2002	Speaker/Panelist, "The Link Between Clinical Practice and Public Health: Health Care
	Professionals as Public Health Advocates" In Harm's Way: Toxic Threats to Child
	Development, Boston University School of Medicine, Boston, MA.
2002	Discussant, "Acute Lead Intoxication in a Bridge Paint Stripper", Grand Rounds in
	Occupational/Environmental Medicine, Harvard School of Public Health
2003	Speaker, "Metals Toxicity" Sri Ramachandra Medical College and Research Institute,
	Chennai, India.
2003	Guest lecturer, "Lead as a trans-generational toxin", Seminar series, Department of

- OB/GYN, Brigham and Women's Hospital
- Plenary speaker, "Clinical opportunities in environmental health", Annual Leadership Retreat, National Institute for Environmental Health Sciences, Greensboro, NC.
- 2003 Discussant, "Uncontrolled Hypertension in a Painter", Grand Rounds in Occupational/Environmental Medicine, Harvard School of Public Health
- Discussant, "A 53-Year Old Teacher with Chemical Sensitivities", Grand Rounds in Occupational/Environmental Medicine, Harvard School of Public Health
- 2003 Lecturer, "Pestilence and Progress: The Future of Public Health through the Lens of Blood", Center for Blood Research Symposium, Museum of Science, Boston, MA.
- 2003 Speaker, "Bones, Genes, Plasma, and Lead: New Frontiers in Understanding the Toxicity of an Old Hazard", Distinguished Lecture Series. National Center for Environmental Health/Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Atlanta GA.
- 2003 Plenary speaker, "Biomarkers, Genes, Interactions and Lead: New Insights from Research on an Old Hazard", Superfund Basic Research Program Annual Meeting, Dartmouth University, Hanover, NH.
- 2003 Special Lecturer, "Lead Exposure and Chronic Disease: Recent Research on Susceptible Sub-populations", Florida Agricultural and Mechanical University, Tallahassee, FL.
- 2004 Speaker, "New Frontiers in Understanding the Toxicity of Lead", Department of Environmental Medicine, University of Rochester, Rochester, NY.
- 2004 Presenter, "Lead Exposure During Pregnancy: Mobilization of Maternal Bone Lead Stores and Their Threat to the Fetus", Semi-annual meeting of the Childhood Lead Poisoning Prevention Branch, Centers for Disease Control and Prevention, Baltimore, MD
- 2004 Presenter, "Environmental Medicine", Annual meeting of the Editorial Board, *Environmental Health Perspectives*, Baltimore MD
- 2004 Plenary speaker, "Metals, Genes, and Neurodegeneration: the Approach of the Metals Epidemiology Research Group at the Harvard School of Public Health", National Institute for Environmental Health Sciences Conference on Neurodegeneration.
- 2004 Discussant, "Suspected Lead Toxicity" Grand Rounds in Occupational/Environmental Medicine, Harvard School of Public Health
- 2004 Discussant, "Mercury Exposure in a Metal Worker", Grand Rounds in Occupational/Environmental Medicine, Harvard School of Public Health
- 2004 Presenter, "Effects of Our Environment on Intellect, Behavior, Life and Death," Leadership Council meeting, Harvard School of Public Health
- 2004 Guest Speaker, "Biomarkers, Genes, Interactions and Lead: New Insights from Research on an Old Hazard", Department of Environmental Health, University of Michigan School of Public Health
- 2004 Guest Speaker, "Medicine, Public Health, and the Great American Melting Pot: A Second-Generation Chinese-American Reflects on His Personal Odyssey", Sponsored by the Asian Student Association, Harvard School of Public Health
- 2004 Speaker, "Aging, the Environment and Genetics: Recent Insights from Epidemiologic Studies of Environmental Lead Exposure", Annual Leadership Retreat,

- National Institute for Environmental Health Sciences, Pinehurst, NC.
- 2004 Plenary Speaker, "Guidelines for the Management of Lead-Exposed Adults: Recommendations by a National Expert Panel Based on Recent Research", New England College of Occupational and Environmental Medicine Annual Meeting
- 2005 Lecturer, "Biomarkers, Genes, Interactions and Lead: New Insights from Research on an Old Hazard", Sri Ramachandra Medical College and Research Institute, Chennai, Tamil Nadu, India
- 2005 Lecturer, "Your Child's IQ, Behavior and Neuropathology: Genes or Environment?", the Harvard Club of Boston, Boston, MA
- 2005 Guest Speaker, "Metals, Neurodevelopment, and Neurodegeneration: The Work of the Metals Epidemiology Research Group at HSPH", Neurostatistics Working Group, Harvard School of Public Health, Boston, MA.
- 2005 Plenary Speaker, "Aging, the Environment and Genetics: Recent Insights from Epidemiologic Cohort Studies of Environmental Lead Exposure", NIEHS Symposium on Aging and the Environment, Duke University, Durham, NC.
- 2005 Plenary Speaker, "SPECT Imaging and Chemical Intolerance", NIEHS/NIAA symposium on "Chemical Intolerance and Addiction: a Shared Etiology?", Research Triangle Park, NC
- 2005 Workshop Presenter, "Social and Environmental Threats: the Unnecessary Epidemics", Harvard School of Public Health Leadership Council Annual Conference, Boston, MA
- 2005 Keynote Speaker, "Our Food, Our Water, Our Homes: Toxic Metals", The Boston Foundation, Boston, MA.
- 2006 Invited Speaker (invited by David Schwartz, NIEHS Director), "Goal IV: Improve and Expand Community-Linked Research", Roundtable on Environmental Health Sciences, Research, and Medicine; Institute of Medicine, National Academy of Sciences, Wash DC.
- 2006 Speaker, "The Future of Environmental Health Sciences at the University of Michigan", Dean's Advisory Board, University of Michigan School of Public Health, Ann Arbor, MI
- 2006 Keynote Speaker and Harriett Hardy Annual Lecturer, "The 'E' in Occupational/ Environmental Medicine: the Present and the Future", New England College of Occupational Medicine Annual Meeting, New Bedford, MA
- 2007 Speaker, "The Future of Environmental Health Sciences at the University of Michigan", Meetings of the UMSPH Alumni Council and the EHS Emeritus Faculty, Ann Arbor, MI
- 2007 Moderator and Speaker, "The Normative Aging Study: Health Effects of Lead", Symposium on the Health Effects of Lead, 2007 Annual Meeting of the International Society for Environmental Epidemiology, Mexico City, Sept 8, 2007
- 2007 Guest Lecture, "Uncovering the Impact of the Environment on Disease: Big Opportunities for Physician-Scientists", Medical Scientist Training Program, University of Michigan Medical School
- 2007 Guest Lecture, "Industrialization, Pollution and Public Health in India: Can India Survive Modernization?", Osher Institute, Ann Arbor, MI
- 2007 Plenary Speaker, "Environmental Equity: Local and Global Challenges and the Balance Between Research and Advocacy", Michigan's Premier Public Health Conference, October 16, 2007, Dearborn, MI

2007 Board Member Lecture, "Metals, Genes, Health and Human Rights: from the Molecular to the Global", Fall Meeting of the Board of Population Health and Public Health Practice, Institute of Medicine, National Academies of Science, Washington DC, Dec 13, 2007.

- 2008 Speaker, "MDs as Leaders for Change in Environmentalism", 2008 Annual Regional Political Leadership Institute, American Medical Student Association, University of Michigan Medical School, February 16, 2008
- 2008 Speaker, Grand Rounds, "The Impact of Environmental Pollutants on Disease: New Insights and Implications for Research and Medical Practice" Department of Medicine, University of Michigan Health System.
- 2008 Guest Lecture, "Emerging Insights into the Pervasive Influence of Environment Toxicants on Reproductive Outcomes and Offspring Development: Lead as a Case Study", Reproductive Sciences Program, University of Michigan
- 2008 Panelist, "Environmental Health in China", Public Health Grand Rounds, Division of Health Practice, University of Michigan School of Public Health
- 2008 Keynote Speaker, "Human Health and the Role of Water", Symposium on Water, Health & The Environment, Graham Environmental Sustainability Institute, University of Michigan
- 2008 Guest Speaker, "Lead Exposure and Toxicity: New Insights Using Molecular Epidemiology" Wadswoth Laboratories and SUNY-Albany
- 2008 Speaker: "Impact of Climate Change on Human Health: Vulnerability" 5th AKKA World Kannada Conference, Chicago IL
- 2008 Speaker, "The 'E' in Occupational/Environmental Medicine: the Present and the Future", Michigan Occupational/Environmental Medicine Annual Meeting, Mackinac Island, MI
- 2008 Speaker, "Impact of Climate Change on Human Health", University of Michigan Chapter of the American Medical Student Association, Ann Arbor, MI
- 2008 Speaker, "Early Life Origins of Adult Chronic Disease: Environmental Health and Toxicology at a Crossroads" Michigan Chapter fo the Society for Toxicology, Ann Arbor, MI
- 2009 Speaker, "Evidence for Lead as an Environmental Stressor of Alzheimer's Disease and the Role of Epigenetics", Symposium Panel, Annual Meeting of the Society for Toxicology, Baltimore, MD
- 2009 Keynote Speaker, "Lead, Late-Life and Early Life Effects, and the Emerging Field of Environmental Epigenetics: Looking Ahead", Annual Meeting of the American College for the Advancement of Medicine, San Diego, CA
- 2009 Speaker, "Lead Toxicity and Mechanistically-Oriented Molecular Epidemiology: Targeting the Epigenetics of Alzheimer's Disease", Seminar Series, Institute for Environmental Health Sciences, Wayne State University, Detroit, MI
- 2009 Speaker, "Climate Change Impacts on Health in the Developing World", Research Discussion Series, University of Michigan Center for Global Health
- 2009 Speaker, "Autism, Aggressive Behavior, Anxiety, and Alzheimer's: are Environmental Toxicants Playing a Major Etiologic Role?", Department of Psychology, University of Michigan
- 2009 Speaker, "Early Life Exposures and Endocrine Disruption: Evidence from Molecular Epidemiology", Pediatric Endocrine Seminar, University of Michigan Medical School

2009 Distinguished Speaker, "Lead Toxicity: Twenty Years of Research On The Poison That Keeps on Poisoning" 10th Anniversary of the Department of Microbiology and Environmental Toxicology, University of California at Santa Cruz

- 2010 Speaker, "The Centers for Disease Control and Prevention & the Environmental Protection Agency: Potential Funding Opportunities for Regional Collaboration in Michigan", University Research Corridor Symposium on Environmental Health, Detroit, MI.
- 2010 Speaker, "The Future of Public Health", University of Washington School of Public Health
- 2010 Speaker, "The Environment Meets the Epigenome: Is This Where Autoimmunity Begins?" Symposium on Autoimmunity and Epigenetics, University of Michigan
- 2010 Keynote Speaker, "A New Twist to an Old Story: The Evidence for Early Life Lead Exposure as a Risk Factor for Alzheimer's Disease through Epigenetic Programming", NIEHS Environmental Health Sciences Center and Toxicology Training Program Retreat, University of Rochester, NY
- 2010 Speaker, "Lead Toxicity: Twenty Years of Research on The Poison That Keeps on Poisoning" and "Environmental Health Sciences at the University of Michigan", Tianjin Centers for Disease Control, Tianjin, China
- 2010 Speaker, "Pediatric Lead Toxicity", Xinhua Hospital and the Shanghai Jiao-Tung Medical University Department of Pediatrics, Shanghai, China
- 2010 Speaker, "Environmental Health Sciences at the University of Michigan", Fudan University, Shanghai, China
- 2010 Speaker, "Alzheimer's Disease, Epigenetics and the Environment", Symposium Update, Alzheimer's Disease Association, Ann Arbor, MI
- 2010 Speaker, "Environmental Justice, Progress (and the Lack Thereof) and the Role of Research", Roundtable on Environmental Health Sciences, Research and Medicine, Institute of Medicine, National Academies, Washington DC.
- 2010 Speaker, "White Coats, Population Science and Poison Gas: A Life Spent at the Intersection of Academic Medicine, Global Health & Human Rights", Robert Wood Johnson Clinical Fellows Program, University of Michigan Medical School, Ann Arbor, MI
- 2011 Speaker, "The Three Most Difficult Challenges to Molecular Epidemiologic Research on Gene-Environment Interactions: Lead Toxicity as a Case Study." Department of Human Genetics, University of Michigan Medical School, Ann Arbor, MI
- 2011 Speaker, "The Integration of Data on Environmental Carcinogens with Population and Genetic Resources", "Opportunities & Challenges for Translational Research on Cancer Prevention", Translational Cancer Prevention & Biomarkers Workshop, Mazamdur-Shaw Cancer Center, Bangalore, India.
- 2011 Speaker, "Success in the Academy", Faculty Panel, Students of Color of Rackham, Rackham Graduate School, University of Michigan
- 2011 Speaker, "White Coats, Population Science and Poison Gas: Fact-Finding Missions by Health Professionals for Human Rights", Sujal Parikh Memorial Symposium, University of Michigan Medical School.
- Speaker, "The Analysis of Biomarker Data to Ascertain the Contribution of Environmental Exposures to the Etiology of Disease: Lead Exposure and Toxicity as a Case Study",

- Department of Computational Medicine and Bioinformatics, University of Michigan Medical School.
- 2012 Speaker, "Research and Analysis Linking Upstream and Downstream Disparities Work", Webinar hosted by the Health & Environmental Funders Network, Bethesda, MD, with 52 Foundations related Health.
- 2012 Keynote Speaker, "The Future of Public Health & Medicine in a Crowded, Diverse, Stratified, Hot, Urbanized, Polluted, Thirsty, Hungry and Debt-Ridden World". E.J. Van Liere Memorial Convocation and Health Sciences Center Research Day, West Virginia University, Morgantown, West Virginia
- 2012 Plenary Speaker, "Transgenerational Impacts of Pollutants on Offspring: Recent Insights and Case Studies", Connaught Global Challenge International Symposium, University of Toronto.
- 2012 Speaker, "Environmental Impacts on Aging (+ an update on the Dalla Lana School of Public Health)", Community Medicine Rounds, University of Toronto
- 2012 Speaker, "The Environment & Public Health in a Research-Intensive University:
 Opportunities for Scholarship in a Crowded, Diverse, Stratified, Hot, Urbanized, Polluted,
 Thirsty, Hungry and Debt-Ridden World", School for the Environment, University of
 Toronto
- 2012 Speaker, "Big Public Health Challenges (& Opportunities) in a Crowded, Diverse, Aging, Stratified, Urbanized, Polluted, Hot, Thirsty, Hungry, Debt-Ridden World", External Advisory Meeting, Public Health Ontario, Toronto
- 2012 Speaker, "Canadian Public Health Schools (in a Crowded, Diverse, Aging, Stratified, Urbanized, Polluted, Hot, Thirsty, Hungry, Debt-Ridden World): The View from Toronto, External Advisory Board Meeting, Institute for Population and Public Health, Canadian Institutes for Health Research, Toronto
- 2012 Speaker, "Sustainable Development and Health: The Global Mining Industry", Canadian Society for International Health Annual Meeting, Ottawa
- 2012 Speaker, "Big Public Health Challenges (& Opportunities) in a Crowded, Diverse, Aging, Stratified, Urbanized, Polluted, Hot, Thirsty, Hungry, Debt-Ridden World", Xinhua Hospital/Shanghai Jiao-Tung University, Shanghai, China.
- 2012 Speaker, "The Impact of Population-Wide Lead Exposure and Gene-Lead Interactions on Chronic Disease", Genetic Grand Rounds, Sick Kids Hospital, Toronto.
- 2012 Speaker, "Looking behind the curtain: Lead Toxicity as a Case Study of Methodologic Challenges in Gene-Environment Interactions Research", Strategic Training in Advanced Genetic Epidemiology (STAGE), Dalla Lana School of Public Health, University of Toronto.
- 2012 Keynote speaker: "Public Health—the Next Frontier in Health Professions Education". Council of Health Sciences annual retreat, University of Toronto.
- 2013 Speaker, "White Coats, Population Science and Poison Gas: Lessons from a Life Spent at the Intersection of Academic Medicine, Global Health & Human Rights", Joint Center for Bioethics, University of Toronto
- 2013 Speaker, "Gauging environmental impact on the development of chronic inflammation", Connaught Global Challenge Workshop, University of Toronto.

2013 Speaker, "The Future of Public Health & Medicine in a Crowded, Diverse, Aging, Stratified, Urbanized, Polluted, Hot, Thirsty, Hungry, Debt-Ridden World", Grand Rounds, Department of Medicine, University of Toronto.

- 2013 Speaker, "Metals, Mega-trends, and Me: Reflections on Research and the Vision for the Dalla Lana SPH", Occupational and Environmental Medicine Grand Rounds, St. Michael's Hospital, Toronto, ON.
- 2013 Speaker, "Air pollution and Cardiovascular Disease: Health Impacts, Mechanisms, and Research Opportunities", University of Toronto & FMUSP-InCor Symposium on Cardiology, Sao Paolo, Brazil.
- 2013 Speaker: "Lead Exposure's Impact on Health and Policy: A History of Neglect and Missed Opportunities", Public Health Policy Rounds, CIHR Strategic Training Program in Public Health Policy, University of Toronto.
- 2013 Speaker: "Lead Toxicity: The Long Tail of Health Impacts (and On-going Research Opportunities!) From an Historical Environmental Air Pollutant", Southern Ontario Centre for Air Pollution and Aerosol Research, University of Toronto.
- 2013 Speaker: "Water and Sanitation", Water, Sanitation and Hygiene (WASH) Canada, Toronto, Ontario, Canada
- 2014 Speaker: "Conflict and Public Health", Ontario Medical Association, Toronto, Canada
- 2014 Panelist: "Judging Evidence: Finding a Place for Variation in an Evidence-Based World", Health Quality Ontario, Toronto, Canada
- 2014 Speaker: "The Grand Convergence: Creating Health in a Globalized World", Special meeting of the Canadian Chamber of Commerce in Shanghai
- 2014 Speaker: "The Grand Convergence: Creating Health in a Globalized World", Jockey School of Public Health and Primary Care, Chinese University of Hong Kong, Hong Kong, China
- 2015 Speaker: "The Grand Convergence: Creating Health in a Globalized World", School of Public Health and the ASEAN Institute, Mahidol University, Bangkok, Thailand
- 2015 Speaker: "Gene-environment Interactions and the Role of Big Data in Environmental Health" Seminar series, School of the Environment, University of Toronto, Toronto, Canada
- 2015 Speaker: "Global Health Security", Ill with Illness—Economic, Social & Security Barriers to the Provision of Global Health, Munk School of Global Affairs, University of Toronto, Toronto, Canada
- 2015 Speaker: "The Dalla Lana School of Public Health: Big Ideas and Initiatives for Creating Health in a Globalized World", Speaker Series, University of Toronto Alumni of Toronto.
- 2015 Speaker: "Unique Scientific Opportunities for the Precision Medicine Initiative National Research Cohort: Exposomics, Data Linkage, and Global Collaborations". Working group on President Obama's Precision Medicine Initiative (Chaired by Francis Collins, Director, NIH)
- 2015 Speaker: "What is the Role of Schools of Public Health in the 21st Century?" 50th Anniversary Celebration of the Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, Quebec.
- Welcoming Address: "Global Public Health and Mental Health", Going Glo-cal for Mental Health conference, Centre for Addictions and Mental Health/Department of Psychiatry/Dalla

Lana School of Public Health, Toronto, ON

2015 John Goldsmith Memorial Lecture: "Big Data, Environmental (and Social) Epidemiology, Power and Politics", Opening Plenary Session, International Society for Environmental Epidemiology Annual Meeting, Sao Paulo, Brazil

INVENTIONS/PATENTS: n/a

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- 2. Hu H. Benzene and myelofibrosis. Annals of Internal Medicine 1987;106:171-172
- 3. Hu H, Milder FL, Burger DE. X-Ray Fluorescence: Issues surrounding the application of a new tool for measuring burden of lead. Environmental Research 1989;49:295-317.
- 4. Hu H, Fine J, Epstein P, Kelsey K, Reynolds P, Walker B. Tear Gas: Harrassing agent or toxic chemical weapon? JAMA 1989;262:660-663.
- 5. Hu H, Cook-Deegan R, Shukri A. The use of chemical weapons: Conducting an investigation using survey epidemiology. JAMA 1989;262:640-643.
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- 7. Burger DE, Milder FL, Morsillo PR, Adams BB, Hu H. Automated bone lead analysis by k-x-ray fluorescence for the clinical environment. Basic Life Sci 1990;55:287-292.
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- 9. Jones KW, Schidlovsky G, Burger DE, Milder FL, Hu H. Distribution of lead in human bone: III. Synchrotron x-ray microscope measurements. Basic Life Sci 1990;55:281-286.
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- 16. Hu H. Toxic weapons, epidemiology, and human rights. Polit Politics and Life Sci 1992;February:3-4.
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- 22. Payton M, Hu H, Sparrow D, Young JB, Landsberg L, Weiss ST. Relation between blood lead and urinary biogenic amines in community-exposed men. Am J Epidemiol 1993;138:815-825.
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