

**CURRICULUM VITAE****Stephanie Joan London****Education**

Harvard College, Cambridge, MA, A.B. *cum laude* in History and Science, 1978  
 Harvard Medical School, Boston, MA, M.D., 1983  
 Harvard School of Public Health, Boston, MA, M.P.H., 1983  
 Harvard School of Public Health, Boston, MA, Dr.P.H., 1989

**Experience**

1983-1984	Intern in Internal Medicine, Massachusetts General Hospital, Boston, MA
1984-1986	Resident in Internal Medicine, Massachusetts General Hospital Boston, MA
1986-1989	Staff Physician, Occupational Medicine Clinic, Massachusetts General Hospital, Boston, MA
1987-1989	Resident in Occupational Medicine, Harvard School of Public Health, Boston, MA
1989-1995	Assistant Professor, Division of Occupational and Environmental Medicine, Department of Preventive Medicine, University of Southern California School of Medicine, Los Angeles, CA
1995-2002	Tenure Track Investigator, Epidemiology Branch, National Institute of Environmental Health Sciences, Research Triangle Park, NC
1995-1997	Research Associate Professor (adjunct appointment), Department of Preventive Medicine, Division of Occupational and Environmental Medicine, USC School of Medicine
1996-2002	Adjunct Associate Professor, Department of Epidemiology, University of North Carolina School of Public Health
2002-present	Adjunct Professor, Department of Epidemiology, University of North Carolina School of Public Health
2002-present	Senior Investigator (tenured), Epidemiology Branch, National Institute of Environmental Health Sciences

**Special Skills, Accomplishments and Awards****Medical Certification**

Medical Licensure	California, G 70347
Board Certification	American Board of Internal Medicine, 1987 American Board of Preventive Medicine - specialty in Occupational and Environmental Medicine, 1992

## Membership in Professional Societies

1986-1989	Massachusetts Medical Society
1988-1999	Society for Epidemiologic Research,
1995-2013	International Society for Environmental Epidemiology
1992-1999	American Association for Cancer Research
1999-present	American Thoracic Society

## Honors and Recognition

1977	Phi Beta Kappa, Harvard University
1982	Schweitzer Fellow, Lambarene, Gabon
1986-1989	National Research Service Award
1993-1995	Research Career Development Award, Stop Cancer Foundation
2009	NIH Merit Award

## Reviewer for Funding Agencies

### National Institute of Health

1994	Review Committee, National Institute of Environmental Health Sciences: Superfund Hazardous Substances Basic Research Program.
1994	Special Review Committee, National Cancer Institute, Breast Cancer and the Environment on Long Island.
1996	Special Review Committee, RFA CA 96-016, National Cancer Institute/ National Action Plan for Breast Cancer, Small Grants Program.
1996	Temporary Member, Epidemiology and Disease Control 2 Study Section, National Institutes of Health
1997	Special Review Committee, National Cancer Institute. RFP N01-CP-71015-09 Epidemiologic Studies of Cancer Among Atomic Bomb Survivors.
1998	Special Review Committee, National Institute of Environmental Health Sciences RFA 98-007 "Structure-Function Relationships of Environmentally Relevant Genetic Variants".
1998	National Cancer Institute Scientific Review Group, Subcommittee E, on Cancer Epidemiology, Prevention and Control, Temporary Member for review of family study of genetics of lung cancer.
2002	World Trade Center Supplement Proposals (ES02-006) review panel. NIEHS.
2009	Special Review Committee, National Heart Lung and Blood Institute (NHLBI), RFA08-009, Development Original of Altered Lung Physiology and Immune Function. Feb 18, 2009.
2010	Special Emphasis Panel, National Institute of Allergy and Infectious Diseases, RFA-AI-09-039, "Consortium of Food Allergy Research". Mar 22, 2010.
2012	Special Emphasis Panel for NHLBI Program Announcement "Integrative Omics Data Analysis for Discovery in Lung Diseases". Nov 16, 2012.
2013	Special Emphasis Panel for NHLBI Program Announcement PAR-12-155: Integrative Omics Data Analysis for Discovery in Lung Diseases. November 18, 2013.

- 2014 Special Emphasis Panel for NHLBI Program Announcement PAR-12-155: Integrative Omics Data Analysis for Discovery in Lung Diseases. September 30, 2014. Co-chair.
- 2016 Asthma and Allergic Diseases Cooperative Research Centers (U19) Review Panel, March 15-17, 2016.

#### Additional Funding Reviews

- 1996 Chairperson, Special Review Panel for the Wireless Technologies Resources Epidemiologic Investigations.
- 1996-present External Reviewer, Southern California Environmental Health Sciences Center, Research Pilot Project Program.
- 1998 Scientific Review Panel, Electric Power Research Institute, Occupational exposure to magnetic fields and the risk of breast cancer. Aug 1998.
- 1999 Special Emphasis Panel for Program Announcement 99117 on "Prevention Research Using Genetic Information to Prevent Disease and Improve Health". Office of Genetics and Disease, Centers for Disease Control.
- 2000 Review panel for RFA 02-1: "Measuring the Health Impacts of Actions that Improve Air Quality." Health Effects Institute.
- 2001 Scientific Review Panel for RFA on Long Term Survivors of Cancer. NCI, Oct 8-9, 2003.
- 2007 International Peer Review Committee, Canadian Institutes of Health Research, Program for "Indoor Air Exposures, Genes, and Gene-Environment Interactions in the Etiology of Asthma and Allergy in Early Childhood". Oct 14, 2007.
- 2010 US EPA Clean Air STAR Research Center Review. Alexandria, VA Apr 7-9, 2010.
- 2014 Wellcome Trust/ DBT India Alliance. Reviewer for Indian Alliance Fellowship.
- 2015 Medical Research Council, UK. Grant review. May 2015.

### Committee Memberships and Scientific Leadership

#### National Institute of Environmental Health Science

- 1996-1998 Electric and Magnetic Field Steering Committee
- 1996 Organizing Committee, Electric and Magnetic Fields Science Review Symposia
- 1997-2001 Symposium and Lecture Committee
- 1997-1998 Environmental Genome Project Working Group
- 1998-2000 Clinical Advisory Council
- 1998-2002 Laboratory of Pulmonary Pathobiology, Search Committee
- 2000 Assembly of Scientists, subcommittee on compensation for post doctoral fellows
- 2000-2002 Biologic Specimen Committee
- 2000 Workshop Organizer and Chair "Early Life Factors in Childhood Respiratory Illness". Oct 17, 2000

2001 Workshop Organizing Committee – “Diets, Antioxidants and Environmental Influences on Health and Disease”. Mar 13-14, 2001

2002-2006 NIEHS Institutional Review Board

2005 NIEHS Strategic Planning Committee

2005-2006 Workshop Organizer and Chair, “Omega-3 Fatty Acid Supplementation During Pregnancy and Infancy: New Opportunities for Prevention Trials”, Mar 8-9, 2006

2006 Planning committee, NIEHS Workshop on Global Environmental Health Search Committee member - Clinical Research, Staff Clinician Search Committee member - Three physician-scientist positions Planning committee, NIEHS contribution to trans-NIH Science Challenge Day  
NIEHS Leadership Council Retreat, Aug 29, 2006  
Committee on Promotions I , 2006-present

2007 Search Committee - Scientific Director, Division of Intramural Research  
Search Committee Chair, Director of Extramural Research and Training

2007-2009 Molecular Genetics Core Advisory Committee

2008-present Clinical Advisory Committee

2011 Scientific Director’s Advisory Committee  
Search Committee – Clinical Director, NIEHS

2013-2015 Assembly of Scientists, President-Elect 2013, President 2014, Past-President 2015

2013-2014 Search Committee, Biostatistics Branch Tenure Track

2013- Global Environmental Health Advisory Committee

2015-2016 Search Committee, Epidemiology Branch Tenure Track

2015 Chair of committee to develop NIEHS Genome Data Sharing Policy

2015- Genome Policy Administrator Advisory Committee

2017- Councilor, NIEHS Assembly of Scientists

National Institutes of Health

2014-2016 Earl Stadtman Search Committee: Population Sciences

2017- Councilor, NIH Assembly of Scientists

Other government agencies

2012 Alice Hamilton Epidemiology and Surveillance Panel, NIOSH

National and International

1994-1995 Harvard Center for Risk Analysis, Advisory Committee on EMF and Human Health

1997 External Advisory Committee of the Massachusetts Institute of Technology Center for Environmental Health Sciences

1998 Lung Cancer Screening Task Force, National Cancer Institute  
Invited participant, American Thoracic Society Workshop on “What constitutes an adverse respiratory health effect?” Baltimore, MD

1999	Program Committee, American Association for Cancer Research, Program Committee
2000	Co-Chair, Symposium on Genetic Susceptibility and Biologic Plausibility, American Association for Cancer Research International Meeting, 2000
2000-2004	American Thoracic Society, Environmental and Occupational Health Assembly, Program Committee
2001	<p>National Cancer Institute, Lung Cancer Progress Review Group, Roundtable meeting, invited participant. Chantilly, Virginia. Apr 16-18, 2001</p> <p>Symposium Organizer and Chair, "The Hygiene Hypothesis in Childhood Asthma". American Thoracic Society International Meeting, May 20, 2001</p> <p>Chair, Session on "Epidemiologic Studies of Gene-Environment Interaction in Cancer", US-European Workshop: Gene-Environment Research at the Interface of Toxicology and Epidemiology. Garmisch, Germany, Sep 4-5, 2001</p> <p>Advisor to Childhood Origins of Asthma Study (NIH R01HL061879), University of Wisconsin Plenary session chair, Workshop on Mechanistic Considerations in the Design and Interpretation of Molecular Epidemiologic Studies of Cancer. International Agency for Research on Cancer, Lyon, France, Nov 14-17,</p>
2001	Gene-Environment Interaction Working Group Member, National Children's Study

- 2002 Chair, poster-discussion session on “Obesity and Asthma”, American Thoracic Society International Meeting, May 20, 2002  
 Councilor, International Society for Environmental Epidemiology  
 Program Committee Chair-Elect, Environmental and Occupational Health Assembly, American Thoracic Society  
 International Program Committee, American Thoracic Society  
 External Scientific Advisory Committee, NIH grant “Partnerships to Eliminate Disparities in Cancer Outcomes”. Duke University
- 2003 Ad-hoc reviewer. MBRS-SCORE Program, Medical Sciences Campus, University of Puerto Rico  
 Co-Chair, Asthma Working Group, National Children’s Study  
 Organizer and chair. Symposium “Genetics of Pulmonary Response to Environmental Agents”. 2003 International Conference of the American Thoracic Society  
 Program Committee Chair, Environmental and Occupational Health Assembly, American Thoracic Society  
 International Program Committee, American Thoracic Society  
 Councilor, International Society for Environmental Epidemiology
- 2004 International Program Committee, American Thoracic Society  
 Councilor, International Society for Environmental Epidemiology  
 Program Committee. Workshop “Environmental Influences on the Induction and Incidence of Asthma”. Jointly sponsored by EPA and NIEHS. Mar 18-19, 2004
- 2005- Planning Committee, Environmental and Occupational Health Assembly, American Thoracic Society  
 Advisory Committee, EPA funded, Harvard Particulate Matter Center, 2005-present
- 2006 Planning Committee, Environmental and Occupational Health Assembly, American Thoracic Society.  
 Scientific planning committee for the 2007 International Conference of the International Society for Environmental Epidemiology held Sep 5-9, 2007
- 2007- Program & Planning Committees, Environmental and Occupational Health Assembly, American Thoracic Society (2007-2008)  
 Nominating Committee, Environmental and Occupational Health Assembly  
 Co-chair of mini-symposium “Triggering the gun: Exposure and genetic interaction in lung disease”. American Thoracic Society International Conference, San Francisco, CA, May 22, 2007  
 Consulting Team member, Community Guide Asthma Initiative, Centers for Disease Control.  
 Organizer and Chair of session “Emerging issues in Air Pollution Research”, International Society for Environmental Epidemiology annual conference, Mexico City, Sep 8, 2007  
 External Advisory Committee, Environmental Protection Agency Particulate Matter Center at Harvard School of Public Health.

Term **2007-2010.**

Health Review Committee, Health Effects Institute, Term **2007-2015**

- 2008 Chair, Planning Committee, Environmental and Occupational Health Assembly, American Thoracic Society, Term **2008-2010**  
Co-Chair. Poster Discussion session - Supersizing knowledge of diet, obesity and respiratory diseases. American Thoracic Society International Conference. May 21, 2008  
NHLBI Working Group: Building Partnerships Toward Global Approach to Genetics of Asthma and other Lung Diseases. Initial meeting held Jul 17-18, 2008, Bethesda, MD  
Session Chair. Respiratory Effects of Occupational and Environmental Exposures. International Society for Environmental Epidemiology Joint Annual Conference. Oct 14, 2008. Pasadena, CA  
Air Pollution Group, Global Burden of Disease 2005 project. 2008-present
- 2009 External Advisory Committee, Pediatric Environmental Medicine Center, University of Pittsburgh Medical Center. Apr 23, 2009
- 2010-present Scientific Advisory Board, Helmholtz Institute, Munich, Germany
- 2011 Co-Chair, Review of Epidemiology Programs of the Helmholtz Institute, Munich, Germany. Jul 6-8, 2011
- 2011 American Thoracic Society International Conference  
Co-Chair, Session "Genetic and Epigenetic Studies of Environment Lung Disease", May 18, 2011  
Facilitator, Thematic Poster Session, "Early Environmental Exposures that Influence Allergy and Lung Disease", May 15, 2011
- 2012 American Thoracic Society International Conference.  
Co-Chair, Symposium: "Inhaled Exposures, Genetics and Airways Disease: A View Towards Prevention", May 23, 2102  
Co-Chair, Poster Discussion, Session: "New Developments in Lung Disease Genetics". May 21, 2012  
Facilitator, Thematic Poster Session: "Environmental Exposures that Influence Lung Function", May 21, 2012
- 2013 Health Effects Institute Annual Conference. Co-Chair, "From Particle Exposure to Cardiovascular Effects: How Well Do We Understand the Mechanisms?" Apr 15, 2013
- 2016-2017 Nominating Committee, American Thoracic Society.

## Editorial Activities

1995-2000	<i>Pharmacogenetics</i> , Editorial Board
1997-2009	<i>American Journal of Epidemiology</i> , Associate Editor
2003-2007	<i>Epidemiology</i> , Editorial Board
2007-2008	<i>Environmental Health Perspectives</i> , Interim Editor
2007-	<i>Epidemiology</i> , Editor
2013-	<i>Environmental Health Perspectives</i> , Associate Editor and Advisory Board member
2016-	<i>Epigenomics</i> , Editorial Board

## Peer reviewer for journals

*American Journal of Epidemiology*  
*American Journal of Industrial Medicine*  
*American Journal of Respiratory and Critical Care Medicine*  
*Annals of Epidemiology*  
*British Medical Journal*  
*Carcinogenesis*  
*Cancer Causes and Control*  
*Cancer Epidemiology, Biomarkers and Prevention*  
*Cancer Research*  
*Epidemiology*  
*European Respiratory Journal*  
*Journal of Allergy and Clinical Immunology*  
*Journal of the National Cancer Institute*  
*Lancet*  
*Lung Cancer*  
*Nature Genetics*  
*Nature Communications*  
*New England Journal of Medicine*  
*Pediatric and Perinatal Epidemiology*  
*Pediatrics*  
*Pharmacogenetics*  
*Science*

## Invited Presentations

1. "Design Issues in Epidemiologic Studies of Genetic Polymorphism of Xenobiotic Metabolizing Enzymes and Cancer Risk". U.S., Japan Cancer Workshop on Xenobiotic Metabolizing Enzymes and their Roles in Cancer Susceptibility. Kauai, HI, Feb 20-23, 1994.
2. "Rationales for gene-environment interactions". International Society for Environmental Epidemiology, Research Triangle Park, NC, Sep 20, 1994.
3. "Genetic Susceptibility". Symposium "Environmental Exposures and Susceptibility: A Clinical and Policy Focus". American College of Occupational and Environmental Medicine. Las Vegas, NV, May 4, 1995.



4. "Methodologic issues in studies of gene-environment interactions". Workshop on Diet, Nutrition and Genetic Susceptibility. National Cancer Institute. Washington, DC, Jan 22-23, 1997.
5. "Magnetic fields, melatonin and breast cancer risk". Obstetrics and Gynecology Grand Rounds, Duke University School of Medicine, Durham NC, Jan 29, 1997.
6. "Genetic polymorphisms of carcinogen metabolizing enzymes and lung cancer risk". University of California, San Francisco, School of Medicine symposium: "Molecular Advances in Cancer Epidemiology and Prevention". San Francisco, CA. Feb 22, 1997.
7. "Magnetic fields and breast cancer risk". 3<sup>rd</sup> Annual Breast Cancer Research Program Retreat of the USC/Norris Cancer Center. San Diego CA, Feb 19, 1997.
8. "Magnetic fields, melatonin and breast cancer risk". Environmental Health Seminar Series. Colorado State University. Fort Collins, CO. Mar 17, 1997.
9. "Epidemiology of EMF – What does it tell us about designing future studies"? U.S.-Japan Seminar on ELF-EMF and Health. Organized by National Institute for Environmental Studies (Japan) and Japan Environmental Agency. Tokyo, Japan. Mar 21, 1997.
10. Symposium on the Environmental Genome Project. Moderator and Speaker, session IV - "Population-based epidemiological studies". Bethesda, MD, Oct 17-18, 1997.
11. "Genetic Susceptibility to Asthma". Symposium on "Genes, the Environment and the Inherited Basis of Disease". Dearborn, MI. Oct 31, 1997.
12. "Genetic Susceptibility to Lung Cancer". Visiting Pulmonary Scholar Program. Duke University Medical Center, Durham, NC, Nov 5, 1997.
13. "Magnetic fields and breast cancer". NIEHS EMF Science Review Symposium II: Epidemiological Research Findings. San Antonio TX, Jan 12, 1998.
14. "Genetic Susceptibility to Lung Cancer". Radiation Oncology Grand Rounds. Duke University Medical Center, Durham, NC. Feb 28, 1998.
15. "Genetic Susceptibility to Lung Cancer". Harvard School of Public Health. Boston MA. Feb 9, 1998.
16. "New studies of genetic susceptibility to childhood respiratory illness". Centers for Disease Control. Atlanta, GA. Dec 11, 1998.
17. "The role of genetic susceptibility in environmentally related disease". National Institute for Nursing Research, Summer Genetics Institute Planning Meeting, Bethesda, MD. Mar 15, 1999.
18. "Genetic susceptibility to childhood respiratory illness". University of Iowa Environmental Health Sciences Research Center. Iowa City, IA. May 17, 1999.

19. "Genetic susceptibility to adult nonmalignant respiratory disease". Institute for Social and Preventive Medicine, University of Basel. Basel, Switzerland. Jul 9, 1999.
20. "IGF-1 and Cancer: An epidemiologist's commentary". 5<sup>th</sup> International Symposium on Insulin-Like Growth Factors. Brighton, United Kingdom. Nov 4, 1999.
21. "A gene-diet interaction in lung cancer". 12<sup>th</sup> Annual California Cancer Registries Conference "Genes and Environment: Clues to Cancer Causation and Prevention", San Diego, CA. Mar 13, 2000.
22. "Gene diet interaction in lung cancer". Environmental and Occupational Health Sciences Institute, UMDNJ-Robert Wood Johnson Medical School, Piscataway NJ. Apr 25, 2000.
23. "Cancer risk and polymorphisms of cytochrome P450s and other xenobiotic metabolism enzymes". Conference on Pharmacogenetics/Genomics of Cytochrome P450. American Society for Biochemistry and Molecular Biology/American Society for Pharmacology and Experimental Therapeutics 2000 annual meeting. Boston, MA. Jun 4, 2000.
24. "Gene-diet interaction in lung cancer". National Institute of Public Health, Cuernavaca, Mexico. Sep 13, 2000.
25. "Gene-diet interaction in lung cancer". Lovelace Respiratory Research Institute International Symposium on Susceptibility Factors for Respiratory Diseases. Santa Fe, NM. Oct 4, 2000.
26. "Gene-diet interaction in lung cancer". Cancer Seminar Series. Dept. of Epidemiology, University of North Carolina School of Public Health, Chapel Hill, NC. Oct 27, 2000.
27. "Molecular Epidemiology of Lung Disease". Environmental Mutagen Society 32<sup>nd</sup> Annual Meeting, San Diego, CA, Mar 17, 2001.
28. "Genetic Susceptibility to Childhood Asthma". Pulmonary Division Seminar. Duke University Medical Center, Durham, NC. Dec 4, 2001.
29. "Genetic and Environmental Factors in Childhood Respiratory Illness". Department of Environmental and Environmental Toxicology. North Carolina State University, Raleigh, NC. Mar 5, 2001.
30. "Genetic susceptibility to lung cancer: a molecular epidemiologist's perspective" as part of symposium "Screening for Lung Cancer: A Critical Review of the Evidence and Future Prospects". 2002 International Conference of the American Thoracic Society. Atlanta GA, May 21, 2002.
31. "Interactions between genes". AACR International Conference in Cancer Research: Molecular and Genetic Epidemiology of Cancer. Waikoloa, HI. Jan 18, 2003.

32. "Genetic susceptibility to asthma" NIH Directors Seminar Series. Bethesda, MD. Apr 4, 2003.
33. "Population-based study designs". Postgraduate Course on Genetic Association Studies in Complex Disease. American Thoracic Society International Conference. Seattle, WA. May 16, 2003.
34. "Susceptibility to air pollution: gene-environment interaction". Postgraduate Course on New Tools to Evaluate the Health Effects of Air Pollution in Epidemiologic Studies. American Thoracic Society International Conference. Seattle, WA. May 17, 2003.
35. "Susceptibility to air pollution". In symposium: "Emerging issues in air pollution w: what's hot, what's not". American Thoracic Society International Conference, Orlando, FL. May 23, 2004.
36. "Susceptibility to air pollution". Workshop on the Swiss Cohort Study on Air Pollution and Lung Diseases in Adults. Monte Verita, Switzerland. Aug 18, 2004.
37. Air pollution and asthma induction. Workshop "Environmental Influences on the induction and incidence of asthma". Environmental Protection Agency, Research Triangle Park, NC. Oct 18, 2004.
38. Genetic susceptibility to childhood asthma. Environmental Health Seminar Series. Department of Environmental Health, University of Cincinnati, Cincinnati, OH. Nov 3, 2004.
39. Gene-environment interaction and childhood respiratory health. Workshop on Childhood and Environment. Spanish network of research on childhood health and the environment. Granada, Spain. Feb 2-4, 2005.
40. Pharmacologic Approaches to Air Pollution Effects. Symposium on Nutritional and Pharmacological Protection from Air Pollutants. Annual meeting of the American Academy of Allergy, Asthma and Immunology. Mar 22, 2005.
41. Gene-environment interaction in air pollution research. Symposium on Intervention studies in air pollution research. American Thoracic Society International Conference. May 24, 2005.
42. Gene-Environment Interaction in Asthma. National Institute of Public Health, Oslo, Norway, May 8, 2006.
43. Gene-Environment Interaction in Asthma. Transatlantic Airway Conference. Lucerne, Switzerland, Jan 18-19, 2006.
44. Gene-environment interaction in asthma. Epidemiology Department monthly seminar, University of North Carolina School of Public Health, Chapel Hill, NC, Mar 7, 2007.
45. Determinants of susceptibility to air pollution and their global distributions. Health Effects Institute annual conference, Apr 16, 2007.

46. Gene-environment interaction in asthma. Airway Biology Forum Seminar Series, Duke University Medical Center, Durham, NC. May 11, 2007.
47. Gene-environment interaction in asthma. Early Training Session. International Society for Environmental Epidemiology annual meeting. Mexico City, Mexico. Sep 7, 2007.
48. Gene-environment interaction in asthma: issues to consider in designing a new birth cohort. ALLERGEN annual meeting, Banff, Canada. Feb 10, 2008.
49. Gene-environment interaction in asthma – opportunities for cross-cohort collaboration. MRC CAiTE Birth Cohorts Research Symposium. University of Bristol, Bristol, UK, Apr 21-22, 2008.
50. Drawing conclusions about gene-environment interaction in occupational and environmental lung diseases. In symposium “Genetics and Occupational/Environmental Lung Disease: informing dose-response relationships, risk modification and associated regulatory approaches”. American Thoracic Society International Conference. May 19, 2008.
51. Air pollution, genes and asthma. In symposium “Candidate Interactions in Asthma and COPD”. American Thoracic Society International Conference. May 20, 2008.
52. “Gene-Environment Interaction: Issues to Consider”. Geni Mini-Symposium hosted by the Gene Environment Initiative at Harvard School of Public Health. Boston, MA. Oct 3, 2008.
53. “Gene-Environment Interactions”. Training Session. International Society for Environmental Epidemiology 2008 Joint Annual Conference. Pasadena, CA. Oct 15, 2008.
54. “Genome-wide association studies of asthma and pulmonary function”. University of Texas Houston School of Public Health, Houston, TX. Sep 22, 2009.
55. “Genome-wide association studies of asthma and pulmonary function”. Duke University, Durham, NC. Jan 29, 2010.
56. “Health effects of climate change”. American Association of Asthma, Allergy and Immunology Annual Conference. Plenary session. Feb 28, 2010.
57. “Genome-wide association studies of pulmonary function”. DIR highlight talk at NIEHS Council. Feb 18, 2010.
58. “Gene by air pollution interaction in childhood respiratory health”. Health Effects Institute Annual Conference, Alexandria, VA. Apr 27, 2010.
59. “Gene by air pollution interaction in respiratory disease”. Symposium “Individual Susceptibility to Air Pollution”. American Thoracic Society International Conference. New Orleans, LA. May 17, 2010.

60. "Genes, smoking and lung function: experience for large scale analysis". Symposium "Gene-environment interactions using genome-wide data". Karolinska Institute, Stockholm, Sweden. Aug 29, 2011.
61. "Genome-wide studies of pulmonary function". University of Nebraska at Omaha School of Public Health. Dec 7, 2011.
62. "Genome-wide interaction of smoking in relation to pulmonary function". Symposium "Inhaled exposures, genetics and airways disease: a view towards prevention". American Thoracic Society International Conference. San Francisco CA, May 23, 2012.
63. "Epigenome wide association study of methylation changes in relation to exposure to maternal smoking *in utero*" 2<sup>nd</sup> Annual Duke Epigenetics and Epigenomics Program Colloquium. Durham, NC. Nov 14, 2012.
64. "Genome-wide interactions with smoking: done two ways. Environmental Health Colloquium. Harvard School of Public Health. Boston MA. Mar 14, 2013.
65. Charles and Edith McGill Visiting Professorship in Occupational and Environmental Medicine. Vanderbilt University. February 3, 2014. Lecture: "Genome wide interaction with smoking – genetic and epigenetic".
66. "Genome-wide interactions with smoking". Annual Conference of the Health Effects Institute. May 6, 2014. Alexandria VA.
67. "Smoking and the Epigenome Across the Lifecourse". James L. Whittenberger Lecture. Harvard School of Public Health. November 19, 2014. Boston, MA.
68. "Genome Wide Association Studies of Pulmonary Function". UNC Department of Genetics. December 3, 2014.
69. "Smoking the Epigenome Across the Lifecourse". Langmuir Lecture, American Epidemiological Society. Berkeley, CA. March 26, 2015.
70. "Smoking the Epigenome Across the Lifecourse: Relevance to Childhood Asthma". Symposium: Genetics and Epigenetics of Environmentally-Induced Asthma. American Thoracic Society 2015 International Conference. Denver CO. May 18, 2015.
71. "Genome wide approaches to studying interactions". 2015 International Congress of the European Respiratory Society. Amsterdam, The Netherlands. September 25, 2015.
72. "In utero exposures and DNA methylation profiles in offspring: maternal smoking as a test case". Institute of Environmental Medicine Conference: Application of "Big Data" in Environmental Medicine. Karolinska Institute, Stockholm Sweden. October 20, 2016.
73. "Maternal Smoking in Pregnancy and Genome Wide DNA Methylation in Newborns: Test Case for Studying in Utero Exposures in Consortia". 2016 Jinling

Reproductive Medicine International Frontier Forums & Global Symposium on Construction and Application of Birth Cohort. Nanjing, China. Nov 20, 2016.

74. "Maternal Smoking in Pregnancy and Genome Wide DNA Methylation in Newborns: Test Case for Studying *in utero* Exposures in Consortia". Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center Seminar Series. University of Colorado Anschutz Medical Campus. Jan 9, 2017
75. Methylation in offspring as a window into *in utero* exposure. 7<sup>th</sup> Annual RHINESSA Conference. Solstrand, Norway. May 31, 2017.
76. Introduction to Epigenetics. DoHAD2017 Training Workshop in Epigenetics. Rotterdam, the Netherlands. October 15, 2017.
77. Maternal Smoking and Newborn Methylation. DoHAD2017. Rotterdam, the Netherlands. October 17, 2017.

#### **Consultant to Extramural Studies**

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| 1997-2002 | Lenore Arab, PhD. University of North Carolina School of Public Health. Fatty acids and tumor characteristics in breast cancer. NCI R01 CA754504   |
| 1997-2003 | Ronald Ross, MD. Dietary factors in the etiology of cancer in Shanghai. NC1 R01CA43092   |
| 1999-2004 | Henry Gong, MD, Respiratory Disease and Prevention. (EPA-NIEHS Centers for Children's Environmental Health and Disease Prevention). Project – Children's Susceptibility to Air Pollution, Frank Gilliland, MD, PhD, PI. 5P01ES09581. |
| 2007-2011 | Patrick Breysee, PI. Center for Childhood Asthma in the Urban Environment, Project 3 - Nrf2 Dependent Regulation of Oxidative Stress in Asthma, Shyam Biswal, PI. P50ES015903.   |
| 2008-2012 | Esteban Burchard, PI. Whole Genome Analyses for Asthma in Latino Populations. R01HL088133  |

#### **Extramural Funding Prior to Joining the NIEHS Intramural Program**

Short-term and long-term exposure to ozone and particulate air pollution and respiratory health in Southern California Children, Principal Investigator, Environmental Protection Agency. 10-01-95 through 12-31-98. \$1,759,937  
[Relinquished 11-95 when I came to NIEHS and designated Edward Avol, MS as principal investigator.]

A Genetic Marker of Lung Cancer Risk Among Blacks and Whites. Principal Investigator, State of California, Tobacco-Related Disease Research Program. 3RT-140, 7-1-90 through 6-30-93, \$ 655,160

Genetic Markers of Lung Cancer Risk Among Blacks and Whites. Principal Investigator. State of California, Tobacco-Related Disease Research Program.3RT-0403. 7-1-92 through 6-30-95, \$302,695

Epidemiologic Investigation to Identify Chronic Effects of Ambient Air Pollutants in Southern California. Co-investigator, Principal Investigator, John Peters, MD, ScD.

California Air Resources Board, Contract A033-186, 3-1-95 through 8-31-02. \$10,456,132. [Renewal of award beginning 1992]

Research Career Development Award, Principal Investigator, Stop Cancer. 3-1-93 through 2-28-96. \$150,000  
[Relinquished 11-95 when I came to NIEHS]

Magnetic Fields and Breast Cancer. Principal Investigator. 5R01-ES06912, National Institute of Environmental Health Sciences. 10-1-94 through 9-30-99, \$1,245,165 [Relinquished 11-95 when I came to NIEHS; designated John Peters, MD, ScD as principal investigator.]

Magnetic Fields and Breast Cancer, Principal Investigator, US Department of the Army, 10-1-94 through 9-30-98, \$970,528  
[Relinquished 11-95 when I came to NIEHS; designated John Peters, MD, ScD as principal investigator.]

#### **Funding, other than NIEHS intramural funding, awarded since joining NIEHS:**

"Maternal smoking in pregnancy, methylation, and asthma in offspring". Food and Drug Administration Center for Tobacco Products, via the NIH Intramural Center for Tobacco Regulatory Science. FY2013-2015. \$1,307,934 direct costs. Awarded.

#### **Funding - NIEHS Intramural**

Genetic Analyses for Epidemiologic Studies of Respiratory Disease. Role: PI. NIH/NIEHS. Project number: 1ZIAES025045-15. FY2015 total cost: \$426,426.

Genetics and Environment in Adult Respiratory, Allergic and Cardiac Disease. Role: PI. NIH/NIEHS. Project number: 1ZIAES043012-16. FY15 total cost: \$200,930.

Genetics and Environmental Factors in Childhood Respiratory and Allergic Illness. Role: PI. NIH/NIEHS. 1ZIAES049019-19. FY15 total cost: \$246,595.

Lung Health Study in the Agricultural Health Study. Role: PI. 1ZIAES102385-07  
FY15 total cost: \$307,484

#### **Research Interests**

Genetic, epigenetic and environmental factors in respiratory and allergic illness

#### **Mentoring and Research Direction**

1. Jan Lowery (1990-91) I supervised her master's thesis for the University of California, Los Angeles, Department of Environmental Health Sciences. Topic – Renal cancer in architects. Current position: Research Data Scientist, Institute for Research and Innovation, Catholic Health Initiatives, Englewood, CO.
2. Akiko Tomita (1993-94) I supervised her master's thesis in Biometry, University of Southern California School of Medicine. Topic – Fatty acids and breast cancer. Subsequently took position as a statistician at Amgen, Thousand Oaks, CA.
3. Catherine Carpenter (1993-96) I supervised her PhD thesis for the University of California, Los Angeles, Department of Epidemiology. Topic – Risk factors for lung cancer in African-Americans and Caucasians. Current position: Adjunct Asst Professor, Dept of Medicine, University of California, Los Angeles, School of Medicine.
4. Gloria David [former Gloria David-Beabes] PhD (Pharmacology) (2000-2004) Postdoctoral Intramural Research Training Award (IRTA) Fellow, Laboratory of Respiratory Biology, NIEHS. Completed NIH-Duke Masters of Clinical Research Program with NIEHS support during that time. Current position: since 8/2004 Research Scientist at Rho Federal Systems, Inc, Chapel Hill, NC.
5. Lesley Butler, PhD (Epidemiology, UNC) (2001-2003) Postdoctoral IRTA Fellow, Epidemiology Branch, NIEHS. Research Area - Dietary, genetic and environmental influences on the risk of asthma and chronic bronchitis. Awards and recognition: NIH FARE Award. Current Position: Genetech, San Francisco, CA.
6. Paivi Salo, MS (Doctoral Candidate, Environmental Health, UNC) (2000-2005) Predoctoral IRTA Fellow, Epidemiology Branch, NIEHS. Research Area - Risk factors for respiratory illness in a cohort of middle school students in Wuhan, China. Current position: Epidemiologist, Immunity, Inflammation & Disease Laboratory, NIEHS.
7. Leslie Elliot, PhD (Epidemiology, UNC) (2005-2007) Postdoctoral IRTA Fellow, Epidemiology Branch, NIEHS. [Was at NIEHS with another PI for one year and then transferred to work with me.] Current position: Coordinator, Online MPH Program, Division of Health Sciences, University of Nevada, Reno
8. Haidong Kan, PhD (Environmental Sciences, Fudan University) (2005-2007) Postdoctoral Fellow, Epidemiology Branch, NIEHS. Research area – health effects of air pollution. Award and recognition: David Bates Award, American Thoracic Society 2007 International Conference. Current position: Professor and Deputy Director, Department of Environmental Sciences, Fudan University, Shanghai, China.
9. Hao Wu, PhD (Biochemistry and Molecular Biology, Chinese Academy of Sciences) (2004) Postdoctoral Fellow, Yale University, Molecular Cellular and Development Biology. (2005-2010) Postdoctoral Fellow, Laboratory of Respiratory Biology, NIEHS. Research area – genetic susceptibility to respiratory disease. Completed NIH-Duke Masters of Clinical Research Program 2006-2008. Awards and Honors: Abstract for the American Thoracic Society 2007 International Conference selected for oral presentation in the Scientific Breakthroughs of the Year session (1 of only 5 selected out of over 4,000 abstracts). Abstract to the 2009 American Academy of Asthma, Allergy and Immunology selected for Strategic Training in Allergy Research (ST\*AR) Program which provides scientific presentation training and mentoring activities before the annual conference and pays the costs of travel. After leaving NIEHS completed Masters program in Biostatistics, North Carolina State University with paid internship at SAS. Current position: Biostatistician at Quintiles, Rockville, MD.



10. Tricia Levan, PhD (University of Wisconsin) (Summer 2005) Special Volunteer / Visiting Scientist, Epidemiology Branch. She was a Special Volunteer with me at NIEHS to further her epidemiology training under her own postdoctoral fellowship funding. Current position: Associate Professor of Internal Medicine, Associate Professor of Epidemiology, Director of Facility for Mutation and Methylation Analysis, University of Nebraska Medical Center and College of Public Health, Omaha, NE.
11. Dana Bowling Hancock, PhD (Genetics, Duke University) (2008-2010) Postdoctoral IRTA Fellow, Epidemiology Branch, NIEHS. Research area – Genome wide association studies, gene by environment interaction. Awards and recognition – 2009 NIH FARE Award and abstract selected for oral presentation. 2010 – American Thoracic Society Travel Award. Current position: Research Epidemiologist, Research Triangle Institute, RTP, NC.
12. Siri Håberg, MD, PhD (Epidemiology, University of Oslo) (August 2008-2009) Visiting Fellow, Epidemiology Branch, NIEHS (Norwegian Research Council Postdoctoral Funding). Research area: Early life factors in childhood asthma. Current position: Senior Advisor, Norwegian Institute of Public Health, Oslo, Norway.
13. Laura Loehr, MD, PhD (Epidemiology, UNC) (July 2008-August 2009) Postdoctoral IRTA Fellow, Epidemiology Branch, NIEHS. Research area: Genome wide association studies of pulmonary function and related phenotypes. Current position: Clinical Assistant Professor, Department of Medicine, UNC School of Medicine and Research Assistant Professor, Department of Epidemiology, UNC School of Public Health, Chapel Hill, NC.
14. Bonnie Joubert, PhD (Epidemiology, UNC) (Sept 2010-January 2015) Research Fellow, Epidemiology Branch, NIEHS. Research area: Genome wide methylation and prenatal exposures and childhood respiratory illness, Genome wide association studies of respiratory outcomes, Awards and recognition: NIH FARE Award 2012, NIEHS Fellow of the Year Award 2012. Awarded grant of \$95,988 from the NIH Office of Dietary Supplements for project “Maternal folic acid supplementation during pregnancy, epigenome-wide DNA methylation in cord blood, and health outcomes in children.” Abstract for the 2012 American Thoracic Society Conference selected for oral presentation in the Joe Rae Wright Scientific Breakthroughs Symposium: Biomarkers for Lung disease. Current position: Health Scientist Administrator, Division of Extramural Research and Training, NIEHS.
15. John House, PhD (Toxicology, North Carolina State University) (July 2011-January 2016) Postdoctoral IRTA Fellow, Epidemiology Branch, NIEHS. Research area: GWAS follow in mouse models. Current position: Research Scholar, Bioinformatics Research Center, North Carolina State University, Raleigh, NC.
16. Randi Bertelsen, PhD (Epidemiology and Environmental Medicine, Faculty of Medicine, University of Oslo, Norway) (August 2011-July 2013) Visiting Fellow, Epidemiology Branch, NIEHS. (Funding: Norwegian Research Council and the Fulbright Foundation). Research area: Endocrine Disrupting Chemicals in Norwegian Children and the Subsequent Risk of Asthma. Concurrent position: Post doctoral Fellow, Department of Environmental Immunology, Norwegian Institute of Public Health, Oslo, Norway. Current position: Researcher Department of Clinical Sciences, University of Bergen, Norway.
17. Maria C. Magnus, RN, MS, Candidate for PhD, University of Oslo (August 2012-June 2013) Visiting Fellow, Epidemiology Branch, NIEHS (Norwegian ExtraFoundation for Health and Rehabilitation and the Fullbright Foundation doctoral fellowship funding). Research area: Early

- life factors in childhood asthma. Current position: Department of Chronic Disease, Division of Epidemiology, Norwegian Institute of Public Health, Oslo, Norway.
18. Spencer Lacy, College Student (North Carolina State University). Summer Intern, Laboratory of Respiratory Biology. Research area: Bleomycin and allergic challenge models in an *Htr4* knock out mouse model. May-August 2013 and May-August 2014. Recognition: Summer Student Poster Award 2013.
  19. Sarah Reese, PhD (Biostatistics, Virginia Commonwealth University). Postdoctoral IRTA Fellow. Research area: Methylation in newborns in relation to maternal exposures in pregnancy and childhood health and disease. August 2013-August 2017. Current position: Postdoctoral IRTA, National Institute of Aging.
  20. Annah Wyss, PhD. (Epidemiology, UNC). Postdoctoral IRTA Fellow. Sept 2013-January 2015. Research area: Environmental and Genetic Factors in Adult Respiratory Disease. Current position: Kelly Services, part-time (16 hours/week) NIEHS contractor continuing work with me.
  21. Monica Cheng Munthe-Kaas. MD, PhD (University of Oslo, Norway). Visiting Researcher. January 2014-June 2015. Research Area: Epigenetics and environmental exposures in childhood cancer. Funded by the Norwegian Research Council and an AWC Oslo Scholarship. Current position: Physician, Department of Pediatrics, Oslo University Hospital, Norway.
  22. Emma Beckett, PhD (School of Environment and Life Sciences. University of Newcastle, Australia). Pre-doctoral Visiting Fellow funded by an Adam J Berry Memorial Scholarship administered by the Australian Academy of Science and the Foundation for the NIH. June 2014-Sept 2014. Research area: Epigenetic effects of folate in pregnancy. Current position: Postdoctoral Research Fellow, University of Newcastle, Australia.
  23. Christine Parr, PhD (University of Oslo, Norway). Guest Researcher, Epidemiology Branch. January-October 2015. Research area: Dietary factors in pregnancy and childhood asthma and allergic disease in the Norwegian Mother and Child Study. Current position: Postdoctoral Fellow, Department of Chronic Disease, Division of Epidemiology, Norwegian Institute of Public Health, Oslo, Norway. Current position: Associate Professor, Department of Nursing and Health Promotion, Oslo and Akershus University College of Applied Sciences.
  24. Brittney Baumert, MPH (University of Georgia 2015). January-July 2015, Special Volunteer, Epidemiology Branch, practicum rotation for Masters Degree program in Epidemiology, University of Georgia. August 2015-July 2016 Technical IRTA Fellow, Epidemiology Branch. Research area: Pesticide exposure in relation to respiratory phenotypes in the Agricultural Lung Health Study. Current position: PhD candidate in Environmental Health Sciences, Emory University School of Public Health, Atlanta, GA.
  25. Megan Ulmer Carnes, PhD (Genetics and Genomics, Duke University, 2014). Postdoctoral IRTA Fellow, Epidemiology Branch, June 2015-August 2016. Research area – dust endotoxin and dust microbiome in relation to farm exposures and asthma phenotypes. Current position: Principal Scientist, OmicSoft Corporation, Cary, NC.
  26. Mi Kyeong Lee, PhD (Genome Epidemiology, Seoul National University, 2011), Guest Researcher, Epidemiology Branch, January-October 2016. Research Assistant Professor, Institute of Health and Environment, Seoul National University, Korea. Research area: Genome wide studies of methylation in relation to smoking and pulmonary phenotypes.



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2. **London SJ**, Colditz GA, Stampfer MJ, Willett WC, Rosner B, Speizer FE. Prospective study of relative weight, height, and risk of breast cancer. *JAMA*. 1989;262:2853-8. PMID: 2810620.
3. **London SJ**, Colditz GA, Stampfer MJ, Willett WC, Rosner BA, Speizer FE. Prospective study of smoking and the risk of breast cancer. *J Natl Cancer Inst*. 1989;81:1625-31. PMID: 2795691.
4. Balmes J, **London SJ**, Peters JM. Isocyanates, polyurethane paints, and asthma. *West J Med*. 1990;152:172-3. PMID: 18750700; PMCID: 1002295.
5. Colditz GA, Willett WC, Stampfer MJ, **London SJ**, Segal MR, Speizer FE. Patterns of weight change and their relation to diet in a cohort of healthy women. *Am J Clin Nutr*. 1990;51:1100-5. PMID: 2349925.
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9. **London SJ**, Thomas DC, Bowman JD, Sobel E, Cheng TC, Peters JM. Exposure to residential electric and magnetic fields and risk of childhood leukemia. *Am J Epidemiol*. 1991;134:923-37. PMID: 1843457.
10. Lowery JT, Peters JM, Deapen D, **London SJ**. Renal cell carcinoma among architects. *Am J Ind Med*. 1991;20:123-5. PMID: 1867214.
11. Pike MC, Gerhardsson de Verdier M, **London S**, Bernstein L. Combined analysis of breast cancer studies. *J Natl Cancer Inst*. 1991;83:1505-7. PMID: 1833557.
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16. Longnecker MP, **London SJ**. Re: Blood levels of organochlorine residues and risk of breast cancer. *J Natl Cancer Inst*. 1993;85:1696-7. PMID: 8411248.
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18. **London SJ**. Breast-feeding and breast cancer. *N Engl J Med*. 1994;330:1682; author reply 4. PMID: 8177275.
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and PCR-based detection of two different hybrid CYP2D7P/CYP2D6 alleles associated with the poor metabolizer phenotype. *Pharmacogenetics*. 1996;6:319-28. PMID: 8873218.

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