

Jane A. Hoppin, ScD

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Education:

1995	ScD	Environmental Health and Epidemiology Harvard School of Public Health Boston, MA
1991	SM	Environmental Health Sciences Harvard School of Public Health Boston, MA
1985	BS	Environmental Toxicology University of California, Davis

Research and Professional Experience

2013-present	Associate Professor with Tenure , Department of Biological Sciences, College of Sciences. North Carolina State University, Raleigh, NC
2013-present	Deputy Director , Center for Human Health and the Environment, North Carolina State University.
2014-present	Faculty Fellow , Genetic Engineering and Society Program, North Carolina State University, Raleigh, NC
2005-2013	Staff Scientist . Epidemiology Branch. National Institute of Environmental Health Sciences. Research Triangle Park, NC
2010-2013	Adjunct Professor . Department of Environmental and Molecular Toxicology. College of Agriculture and Life Sciences. North Carolina State University, Raleigh, NC
1999-2005	Research Fellow . Epidemiology Branch. National Institute of Environmental Health Sciences. Research Triangle Park, NC
1999-present	Adjunct Assistant Professor . Department of Epidemiology. University of North Carolina, Chapel Hill.

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- 1996-1999 **Research Assistant Professor.** Department of Environmental and Occupational Health, Rollins School of Public Health, Emory University. Atlanta, GA.
- 1995-1996 **Research Fellow.** Harvard School of Public Health. Boston, MA.
1988-1990 **Associate.** Clement International Corporation. San Francisco, CA.
Preparation of risk assessments for Superfund sites and other hazardous waste sites.
- 1985-1987 **Regional Team Member.** Ecology and Environment, Inc. San Francisco, CA. EPA's Technical Assistance Team providing technical expertise and sampling for hazardous material incidents.

Teaching Experience

- Guest Lecturer, University of North Carolina, Chapel Hill. “Respiratory Health of Farmers: Evaluating Exposures in the Agricultural Health Study. EPID 276 Occupational Epidemiology. Spring 2003. Primary Instructor: Dana Loomis
- Guest Lecturer, University of North Carolina, Chapel Hill. Environmental Epidemiology. November 2005, 2006. Primary Instructor: JC Chen
- Guest Lecturer, Duke University. Environmental Epidemiology. Cohort Studies. September 2008, 2010. Primary Instructors: Marcia Angle and Richard Kwok
- Guest Lecturer. PopMed Forum, NCSU – College of Veterinary Medicine, “What can we learn from farmers about respiratory disease.” VPH 650. January 2013. Instructor: Jay Levine
- Guest Lecturer, NCSU, Food Science Department. “Chemicals Introduced During Food Production: Phthalates and BPA. FS5409 Food safety and Public Health. February 2014. Instructor: Sophia Kathariou
- Guest Lecturer, NCSU, Food Science Department. “Investigating the Human Health Effects of Pesticides” FSA 580 Professional Development and Ethics in Food Safety. Instructor: Sophia Kathariou. Spring 2014.
- Guest Lecturer, NCSU, Public Administration Program: MPA Capstone Class. “Understanding the Flint Water Crisis” PA598 Instructor: RaJade Berry-James. Spring 2017
- Guest Lecturer, NCSU, Toxicology Program. Tox704 Chemical Risk Assessment. “Occupational Exposure to Pesticides: Exposure Assessment and Epidemiology” “Non-occupational pesticide exposure” Instructor: Ron Baynes Spring 2017

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Guest Lecturer, NCSU, Toxicology Program. TOX820B. Responsibility in Science. “Human Subjects Research. Lead Instructor: James Bonner

Lecturer, NCSU, Toxicology Department. “Epidemiology” TOX710. February 2013-4.
Primary Instructor: Jun Ninomiya-Tsuji. “Exposome” April 2015-7

Lecturer, NCSU, Toxicology Program. “Environmental Exposure Assessment” “Epidemiology” TOX 715, Lead Instructor: David Buchwalter.

Lecturer, NCSU, Toxicology Program. “Epidemiology” TOX 701. Lead Instructor: Seth Kullman

Lecturer, NCSU, EA590/591. “Agricultural Chemicals”, “Respiratory Toxicology”. Lead Instructor: Catherine LePrevost. Fall 2016

Co-instructor, NCSU, EA 590/AEC592: Agricultural Chemical Risk Assessment. “Agricultural Chemicals”, “Non-occupational exposure routes and effects of agricultural chemicals” “Pesticide Exposure Assessment for Applicators” “Epidemiology of Pesticides”. Fall 2017

Instructor, NCSU, BIO484006: Capstone course: Lead Exposure and Human Health. Spring 2018.

Mentoring

Co-Thesis advisor (with Paige Tolbert) for 2 MPH (Epidemiology) students (Maria Mirabelli, Matt Garabedian). Topics: Chlorophenol exposure and nasal and nasopharyngeal cancer and Occupational risk factors for non-Hodgkin’s lymphoma. September 1997 to August 1998.

NIEHS Summers of Discovery Students, NIEHS, 2002: Neepa Ray and Amitpal Singh. 2004: Chris Trent. 2007: Shile Dayton, Arwen Frick-Cheng, Katherine Mills. 2010: Jessica Rinsky, Anne Starling

Post-doctoral advisor to Ellen Kirrane, NIEHS, 2003-4
Ahmed Mohamed, NCSU, 2016-7

Mentor to Martin Valcin, ASPH fellow, June 2005-Sept 2006.
Jenna Waggoner, ASPH Fellow, Sept 2008 – Nov 2010
Stacy Endres, ASPH Fellow Sept 2010— August 2011

Doctoral Committee Member.

Sarah Starks, University of Iowa. 2008-2010;
Jessica Rinsky, University of North Carolina, Chapel Hill, 2013-defended March 2015
Jill Lebov, University of North Carolina, Chapel Hill, 2013-defended June 2014
Gina Hilton, NCSU (Toxicology Program), 2013-2017
Jennifer Wei, NCSU (Statistics), 2015-2017

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Catherine Wise, NCSU (Toxicology) 2016-date
Marissa Kosnik, NCSU (Toxicology) 2017- date
Nino Abashidze, NCSU (Ag Econ) 2018-date

Ad-hoc member for Sharon Myers, University of North Carolina 2008-2010

Summer Student Mentor: Liya Thomas, high school student, 2016
Student Researchers:

Paula Strassle, UNC, Summer 2015
Jonathan Fix, UNC, Spring-Summer 2017-2018
Adrien Wilkie, UNC, Spring 2018 -
Jessica Islam, UNC, Fall 2017 -

Undergraduate Research Advisor: Serene Ahmad 2017-2018 (UHS Scholar); Marjorie (Naila) Segule 2017-date (Park Scholar), Alison Plumley, 2018-date (McNair Scholar)

Professional Activities:

Advisory Board Member, North Carolina Occupational Safety and Health Education Resource Center, UNC, March 2002 – date.

Councilor, International Society for Exposure Analysis, July 2001 – 2004.
Mentor, International Society for Exposure Science, 2010-date

Member of the International Society for Exposure Science, International Society of Environmental Epidemiology, American Thoracic Society.

NIEHS Institutional Review Board Member, July 2007-June 2013

University of Medicine and Dentistry of New Jersey School of Public Health External Advisory Committee member, March 2009 – July 2013

Steering Committee Member, AGRICOH (International Cohort Consortium for studies of agricultural workers and their families), IARC, 2010-date

External Advisory Committee Member. Great Plains Center for Agricultural Health. University of Iowa. December 2010 – date.

Member, NC Agromedicine Institute, 2011-date

Member, North Carolina Department of Natural Resources, Division of Air Quality, Scientific Advisory Board on Toxic Air Pollutants, June 2014-2017

Member, University Standing Committee on Extension, Engagement and Economic Development, July 2014-2016

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Co-chair, 2017 International Society for Exposure Science Meeting, Raleigh, NC

Search Committee Member:

Department Head for Population Health and Pathobiology, College of Veterinary Medicine, Fall 2013-Spring 2014

Department of Population Health and Pathobiology, College of Veterinary Medicine, Transboundary Epidemiologist, Fall 2016- March 2017

Global Wash Cluster, NCSU, Fall 2016 to Jan 2018

Post tenure review committee, Department of Biological Sciences, 2017

Editorships

Editorial Board Member, Environmental Epidemiology, Sept 2017-date

Associate Editor, PlosONE. Jan 2016 – date

Associate Editor, Environmental Health Perspectives. March 2014 – date

Guest Editor. Special Issue on “Pesticides and Health.” International Journal of Environmental Research and Public Health. July 2010 – Dec 2011

Associate Editor, American Journal of Epidemiology. Aug 2000 – Sept 2009

Editorial Board Member, Journal of Occupational Medicine and Toxicology, November 2004 – date

Reviewer for American Journal of Respiratory and Critical Care Medicine, American Journal of Epidemiology; Annals of Allergy, Asthma and Immunology; Cancer Causes and Control, Cancer Epidemiology Biomarkers and Prevention, Chest, Environmental Health Perspectives, Environment International, Environmental Research, Environmental Science and Technology, Epidemiology, Journal of Air and Waste Management, Journal of Agricultural Safety and Health, Journal of Exposure Analysis and Environmental Epidemiology, Lancet, Occupational and Environmental Medicine, PNAS, Pediatrics, Salud Publica, and Thorax.

Committees and Workshops

Organizing Committee Member and Invited Participant for “The Role of Human Exposure Assessment in the Prevention of Environmental Disease.” Rockville, MD. Sept 1999.

Invited Participant “Epidemiology in the 21st Century.” Raleigh, NC. Nov 1999.

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Symposium Chair, Nuts and Bolts of Epidemiology. Congress of Epidemiology. Toronto, June 2001

Organizing Committee Member and Invited Participant for “NIEHS Phthalate Workshop” RTP, NC March 2003

American Thoracic Society 2004 Symposium Organizer (with Joel Kline, Univ of IA). Agricultural Exposures and Airway Inflammation: A Neglected Occupational Target. Orlando, FL May 2004

Invited Chair. Collegium Ramazzini meeting. Framing the Future in light of the past: Living in a Chemical World; Bologna, Italy September 2005.

Organizing committee for International Society of Exposure Analysis meeting, Durham, NC, Oct 2007

Symposium Chair, “Personal Exposure Assessment Tools for use in Large Scale Epidemiologic Studies” ISEE/ISEA Pasadena, CA Oct 2008

Panel Member: PhenX Environmental Exposures Working Group. NHGRI. 2008-2010.

Exposure Ontology Working Group Member. American Chemistry Council and Mount Desert Island Biological Laboratory. January 2010 – 2013.

Workgroup Participant. Optimizing Exposure Metrics for the National Children’s Study. Environmental Protection Agency. Winter 2010.

Organizer with Rob Smart (NCSU). “Evaluating the Health Effects to Local Communities of Confined Animal Feeding Operations (CAFOs)” North Carolina State University, November 11, 2010

Invited Participant, Agricultural Cohort Consortium meeting, IARC, Lyon France, October 2010.

Invited Participant, All of Us Workshop, NIH, Rockville, MD, March 2018

Invited Presentations

“Assessing Human Exposure to Phthalates: Implications for Epidemiology Studies” presented at “Gender Differences in Reproductive Biology and Toxicology.” Tucson, AZ. Nov 2000.

“Assessing Human Exposure to Phthalates: Implications for Epidemiology Studies” Norwegian Institute of Public Health and Norwegian Institute for Occupational Safety and Health. Oslo, Norway. September 2001

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“Assessing Human Exposure to Phthalates: Characterizing Exposure in a Sensitive Subpopulation, Pregnant Women.” University of North Carolina Chapel Hill. Dec 2001

“Predictors of Wheeze among Farmers in the Agricultural Health Study.” Wake Forest University. Winston-Salem, NC. May 2002

“Assessing Human Exposure to Phthalates: Implications for Epidemiology Studies.” Emory University, Rollins School of Public Health. Atlanta, GA. June 2002

“International Symposium on Agricultural Exposures and Cancer: Exposure Assessment” Green College, Oxford, England, November 2002. Invited Discussant

“Respiratory Health of Farmers: Evaluating Exposures in the Agricultural Health Study” Epidemiology seminar series. University of South Carolina, Arnold School of Public Health. Columbia, SC. April 2004.

Respiratory Health of Farmers: Evaluating Exposures in the Agricultural Health Study” Environmental Health Sciences speaker series. University of Georgia. “Athens, GA. April 2004.

“Agricultural Health Study in North Carolina: Results to date.” 2004 Annual Meeting of the Southern Region Pesticide Safety Education Program. Asheville, NC June 2004

Phthalates and Human Health Effects: Epidemiology Overview.” Phthalate Esters and Reproductive Health Workshop. European Council for Plasticisers and Intermediates and the American Chemistry Council. “Mello, France September 2004.

“Investigation of the Respiratory Health of Farmers and Their Families in the Agricultural Health Study.” University of North Carolina, Greensboro Biology Department Seminar Series. Greensboro, NC November 2004.

“Investigation of Environmental Exposures and Chronic Disease in Rural Communities: The Agricultural Health Study” The Institute of Medicine’s Roundtable on Environmental Health Sciences, Research, and Medicine. Rebuilding the Unity of Health and the Environment in Rural America. University of Iowa, Iowa City, IA. November 2004

“Pesticide Exposure and Respiratory Outcomes in the Agricultural Health Study” NIOSH, Morgantown, WV. August 2005.

“Pesticide Exposure and Adult Respiratory Outcomes” Collegium Ramazzini meeting. Framing the Future in light of the past: Living in a Chemical World; Bologna, Italy September 2005.

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“Pesticide Exposure and Respiratory Outcomes in the Agricultural Health Study”
University of Arizona, Respiratory Studies Group. Tucson, AZ. Nov. 2005.

“Assessing Human Exposure to Phthalates: Implications for Epidemiology Studies”
University of Medicine and Dentistry of New Jersey, Piscataway, NJ. March 2006

“Respiratory disease in the Agricultural Health Study” Environmental Health Sciences
Research Center Retreat. University of Iowa. June 2006

“Recent findings from the Agricultural Health Study”. North Carolina Public Health
Association meeting, Research Triangle Park, NC Sept 2007

“Biomarkers in Epidemiology: The best thing since sliced bread or just another tool?”
EPA/American Chemical Council meeting on “Public Health Applications of Human
Biomonitoring” Research Triangle Park, NC. Sept 2007.

“Respiratory Findings from the Agricultural Health Study.” Emory University, Rollins
School of Public Health, Environmental and Occupational Epidemiology Department
Seminar Series. April 2008

“Respiratory Findings from the Agricultural Health Study.” National Institute for
Occupational Safety and Health. Cincinnati, Ohio. June 2008

“The Agricultural Health Study: Recent Findings.” Sigma Xi, Research Triangle Park,
NC. April 2008.

“Respiratory Findings from the Agricultural Health Study.” Public Health and the Rural
Ecosystem Meeting, Saskatoon, Saskatchewan, Oct 2008.

“Pesticides and Asthma: What do we know?” California Asthma Research Summit. San
Francisco, CA. Dec 2008.

“Respiratory Findings from the Agricultural Health Study” North Carolina State
University Toxicology Seminar Series. Raleigh, NC. Feb 2010

“Recent Findings from the Agricultural Health Study” Invited Plenary Speaker. National
Institute for Farm Safety meeting, Wilmington, NC. June 2010.

“Respiratory Findings from the Agricultural Health Study” Agrisafe network Webinar,
October 2010.

“Respiratory Findings from the Agricultural Health Study” UNC, Chapel Hill. October
2010.

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Staff Scientist of the Year Presentation “Respiratory and Allergic Outcomes in Farming Adults” NIEHS. November 2010.

“Role of Pesticides in Upper and Lower Respiratory Disease” Invited Symposium Speaker. American Academy of Allergy Asthma and Immunology Annual meeting. San Francisco, CA March 2011

Invited Speaker. International Workshop on Environmental and Occupational Diseases Related to Agriculture. Chulalongkorn University, Bangkok Thailand. July 2011

“Pesticides and Cancer: Exposure Assessment Issues and Opportunities.” International Symposium “Cancers and Environmental Exposure”. Organized by the ANSES (French agency for food, environmental and occupational health and safety). Paris, France. Dec 2011.

“Pesticides and Allergic Outcomes in Farming Adults” Universidad Nacional, Heredia, Costa Rica. July 2012.

Leaders in Environmental Health, Harvard School of Public Health, Department of Environmental Health Colloquium Series 2012-2013, November 2012. “What Can We Learn from Farmers About Respiratory Disease?”

“Human Exposure to Phthalates and Health Effects”. East Carolina Brody School of Medicine, Obesity and Metabolism Seminar Series. February 2014

“Pesticides and Respiratory Symptoms: Using polytomous regression to identify differences” Environmental Statistics Seminar, Department of Statistics, North Carolina State University. October 2014.

“Pesticides and Respiratory Outcomes” Pulmonary Grand Rounds, Duke School of Medicine. October 2014.

“Cancer in Agricultural Populations” NC Agromedicine Institute, Agromedicine Training Course, Kannapolis, NC. March 2015.

“Gender differences in occupational Pesticide Exposure” University of Michigan, School of Public Health, Ann Arbor, MI. April 2015

“Endotoxin and Phthalate Exposure: Respiratory Health Effects”. UNC Chapel Hill, Occupational and Environmental Epidemiology Seminar series. November 2015

“Protecting the Pesticide Applicators: What Health Centers Need to Know” Webinar for Farmworker Justice. With Catherine LePrevost. November 2015.

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“Pesticides and Respiratory Outcomes: Implications for Human Health.” Duke University, ITEHP Seminar Series. January 2016.

“Pesticides are Respiratory Hazards: Findings from the Agricultural Health Study.” UNC Cardiovascular Epidemiology Seminar Series. Nov 2016

Emerging Contaminants in NC: GenX and other PFAS. NC-EDC meeting, NIEHS, February 2018

“GenX in NC: Science to Address Community Concerns”. Keynote Speaker at the Ecology and Environment Sciences, Spring 2018 Gathering. April 2018

“GenX Exposure Study.” UNC Environmental/Occupational Epidemiology Seminar Series, April 2018.

“GenX: Solving Environmental and Public Health Challenges through Interdisciplinary Research at NC State” 2018 NCSU Research Retreat hosted by the Office of Research, Innovation, and Economic Development (ORIED) with Detlef Knappe. April 2018

Grant Reviews

Grant Reviewer for NIOSH’s intramural projects in support of the National Occupational Research Agenda. March 2002

Grant Reviewer for American Chemistry Council’s RFP “Understanding Exposure to Volatile Air Toxics.” Jan 2003

Pilot project reviewer for NIEHS Center Grants (Harvard School of Public Health, July 2003; UNC, Spring 2008; University of Washington, Spring 2008)

Reviewer for Cooperative Grants Program of the U.S. Civilian Research and Development Foundation (CRDF). April 2004.

Member NIOSH Agriculture Center Program grant review panel, June 2004, May 2006, June 2011

Grant Reviewer for French Agency on Cancer. May 2007.

Grant Reviewer for South African Medical Research Council, September 2009, 2011

Grant Reviewer for the Thrasher Research Fund, August 2010

Grant Reviewer for NIEHS GEOHealth Program, March 2015

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Pilot project reviewer for University of IA Center for Human Health Effects of Environmental Contaminants, February 2016

Packard fellowship, NC State In house reviewer. February 2016

NIH Grant Reviewer for ECHO Program, June 2016

NIH Grant Reviewer for the NIEHS ONES Program, June 2018

Honors and Awards:

Outstanding Abstract by a New Investigator Award. Awarded at the International Society of Environmental Epidemiology meeting in Boston, MA. August 1998.

Bronze medal for Commendable Service. US Environmental Protection Agency. "For outstanding exposure research support to the interagency Agricultural Health Study" September 2010.

Outstanding Staff Scientist of the Year Award, NIEHS, 2010.

Leaders in Environmental Health, Harvard School of Public Health, Department of Environmental Health Colloquium Series 2012-2013, November 2012

BIBLIOGRAPHY

Peer-reviewed journals

1. Hauser R, Elreedy S, **Hoppin JA**, Christiani DC. Airway obstruction in boilermakers exposed to fuel oil ash: a prospective investigation. *Am J Resp Crit Care Med.* 1995;152:1478-84. PMID: 7582280
2. Hauser R, Elreedy S, **Hoppin JA**, Christiani DC. Upper airway response in workers exposed to fuel oil ash: nasal lavage analysis. *Occup Environ Med* 1995;52:353-358. PMID: 7795759
PMC1128229
3. **Hoppin JA**, Aro ACA, Williams PL, Ryan PB, Hu H. Validation of K-XRF bone lead measurement in young adults. *Environ Health Perspect* 1995; 103:78-83. PMID: 7628429
PMC1519058
4. **Hoppin JA**, Elreedy S, Ryan PB. Validation of a self-administered lead exposure questionnaire among suburban teenagers. *Environ Res* 1997;74:1-10. PMID: 9339208
5. **Hoppin JA**, Aro ACA, Ryan PB, Hu H. *In Vivo* bone lead measurement in suburban teenagers. *Pediatrics* 1997;100:365-70. PMID: 9282707

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6. **Hoppin JA**, Tolbert PE, Herrick RF, Freedman DS, Ragsdale BD, Horvat KR, Brann EA. Occupational chlorophenol exposure and soft tissue sarcoma risk among men aged 30 to 60 years. *Am J Epidemiol* 1998; 148:693-703. PMID: 9778176
7. **Hoppin JA**, Tolbert PE, Flagg EW, Blair A, Zahm SH. Use of a life events calendar approach to elicit occupational history from farmers. *Am J Ind Med* 1998;34:470-6. PMID: 9787851
8. Blanck HM, Tolbert PE, **Hoppin JA**. Patterns of genetic alterations in pancreatic cancer: A pooled analysis. *Environmental and Molecular Mutagenesis* 1999;33:111-22. PMID: 10217065
9. Garabedian MJ, **Hoppin JA**, Tolbert PE, Herrick RF, Brann EA. Occupational Chlorophenol exposure and non-Hodgkin's lymphoma. *J Occup Environ Med* 1999;41:267-272. PMID: 10224592
10. **Hoppin JA**, Tolbert PE, Flanders WD, Zhang H, Daniels DS, Ragsdale BD, Brann EA. Occupational risk factors for sarcoma subtypes. *Epidemiology* 1999;10:300-306. PMID: 10230842
11. **Hoppin JA**, Aro A, Hu H, and Ryan PB. Measurement variability associated with KXRF bone lead measurement in young adults. *Environ Health Perspect* 2000;108:239-242. PMID: 10706530 PMC1637955
12. **Hoppin JA**, Tolbert PE, Holly EA, Brock JW, Korrick SA, Altshul LM, Zhang RH, Bracci PM, Burse VW, Needham LL. Pancreatic cancer and serum organochlorine levels. *Cancer Epidemiology Biomarkers and Prevention*, 2000; 9:199-205. PMID: 10698482
13. Slebos RJC, **Hoppin JA**, Tolbert PE, Holly EA, Brock JW, Zhang RH, Bracci PM, Foley J, Stockton P, McGregor LM, Flake G, Taylor JA. K-ras and p53 in pancreatic cancer: Association with medical history, histopathology, and environmental exposures in a population-based study. *Cancer Epidemiology Biomarkers & Prevention*, 2000;9:1223-32. PMID: 11097231
14. Mirabelli MC, **Hoppin JA**, Tolbert PE, Herrick RF, Gnepp DR, Brann EA. Occupational exposure to chlorophenol and the risk of nasal and nasopharyngeal cancers among US men aged 30 to 60. *Am J Ind Med*. 2000;37:532-541. PMID: 10723047
15. **Hoppin JA**, Williams PL, Ryan PB. A conceptual framework for the interpretation of biological markers for exposure assessment. *Hum Ecol Risk Assess*. 2000;6:711-725.
16. **Hoppin JA**, Guzman JD, Tolbert PE, Flagg EW. Agricultural Exposure History among African-American Farmers in Georgia. *J Toxicol Environ Health Part A*. 2001;63:237-41. PMID: 11437057

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17. **Hoppin JA**, Tolbert PE, Taylor JA, Schroeder JC, Holly EA. Potential for selection bias with tumor tissue retrieval in molecular epidemiology studies. *Ann Epidemiol*, 2002; 12:1-6. PMID: 11750233
18. Dosemeci M, Alavanja MCR, Rowland AS, Mage D, Zahm SH, Rothman N, Lubin JH, **Hoppin JA**, Sandler DP, Blair A. A quantitative approach for estimating exposure to pesticides in the Agricultural Health Study. *Ann Occ Hyg* 2002; 46: 245-260. PMID: 12074034
19. **Hoppin JA**, Umbach DM, London SJ, Alavanja MCR, Sandler DP. Chemical Predictors of Wheeze among Farmer Pesticide Applicators in the Agricultural Health Study. *Am J Resp Crit Care Med*. 2002;165:683-9. PMID: 11874814
20. **Hoppin JA**, Brock JW, Davis BJ, Baird DD. Reproducibility Of Urinary Phthalate Metabolites In First Morning Urine Samples. *Environ Health Perspect*. 2002; 110:515-518. PMID: 12003755 PMC1240840
21. Parks CG, Cooper GS, Nylander-French LA, Sanderson WT, Dement JM, Cohen PL, Dooley MA, Treadwell EL, St Clair W, Gilkeson GS, **Hoppin JA**, Savitz DA. Occupational exposure to crystalline silica and risk of systemic lupus erythematosus: a population-based case-control study in the Southeastern United States. *Arthritis Rheum* 2002; 46:1840-1850. PMID: 12124868
22. **Hoppin JA**, Yucel F, Dosemeci M, Sandler DP. Accuracy of self-reported pesticide use duration information from licensed pesticide applicators in the Agricultural Health Study. *J Expo Anal Environ Epidemiol*. 2002;12:313-8. PMID: 12198579
23. Coble J, **Hoppin JA**, Engel L, Elci OC, Dosemeci M, Lynch CF, Alavanja M. Prevalence of exposure to solvents, metals, grain dust and other hazards among farmers in the Agricultural Health Study. *J Expo Anal Environ Epidemiol*. 2002;12:418-26. PMID: 12415490
24. Alavanja MCR, Samanic C, Dosemeci M, Lubin J, Tarone R, Lynch CF, Knott C, Thomas K, **Hoppin JA**, Barker J, Coble J, Sandler DP, Blair A. Use of agricultural pesticides and prostate cancer risk in the Agricultural Health Study Cohort. *Am J Epidemiol*. 2003;157:800-814. PMID: 12727674
25. **Hoppin JA**, Umbach DM, London SJ, Alavanja MCR, Sandler DP. Animal production and wheeze in the Agricultural Health Study: Impact of atopy, asthma, and smoking. *Occup Environ Med*. 2003;60:3e1-7. PMID: 12883030. PMC1740584
26. Alavanja MCR, Sandler DP, Lynch C, Knott C, Lubin JH, Tarone R, Thomas K, Dosemeci M, Barker J, **Hoppin JA**, Blair A. Cancer incidence in the Agricultural Health Study. *Scand J Work Env Health* 2005;31: 39-45 Suppl. 1 PMID: 16190148.

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27. Lee WJ, **Hoppin JA**, Blair A, Lubin JH, Dosemeci M, Sandler DP, Alavanja MCR. Cancer Incidence among Pesticide Applicators exposed to Alachlor in the Agricultural Health Study. *Am J Epidemiol* 2004;159:373-80. PMID: 14769641.
28. White KE, **Hoppin JA**. Seed treatment and its implication for fungicide exposure assessment. *J Expo Anal Environ Epidemiol* 2004;14:195-203. PMID: 15141148
29. Parks CG, Cooper GS, Nylander-French LA, **Hoppin JA**, Sanderson WT, Dement JM. Comparing questionnaire-based methods to assess occupational silica exposure. *Epidemiol* 2004; 15:433-441. PMID: 15232404
30. Quandt SA, Arcury TA, Rao P, Mellen BG, Camann DE, Doran AM, Yau AY, **Hoppin JA**, Jackson DS. Agricultural and Residential Pesticides in Wipe Samples from Farmworker Family Residences in North Carolina. *Environ Health Perspect*. 2004;112: 382-387. PMID: 14998757 PMC1241871
31. Alavanja MCR, **Hoppin JA**, Kamel F. Health Effects of Chronic Pesticide Exposure: Cancer and Neurotoxicity. *Annual Review of Public Health*. 2004;25:155-97. PMID: 15015917
32. Flower KB, **Hoppin JA**, Lynch CF, Blair A, Knott C, Shore D, Sandler DP. Cancer Risk and Parental Pesticide Application In Children of Agricultural Health Study Participants. *Environ Health Perspect* 2004;112:631-5. PMID: 15064173 PMC1241933
33. Quandt SA, Doran AM, Rao P, **Hoppin JA**, Snively BM, Arcury TA. Reporting Pesticide Assessment Results to Farmworker Families: Development, Implementation, and Evaluation of a Risk Communication Strategy. *Environ Health Perspect* 2004;112:382-7. PMID: 15064174 PMC1241934
34. **Hoppin JA**, Ulmer R, London SJ. Phthalate exposure and pulmonary function. *Environ Health Perspect* 2004;112:571-4. PMID: 15064163 PMC1241923
35. **Hoppin JA**, Umbach DM, London SJ, Alavanja MCR, Sandler DP. Diesel exhaust, solvents, and other occupational exposures as risk factors for wheeze among farmers. *Am J Resp Critical Care Med* 2004; 169:1308-1313. PMID: 15070818
36. Rusiecki JA, De Roos A, Lee WJ, Dosemeci M, Lubin JH, **Hoppin JA**, Blair A, Alavanja MCR. Cancer Incidence Among Pesticide Applicators Exposed to Atrazine in the Agricultural Health Study. *J Natl Cancer Inst*. 2004;96:1375-82. PMID: 15367570
37. Kirrane EF, **Hoppin JA**, Umbach DM, Samanic C, Sandler DP. Patterns of pesticide use and their determinants among wives of farmer pesticide applicators in the Agricultural Health Study. *J Occup Environ Med*, 2004;46:856-65. PMID: 15300138

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38. Arcury TA, Quandt SA, Rao P, Doran AM, Snively BM, Barr DB, **Hoppin JA**, Davis SW. Organophosphate Pesticide Exposure in Farmworker Family Members in Western North Carolina and Virginia: Case Comparisons. *Human Organization*. 2005;64:40-51.
39. Kamel F, **Hoppin JA**. Association of Pesticide Exposure with Neurologic Dysfunction and Disease. *Environ Health Perspect* 2004;112:950-8. PMID: 15198914 PMC1247187
40. Alavanja MCR, Dosemeci M, Samanic C, Lubin J, Lynch CF, Knott C, Barker J, **Hoppin JA**, Sandler DP, Coble J, Thomas K, Blair A. Pesticides and Lung Cancer Risk in the Agricultural Health Study Cohort. *Am J Epidemiol* 2004;160:876-85. PMID: 15496540
41. Samanic C, **Hoppin JA**, Lubin J, Blair A, Alavanja MCR. Factor Analysis of Pesticide Use Patterns Among Pesticide Applicators in the Agricultural Health Study. *J Expo Anal Environ Epidemiol*. 2005;15:225-33. PMID: 15280893
42. Engel LS, Hill DA, **Hoppin JA**, Lubin JH, Lynch CF, Pierce J, Samanic C, Sandler DP, Blair A, Alavanja MCR. Pesticide use and breast cancer risk among farmers' wives in the Agricultural Health Study. *Am J Epidemiol* 2005;161:121-35. PMID: 15632262
43. Blair A, Sandler DP, Tarone R, Lubin J, Thomas K, **Hoppin JA**, Samanic C, Coble J, Kamel F, Knott C, Dosemeci M, Zahm SH, Lynch CF, Rothman N, Alavanja MCR. Mortality among Participants in the Agricultural Health Study. *Ann Epidemiol* 2005;15:279-285. PMID: 15780775
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Grant Funding

ACTIVE

R21 ES025374-01A1 (Hoppin/Van Wendel de Joode) 2/1/2016 – 01/31/2018 1 calendar month
NIH/NIEHS \$133,362 Annual Direct Costs
Environmental pesticide exposure and respiratory outcomes in women and children

This project will assess pesticide exposure and respiratory symptoms in young children and their mothers living in the primary banana-producing region of Costa Rica, a region with high environmental pesticide exposure.

R21 ES029353 (Hoppin) 11/1/2017 – 10/31/2019 1.5 months
NIH/NIEHS \$200,000 Annual Direct Costs
Assessing impact of drinking water exposure to GenX (hexafluoropropylene oxide dimer acid) in the Cape Fear River Basin, North Carolina

The goal of this project is to conduct a community-based study to assess human exposure by measuring GenX in biological samples of community residents.

P30 ES025128-01 (Smart) 4/1/2015-3/31/2020 3 calendar month
NIH/NIEHS \$723,069 Annual Direct Costs
Center for Human Health and the Environment

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The aim of the Center for Human Health and Environment is to understand how human health, at both the individual and population level, is impacted by environmental factors and to implement this knowledge to prevent and/or reduce the adverse impacts of environment factors on human health.

Role: Deputy Director

Research and Innovation Seed Funding (RISF) grant. NCSU. Development of appropriate technologies to treat drinking water co-contaminants associated with chronic kidney disease. 01/01/2017-12/31/2017. Knappe, PI. \$25,000 direct costs.

This project focuses on using bone char to address potential application of water quality issues in developing countries. The group will specifically investigate the potential for using bone char to remove fluoride, arsenic and cadmium from well water.

Role: Collaborator

University Partnership for Global Networking (UGPN) (Hoppin/Astell-Burt, PIs) 7/1/2016-06/30/2017 An international alliance for Population, Wellbeing and Environment Research \$20,000 direct costs

The aim of this project is to build connections between NCSU's Center for Human Health and the Environment and University of Wollongong's POWER lab to identify global research opportunities. We are currently conducting an analysis of End Stage Renal Disease (ESRD) and Environmental Quality to explore the use of big data approaches to assess environmental concerns.