

Curriculum Vitae

DANA BOYD BARR, Ph.D.

**Department of Environmental Health
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EDUCATION

Georgia State University, Atlanta, GA
Chemistry Department
College of Arts and Sciences
Doctor of Philosophy, Analytical Chemistry (GPA 3.7), March 1994

Brenau University, Gainesville, GA
College of Arts and Sciences
Bachelor of Science, Biology, Magna Cum Laude (GPA 3.83), June 1987

PROFESSIONAL EXPERIENCE

2010-present	Research Professor Department of Environmental Health Rollins School of Public Health Emory University Atlanta, GA
2013-present	Co-Director, Integrated Health Sciences and Facilities Core, HERCULES Environmental Health Center
1997-2009	Chief, Pesticide Laboratory Acting Chief, Personal Care Products Laboratory Title 42 Distinguished Consultant (above GS scale 15) Supervisory Research Chemist Division of Laboratory Science National Center for Environmental Health Centers for Disease Control and Prevention

1987-1997 Research Chemist
 Division of Laboratory Sciences
 National Center for Environmental Health
 Centers for Disease Control and Prevention

HONORS AND FELLOWSHIPS

- Thomas Reuters Top Cited Scientist in Environment/Ecology, 2014, 2015 (for a 10-year span)
- Listed in Thomson Reuters World's Most Influential Scientific Minds, 2014
- Georgia State University's Distinguished Chemistry Alumnus, 2013.
- Anant Jain Founders Award for outstanding contributions and leadership of Southern Section of AOAC, 2012
- Scientific and Technological Achievement Award, 2011, EPA
- Superior Performance Award, CDC, 1989-1991 and 1994-2009 (on detail away from CDC 1992 and 1993).
- Outstanding Alumnae Award for recognition of outstanding professional achievement, 2007, Brenau University
- CDC Honor Award for Emergency Response for the Panama Diethylene Glycol Poisoning, 2007
- CDC Honor Award for Public Health Disease Prevention, GS-14 and above, 2005
- CDC Honor Group Award for development of CDC's National Reports on Human Exposure to Environmental Chemicals, 2005
- Silver Medal for Superior Service, U.S. EPA, 2005
- NCID Honor Award for West Nile Investigations, 2003.
- Federal Scientific Employee of the Year, Atlanta Area Federal Executive Board, 2003.
- NCEH Director's Award for Outstanding Scientific Collaborations, 2002.
- NCEH Director's Award for Outstanding Scientific Program Support, 2002.
- Joan Daisy Award for Outstanding Young Investigator, International Society of Exposure Assessment, 2001.
- NCEH Director's Award for superior mission response for the 2000 CDC National Report on Human Exposure to Environmental Chemicals, 2000.
- Department of Health and Human Services Secretary's Award for Distinguished Service for outstanding scientific and technical laboratory response to illegal methyl parathion application in the southern and midwestern United States, 1999.
- Department of Health and Human Services Secretary's Award for Distinguished Service for outstanding scientific and technical response to a life threatening public health emergency in Haiti, 1998.
- NCEH Director's Award for superior mission response to emergency exposure assessment of over 10,000 residents whose homes were illegally sprayed with methyl parathion, 1998.
- NCID James H. Nakano Citation for the peer reviewed journal article "Epidemic of Pediatric Deaths from Acute Renal Failure Caused by Diethylene Glycol Poisoning", JAMA 279(15):1175-1180, 1998.
- CDC/ATSDR Honor Group Award for statistical research and services as a part of the NHANES III laboratory, 1997.

- CDC's Mackel Award for exemplary collaboration between epidemiology and laboratory, 1997. (Laboratory: J Barr, D Barr, L Needham; Epidemiology: K O'Brien, J Selanikio)
- NCEH Director's Award for outstanding scientific and technical response to a life threatening public health emergency in Haiti, 1997.
- CDC/ATSDR Honor Group Award for outstanding epidemiologic and laboratory response to an outbreak of acute renal failure in Haitian children, 1997
- CDC/ATSDR Honor Group award for program operations for the Centers for Disease Control, June 1992
- Young Alumnae Award for Professional Excellence, Brenau University, May 1991.
- Nominated for the Atlanta Area Federal Employee of the Year, 1990.
- CDC/ATSDR Honor Award for Laboratory Research and Epidemiology, 1990.

PUBLICATIONS

- Summary: 291 peer-reviewed journal articles; 14 book chapters; 57 published abstracts
- Current book contract with Wiley and Sons titled *Biomonitoring of Exposure to Environmental Chemicals* scheduled for publication in early 2015
- Named a 2014 and 2015 Thomson Reuters Highly Cited Researcher, Environmental/Ecology representing top 1% of scientists in the field.
- Oral Presentations: Over 200 invited and platform presentations given at multiple meetings
- Research Gate RG Score: 45.94 (upper 2.5 percentile of Research Gate members)
- H-index=51 (median for National Academy of Science inductees=57; minimum=45)
- Average citations per year (last 4 years) = 1096 (range 912-1314)

PEER-REVIEWED JOURNAL ARTICLES

1. Radford SA, Panuwet P, Hunter RE, **Barr DB**, Ryan PB. Production of insecticide degradates in juices: Implications for risk assessment. *J Agric Food Chem*. 2016 May 23. [Epub ahead of print] PubMed PMID: 27213611.
2. Sapra KJ, **Barr DB**, Maisog JM, Sundaram R, Buck Louis GM. Time-to-pregnancy associated with couples' use of tobacco products. *Nicotine Tob Res*. 2016 May 17. pii: ntw132. [Epub ahead of print] PubMed PMID: 27190399.
3. Berg CJ, Haardörfer R, Lewis M, Getachew B, Lloyd SA, Thomas SF, Lanier A, Trepanier K, Johnston T, Grimsley L, Foster B, Benson S, Smith A, **Barr DB**, Windle M. DECOY: Documenting Experiences with Cigarettes and Other Tobacco in Young Adults. *Am J Health Behav*. 2016 May;40(3):310-21. doi: 10.5993/AJHB.40.3.3. PubMed PMID: 27103410.
4. Buck Louis GM, **Barr DB**, Kannan K, Chen Z, Kim S, Sundaram R. Paternal exposures to environmental chemicals and time-to-pregnancy: overview of results from the LIFE study. *Andrology*. 2016 Apr 7. doi: 10.1111/andr.12171. [Epub ahead of print] PubMed PMID: 27061873.
5. Watkins DJ, Fortenberry GZ, Sánchez BN, **Barr DB**, Panuwet P, Schnaas L, Osorio-Valencia E, Solano-González M, Ettinger AS, Hernández-Ávila M, Hu H, Téllez-Rojo MM, Meeker JD. Urinary 3-phenoxybenzoic acid (3-PBA) levels among pregnant women

- in Mexico City: Distribution and relationships with child neurodevelopment. *Environ Res.* 2016 May;147:307-13. doi: 10.1016/j.envres.2016.02.025. Epub 2016 Feb 27. PubMed PMID: 26922411; PubMed Central PMCID: PMC4821665.
6. Smarr MM, Grantz KL, Zhang C, Sundaram R, Maisog JM, **Barr DB**, Louis GM. Persistent organic pollutants and pregnancy complications. *Sci Total Environ.* 2016 May 1;551-552:285-91. doi: 10.1016/j.scitotenv.2016.02.030. Epub 2016 Feb 12. PubMed PMID: 26878640.
 7. Jaacks LM, **Barr DB**, Sundaram R, Maisog JM, Zhang C, Buck Louis GM. Pre-pregnancy maternal exposure to polybrominated and polychlorinated biphenyls and gestational diabetes: a prospective cohort study. *Environ Health.* 2016 Jan 20;15:11. doi: 10.1186/s12940-016-0092-5. PubMed PMID: 26792546; PubMed Central PMCID: PMC4721055.
 8. Harley KG, Engel SM, Vedar MG, Eskenazi B, Whyatt RM, Lanphear BP, Bradman A, Rauh VA, Yolton K, Hornung RW, Wetmur JG, Chen J, Holland NT, **Barr DB**, Perera FP, Wolff MS. Prenatal Exposure to Organophosphorous Pesticides and Fetal Growth: Pooled Results from Four Longitudinal Birth Cohort Studies. *Environ Health Perspect.* 2015 Dec 18. [Epub ahead of print] PubMed PMID: 26685281.
 9. Morgan MK, Sobus JR, **Barr DB**, Croghan CW, Chen FL, Walker R, Alston L, Andersen E, Clifton MS. Temporal variability of pyrethroid metabolite levels in bedtime, morning, and 24-h urine samples for 50 adults in North Carolina. *Environ Res.* 2016 Jan;144(Pt A):81-91. doi: 10.1016/j.envres.2015.11.003. Epub 2015 Nov 14. PubMed PMID: 26584066.
 10. Figueroa ZI, Young HA, Meeker JD, Martenies SE, **Barr DB**, Gray G, Perry MJ. Dialkyl phosphate urinary metabolites and chromosomal abnormalities in human sperm. *Environ Res.* 2015 Nov;143(Pt A):256-65. doi: 10.1016/j.envres.2015.10.021. Epub 2015 Oct 28. PubMed PMID: 26519831; PubMed Central PMCID: PMC4743645.
 11. Engel SM, Bradman A, Wolff MS, Rauh VA, Harley KG, Yang JH, Hoepner LA, **Barr DB**, Yolton K, Vedar MG, Xu Y, Hornung RW, Wetmur JG, Chen J, Holland NT, Perera FP, Whyatt RM, Lanphear BP, Eskenazi B. Prenatal Organophosphorus Pesticide Exposure and Child Neurodevelopment at 24 Months: An Analysis of Four Birth Cohorts. *Environ Health Perspect.* 2015 Sep 29. [Epub ahead of print] PubMed PMID: 26418669.
 12. Gaspar FW, Chevrier J, Bornman R, Crause M, Obida M, **Barr DB**, Bradman A, Bouwman H, Eskenazi B. Undisturbed dust as a metric of long-term indoor insecticide exposure: Residential DDT contamination from indoor residual spraying and its association with serum levels in the VHEMBE cohort. *Environ Int.* 2015 Dec;85:163-7. doi: 10.1016/j.envint.2015.09.014. Epub 2015 Sep 20. PubMed PMID: 26398044.
 13. Rauh VA, Garcia WE, Whyatt RM, Horton MK, **Barr DB**, Louis ED. Prenatal exposure to the organophosphate pesticide chlorpyrifos and childhood tremor. *Neurotoxicology.* 2015 Dec;51:80-6. doi: 10.1016/j.neuro.2015.09.004. Epub 2015 Sep 15. PubMed PMID: 26385760; PubMed Central PMCID: PMC4809635.
 14. Handal AJ, Hund L, Páez M, Bear S, Greenberg C, Fenske RA, **Barr DB**. Characterization of Pesticide Exposure in a Sample of Pregnant Women in Ecuador. *Arch Environ Contam Toxicol.* 2016 May;70(4):627-39. doi:10.1007/s00244-015-0217-9. Epub 2015 Aug 27. PubMed PMID: 26311023; PubMed Central PMCID: PMC4769681.
 15. Naksen W, Prapamontol T, Mangklabruks A, Chantara S, Thavornyutikarn P, Srinual N, Panuwet P, Ryan PB, Riederer AM, **Barr DB**. Associations of maternal

organophosphate pesticide exposure and PON1 activity with birth outcomes in SAWASDEE birth cohort, Thailand. *Environ Res.* 2015 Oct;142:288-96. doi:10.1016/j.envres.2015.06.035. Epub 2015 Jul 15. PubMed PMID: 26186137; PubMed Central PMCID: PMC4609250.

16. Salvatore AL, Castorina R, Camacho J, Morga N, López J, Nishioka M, **Barr DB**, Eskenazi B, Bradman A. Home-based community health worker intervention to reduce pesticide exposures to farmworkers' children: A randomized-controlled trial. *J Expo Sci Environ Epidemiol.* 2015 Nov-Dec;25(6):608-15. doi: 10.1038/jes.2015.39. Epub 2015 Jun 3. PubMed PMID: 26036987.
17. Chen H, Quandt SA, **Barr DB**, Arcury TA. Assessing Assay Variability of Pesticide Metabolites in the Presence of Heavy Left-Censoring. *J Agric Biol Environ Stat.* 2015 Mar;20(1):65-82. PubMed PMID: 26023279; PubMed Central PMCID:PMC4443874.
18. LaKind JS, Goodman M, **Barr DB**, Weisel CP, Schoeters G. Lessons learned from the application of BEES-C: Systematic assessment of study quality of epidemiologic research on BPA, neurodevelopment, and respiratory health. *Environ Int.* 2015 Jul;80:41-71. doi: 10.1016/j.envint.2015.03.015. Epub 2015 Apr 14. PubMed PMID: 25884849.
19. Bradman A, Quirós-Alcalá L, Castorina R, Schall RA, Camacho J, Holland NT, **Barr DB**, Eskenazi B. Effect of Organic Diet Intervention on Pesticide Exposures in Young Children Living in Low-Income Urban and Agricultural Communities. *Environ Health Perspect.* 2015 Oct;123(10):1086-93. doi: 10.1289/ehp.1408660. Epub 2015 Apr 10. PubMed PMID: 25861095; PubMed Central PMCID: PMC4590750.
20. Koutros S, Langseth H, Grimsrud TK, **Barr DB**, Vermeulen R, Portengen L, Wacholder S, Freeman LE, Blair A, Hayes RB, Rothman N, Engel LS. Prediagnostic Serum Organochlorine Concentrations and Metastatic Prostate Cancer: A Nested Case-Control Study in the Norwegian Janus Serum Bank Cohort. *Environ Health Perspect.* 2015 Sep;123(9):867-72. doi: 10.1289/ehp.1408245. Epub 2015 Mar 3. PubMed PMID: 25734605; PubMed Central PMCID: PMC4559951.
21. Fiedler N, Rohitrattana J, Siri Wong W, Suttiwan P, Ohman Strickland P, Ryan PB, Rohlman DS, Panuwet P, **Barr DB**, Robson MG. Neurobehavioral effects of exposure to organophosphates and pyrethroid pesticides among Thai children. *Neurotoxicology.* 2015 May;48:90-9. doi: 10.1016/j.neuro.2015.02.003. Epub 2015 Feb 24. PubMed PMID: 25721160; PubMed Central PMCID: PMC4442703.
22. Berg CJ, **Barr DB**, Stratton E, Escoffery C, Kegler M. Attitudes toward E-Cigarettes, Reasons for Initiating E-Cigarette Use, and Changes in Smoking Behavior after Initiation: A Pilot Longitudinal Study of Regular Cigarette Smokers. *Open J Prev Med.* 2014 Oct;4(10):789-800. PubMed PMID: 25621193; PubMed Central PMCID: PMC4304080.
23. Panuwet P, Hunter RE Jr, D'Souza PE, Chen X, Radford SA, Cohen JR, Marder ME, Kartavenka K, Ryan PB, **Barr DB**. Biological Matrix Effects in Quantitative Tandem Mass Spectrometry-Based Analytical Methods: Advancing Biomonitoring. *Crit Rev Anal Chem.* 2016;46(2):93-105. doi: 10.1080/10408347.2014.980775. PubMed PMID:25562585; PubMed Central PMCID: PMC4695332.
24. Zhang C, Sundaram R, Maisog J, Calafat AM, **Barr DB**, Buck Louis GM. A prospective study of prepregnancy serum concentrations of perfluorochemicals and the risk of gestational diabetes. *Fertil Steril.* 2015 Jan;103(1):184-9.

doi:10.1016/j.fertnstert.2014.10.001. Epub 2014 Oct 22. PubMed PMID: 25450302; PubMed Central PMCID: PMC4282598.

25. Rohitrattana J, Siritwong W, Tunsaringkarn T, Panuwet P, Ryan PB, **Barr DB**, Robson MG, Fiedler N. Organophosphate pesticide exposure in school-aged children living in rice and aquacultural farming regions of Thailand. *J Agromedicine*. 2014;19(4):406-16. doi: 10.1080/1059924X.2014.947457. PubMed PMID: 25275406.
26. Chen X, Panuwet P, Hunter RE, Riederer AM, Bernoudy GC, **Barr DB**, Ryan PB. Method for the quantification of current use and persistent pesticides in cow milk, human milk and baby formula using gas chromatography tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2014 Nov 1;970:121-30. doi: 10.1016/j.jchromb.2014.08.018. Epub 2014 Aug 19. PubMed PMID: 25261753.
27. Zhang J, Shen H, Xu W, Xia Y, **Barr DB**, Mu X, Wang X, Liu L, Huang Q, Tian M. Urinary Metabolomics Revealed Arsenic Internal Dose-Related Metabolic Alterations: A Proof-of-Concept Study in a Chinese Male Cohort. *Environ Sci Technol*. 2014 Oct 21;48(20):12265-74. doi: 10.1021/es503659w. Epub 2014 Oct 2. PubMed PMID: 25233106.
28. Steenland K, Mora AM, **Barr DB**, Juncos J, Roman N, Wesseling C. Organochlorine chemicals and neurodegeneration among elderly subjects in Costa Rica. *Environ Res*. 2014 Aug 27;134C:205-209. doi: 10.1016/j.envres.2014.07.024. [Epub ahead of print] PubMed PMID: 25173053.
29. LaKind JS, Sobus JR, Goodman M, **Barr DB**, Fürst P, Albertini RJ, Arbuckle TE, Schoeters G, Tan YM, Teeguarden J, Tornero-Velez R, Weisel CP. A proposal for assessing study quality: Biomonitoring, Environmental Epidemiology, and Short-lived Chemicals (BEES-C) instrument. *Environ Int*. 2014 Dec;73:195-207. doi: 10.1016/j.envint.2014.07.011. Epub 2014 Aug 17. PubMed PMID: 25137624.
30. Buck Louis GM, Chen Z, Schisterman EF, Kim S, Sweeney AM, Sundaram R, Lynch CD, Gore-Langton RE, **Barr DB**. Perfluorochemicals and Human Semen Quality: The LIFE Study. *Environ Health Perspect*. 2014 Aug 15. [Epub ahead of print] PubMed PMID: 25127343.
31. Robledo CA, Yeung E, Mendola P, Sundaram R, Maisog J, Sweeney AM, **Barr DB**, Buck Louis GM. Preconception Maternal and Paternal Exposure to Persistent Organic Pollutants and Birth Size: The LIFE Study. *Environ Health Perspect*. 2014 Aug 5. [Epub ahead of print] PubMed PMID: 25095280.
32. Schisterman EF, Mumford SL, Browne RW, **Barr DB**, Chen Z, Louis GM. Lipid concentrations and couple fecundity: the LIFE study. *J Clin Endocrinol Metab*. 2014 Aug;99(8):2786-94. doi: 10.1210/jc.2013-3936. Epub 2014 May 20. PubMed PMID: 24846535; PubMed Central PMCID: PMC4121020.
33. McKelvey W, Jacobson JB, Kass D, **Barr DB**. Biomonitoring of Exposure to Organophosphate Pesticides: McKelvey et al. Respond. *Environ Health Perspect*. 2014 Jul 1;122(7):A178-9. doi: 10.1289/ehp.1408444R. PubMed PMID: 24984157; PubMed Central PMCID: PMC4080521.
34. Furlong MA, Engel SM, **Barr DB**, Wolff MS. Prenatal exposure to organophosphate pesticides and reciprocal social behavior in childhood. *Environ Int*. 2014 Sep;70:125-31. doi: 10.1016/j.envint.2014.05.011. Epub 2014 Jun 13. PubMed PMID: 24934853.
35. Liu L, Xia T, Zhang X, **Barr DB**, Alamdar A, Zhang J, Tian M, Huang Q, Shen H. Biomonitoring of infant exposure to phenolic endocrine disruptors using urine

- expressed from disposable gel diapers. *Anal Bioanal Chem.* 2014 Aug;406(20):5049-54. doi: 10.1007/s00216-014-7908-3. Epub 2014 Jun 13. PubMed PMID: 24924209.
36. Radford SA, Panuwet P, Hunter RE Jr, **Barr DB**, Ryan PB. HPLC-MS/MS Method for the Measurement of Insecticide Degradates in Baby Food. *J Agric Food Chem.* 2014 Jul 11. [Epub ahead of print] PubMed PMID: 24910900.
37. Thompson B, Griffith WC, **Barr DB**, Coronado GD, Vigoren EM, Faustman EM. Variability in the take-home pathway: Farmworkers and non-farmworkers and their children. *J Expo Sci Environ Epidemiol.* 2014 Mar 5. doi: 10.1038/jes.2014.12. [Epub ahead of print] PubMed PMID: 24594649.
38. Mumford SL, Sundaram R, Schisterman EF, Sweeney AM, **Barr DB**, Rybak ME, Maisog JM, Parker DL, Pfeiffer CM, Louis GM. Higher urinary lignan concentrations in women but not men are positively associated with shorter time to pregnancy. *J Nutr.* 2014 Mar;144(3):352-8. doi: 10.3945/jn.113.184820. Epub 2014 Jan 8. PubMed PMID: 24401816; PubMed Central PMCID: PMC3927547.
39. Fortenberry GZ, Meeker JD, Sánchez BN, **Barr DB**, Panuwet P, Bellinger D, Schnaas L, Solano-González M, Ettinger AS, Hernandez-Avila M, Hu H, Tellez-Rojo MM. Urinary 3,5,6-trichloro-2-pyridinol (TCPY) in pregnant women from Mexico City: distribution, temporal variability, and relationship with child attention and hyperactivity. *Int J Hyg Environ Health.* 2014 Mar;217(2-3):405-12. doi: 10.1016/j.ijheh.2013.07.018. Epub 2013 Aug 13. PubMed PMID: 24001412; PubMed Central PMCID: PMC3946926.
40. Prapamontol T, Sutan K, Laoyang S, Hongsibsong S, Lee G, Yano Y, Hunter RE, Ryan PB, **Barr DB**, Panuwet P. Cross validation of gas chromatography-flame photometric detection and gas chromatography-mass spectrometry methods for measuring dialkylphosphate metabolites of organophosphate pesticides in human urine. *Int J Hyg Environ Health.* 2014 Apr-May;217(4-5):554-66. doi: 10.1016/j.ijheh.2013.10.005. Epub 2013 Nov 7. PubMed PMID: 24280209.
41. Naehler LP, **Barr DB**, Adetona O, Simpson CD. Urinary levoglucosan as a biomarker for woodsmoke exposure in wildland firefighters. *Int J Occup Environ Health.* 2013 Oct-Dec;19(4):304-10. PubMed PMID: 24588036.
42. Bustamante-Montes LP, Hernández-Valero MA, Flores-Pimentel D, García-Fábila M, Amaya-Chávez A, **Barr DB**, Borja-Aburto VH. Prenatal exposure to phthalates is associated with decreased anogenital distance and penile size in male newborns. *J Dev Orig Health Dis.* 2013 Aug;4(4):300-6. doi: 10.1017/S2040174413000172. PubMed PMID: 24349678; PubMed Central PMCID: PMC3862078.
43. Young HA, Meeker JD, Martenies SE, Figueroa ZI, **Barr DB**, Perry MJ. Environmental exposure to pyrethroids and sperm sex chromosome disomy: a cross-sectional study. *Environ Health.* 2013 Dec 17;12:111. doi: 10.1186/1476-069X-12-111. PubMed PMID: 24345058; PubMed Central PMCID: PMC3929259.
44. Prapamontol T, Sutan K, Laoyang S, Hongsibsong S, Lee G, Yano Y, Hunter RE, Ryan PB, **Barr DB**, Panuwet P. Cross validation of gas chromatography-flame photometric detection and gas chromatography-mass spectrometry methods for measuring dialkylphosphate metabolites of organophosphate pesticides in human urine. *Int J Hyg Environ Health.* 2014 Apr-May;217(4-5):554-66. doi: 10.1016/j.ijheh.2013.10.005. Epub 2013 Nov 7. PubMed PMID: 24280209.
45. Upton K, De Roos AJ, Thompson ML, Sathyanarayana S, Scholes D, **Barr DB**, Holt

- VL. Organochlorine pesticides and risk of endometriosis: findings from a population-based case-control study. *Environ Health Perspect.* 2013 Nov-Dec;121(11-12):1319-24. doi: 10.1289/ehp.1306648. Epub 2013 Sep 17. PubMed PMID: 24192044; PubMed Central PMCID: PMC3855515.
46. Muñoz-Quezada MT, Lucero BA, **Barr DB**, Steenland K, Levy K, Ryan PB, Iglesias V, Alvarado S, Concha C, Rojas E, Vega C. Neurodevelopmental effects in children associated with exposure to organophosphate pesticides: a systematic review. *Neurotoxicology.* 2013 Dec;39:158-68. doi: 10.1016/j.neuro.2013.09.003. Epub 2013 Oct 9. PubMed PMID: 24121005; PubMed Central PMCID: PMC3899350.
47. McKelvey W, Jacobson JB, Kass D, **Barr DB**, Davis M, Calafat AM, Aldous KM. Population-based biomonitoring of exposure to organophosphate and pyrethroid pesticides in New York City. *Environ Health Perspect.* 2013 Nov-Dec;121(11-12):1349-56. doi: 10.1289/ehp.1206015. Epub 2013 Sep 24. PubMed PMID: 24076605; PubMed Central PMCID: PMC3855501.
48. Dipietro JA, Davis MF, Costigan KA, **Barr DB**. Fetal heart rate and motor activity associations with maternal organochlorine levels: results of an exploratory study. *J Expo Sci Environ Epidemiol.* 2013 Apr 17. doi: 10.1038/jes.2013.19. [Epub ahead of print] PubMed PMID: 23591698.
49. Buck Louis GM, Sundaram R, Schisterman EF, Sweeney AM, Lynch CD, Gore-Langton RE, Maisog J, Kim S, Chen Z, **Barr DB**. Persistent environmental pollutants and couple fecundity: the LIFE study. *Environ Health Perspect.* 2013 Feb;121(2):231-6. doi: 10.1289/ehp.1205301. Epub 2012 Oct 31. PubMed PMID: 23151773; PubMed Central PMCID: PMC3569685.
50. Bradman A, Kogut K, Eisen EA, Jewell NP, Quirós-Alcalá L, Castorina R, Chevrier J, Holland NT, **Barr DB**, Kavanagh-Baird G, Eskenazi B. Variability of organophosphorous pesticide metabolite levels in spot and 24-hr urine samples collected from young children during 1 week. *Environ Health Perspect.* 2013 Jan;121(1):118-24. doi: 10.1289/ehp.1104808. Epub 2012 Oct 9. PubMed PMID: 23052012; PubMed Central PMCID: PMC3553429.
51. Buck Louis GM, Sundaram R, Schisterman EF, Sweeney AM, Lynch CD, Gore-Langton RE, Maisog J, Kim S, Chen Z, **Barr DB**. Persistent Environmental Pollutants and Couple Fecundity: The LIFE Study. *Environ Health Perspect.* 2012 Nov 14. [Epub ahead of print] PubMed PMID: 23151773.
52. Bradman A, Kogut K, Eisen EA, Jewell NP, Quirós-Alcalá L, Castorina R, Chevrier J, Holland NT, **Barr DB**, Kavanagh-Baird G, Eskenazi B. Variability of Organophosphorous Pesticide Metabolite Levels in Spot and 24-hr Urine Samples Collected from Young Children during 1 Week. *Environ Health Perspect.* 2012 Oct 9. [Epub ahead of print] PubMed PMID: 23052012.
53. Horton MK, Kahn LG, Perera F, **Barr DB**, Rauh V. Does the home environment and the sex of the child modify the adverse effects of prenatal exposure to chlorpyrifos on child working memory? *Neurotoxicol Teratol.* 2012 Sep-Oct;34(5):534-41. doi: 10.1016/j.ntt.2012.07.004. Epub 2012 Jul 21. PubMed PMID: 22824009.
54. Quirós-Alcalá L, Bradman A, Smith K, Weerasekera G, Odetokun M, **Barr DB**, Nishioka M, Castorina R, Hubbard AE, Nicas M, Hammond SK, McKone TE, Eskenazi B. Organophosphorous pesticide breakdown products in house dust and children's urine. *J Expo Sci Environ Epidemiol.* 2012 Nov;22(6):559-68. doi:

- 10.1038/jes.2012.46. Epub 2012 Jul 11. PubMed PMID: 22781438.
55. Coronado GD, Holte SE, Vigoren EM, Griffith WC, **Barr DB**, Faustman EM, Thompson B. Do workplace and home protective practices protect farm workers? Findings from the "For Healthy Kids" study. *J Occup Environ Med*. 2012 Sep;54(9):1163-9. PubMed PMID: 22772953.
56. Muñoz-Quezada MT, Iglesias V, Lucero B, Steenland K, **Barr DB**, Levy K, Ryan PB, Alvarado S, Concha C. Predictors of exposure to organophosphate pesticides in schoolchildren in the Province of Talca, Chile. *Environ Int*. 2012 Oct 15;47:28-36. doi: 10.1016/j.envint.2012.06.002. Epub 2012 Jun 23. PubMed PMID: 22732215; PubMed Central PMCID: PMC3408779.
57. Rauh VA, Perera FP, Horton MK, Whyatt RM, Bansal R, Hao X, Liu J, **Barr DB**, Slotkin TA, Peterson BS. Brain anomalies in children exposed prenatally to a common organophosphate pesticide. *Proc Natl Acad Sci U S A*. 2012 May 15;109(20):7871-6. doi: 10.1073/pnas.1203396109. Epub 2012 Apr 30. PubMed PMID: 22547821; PubMed Central PMCID: PMC3356641.
58. Rauch SA, Braun JM, **Barr DB**, Calafat AM, Khoury J, Montesano AM, Yolton K, Lanphear BP. Associations of prenatal exposure to organophosphate pesticide metabolites with gestational age and birth weight. *Environ Health Perspect*. 2012 Jul;120(7):1055-60. doi: 10.1289/ehp.1104615. Epub 2012 Mar 20. PubMed PMID: 22476135; PubMed Central PMCID: PMC3404666.
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336. Fenster L, Eskenazi B, Anderson M, Bradman A, Hubbard A, Harley K, Vargas G, and **Barr DB**. Association of in utero organochlorine pesticide exposure and fetal growth and length of gestation in an agricultural population. *Epidemiology* 2005; 16: S102.
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339. Eskenazi B, Bradman A, Holland N, **Barr DB**, Tager I, Lipsett M, Alkon A, Johnson C, and Gladstone EA. Health effects of environmental exposures to children living in an agricultural community. *Epidemiology*. 2004; 15: S85.
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343. **Barr DB**, and Needham LL. Reference ranges for pesticides: The national exposure report. *Epidemiology*. 2004; 15: S180.
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348. Bradman A, Eskenazi B, McKone T, Castorina R, Harnly M, and **Barr DB**. Organophosphate pesticide exposures to pregnant women living in an agricultural community. *Epidemiology*. 2002; 13:307.
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350. Bradman A, **Barr DB**, Drumheller T, and Eskenazi B. Feasibility of using amniotic fluid to assess fetal pesticide exposure. *Epidemiology*. 2002; 13: 322.
351. Lanphear BP, Bearer CF, Dietrich KN, Yolton K, Donovan E, Hornung R, and **Barr DB**. Meconium as a biomarker of fetal and childhood exposure to prevalent neurotoxicants. *Epidemiology*. 2002; 13:323.
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353. Hilborn ED, Royster MO, Soukup JM, Walsh D, Bellini W, **Barr DB**, and Becker S. Pesticide exposure and immune function among toddlers. *Epidemiology*. 2002; 13:548.
354. Duty SM, Silva MJ, **Barr DB**, Brock JW, Ryan L, Chen Z, Herrick RF, Christiani D, and Hauser R. Urinary phthalate monoesters at general population exposure levels are associated with altered semen quality. *Epidemiology*. 2002; 13:657.
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356. **Barr DB**, Olsson AO, Bravo R, Sandau C, and Needham LL. Biological monitoring of exposure to pesticides: A comprehensive approach to internal dose measurements. *Epidemiology*. 2002; 13:909.
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358. Mendola P, Walsh D, Hern S, Gonzales M, Hilborn E, Needham LL, **Barr DB**, Robertson G, Rhoney S, Royster M, and Carty C. Initial investigation of symptomatic preschool children in an agricultural community. *Epidemiology*. 2000; 11:609.
359. Hart R, Ortega L, Rosales C, Robertson G, Philen R, and **Barr DB**. Preliminary results from an investigation on pesticide exposure among children living in agricultural areas along the US Mexico border in Yuma County, Arizona. *Epidemiology*. 2000; 11:714.
360. Needham LL, Pirkle JL, Ashley DL, Patterson DG, Barr JR, **Barr DB**, and Sampson EJ. Role of biomonitoring in human exposure assessment. *Epidemiology*. 1999; 10:1620.
361. **Barr DB**, Driskell WJ, Beeson MD, Harmon IR, and Needham LL. Biological monitoring of dialkyl phosphates in urine as indicators of cumulative exposure to organophosphate insecticides. *Epidemiology*. 1999; 10:3560.
362. Barr JR, **Barr DB**, and Needham LL. Quantification of methyleugenol in human serum. *Epidemiology*. 1999; 10: 4780.

EXTERNALLY FUNDED RESEARCH

Active (from 2010 when academic employment began)

- 2016-2021 Co-Principle Investigator. 1R01ES026082-01A1. Impact of prenatal insecticide exposure on neurodevelopmental trajectories in a Thai birth cohort: building exposure science and neurodevelopmental research capacity in Thailand (NIH, \$498,545)
- 2016-2016 Co-Principal Investigator. 1R21DK105891-01. Association of persistent organic pollutants with incident diabetes in India (NIH, \$127,900)
- 2016-2021 Co-Investigator. 1R01ES025775-01A1. Collaborative Research and Action: Empowering an Exposed Community (NIH, \$625,000)
- 2015-2020 Co-Investigator and Director Project 1. 1P50ES026071-01. Center for Children's Health, the Environment, the Microbiome and Metabolome. (NIH/EPA, \$805,585)
- 2015-2019 Co-Investigator and Director of Targeted Research Resource. 1U2CES026560-01. National Exposure Assessment Laboratory at Emory (NIH, \$1,200,000)
- 2015-2020 Co-Investigator. R01ES024790-01A1. Genetic Biomarkers of Polybrominated Biphenyl (PBB) Exposure (NIH, \$495,220)
- 2014-2016 Principal Investigator. R21ES023927. Evaluation and Validation of Dried Blood Spots as a Matrix for Exposure Assessment (NIH, \$426,900).
- 2013-2018 Co-Investigator. 1R01CA179422. Market Research to predict emerging tobacco product use in diverse young adults (NIH, \$2,481,208). PI: Carla Berg
- 2013-2017 Co-Investigator and Integrated health sciences and facilities core co-director. 1P30ES019776-01A1. HERCULES: Health and Exposome Research Center at Emory (NIH, \$4,050,137). PI: Gary Miller
- 2012-2014 Co-Investigator. R01ES021357. BPA and Obesity (NIH, \$2,475,965). PI: Andreas Baccarelli, Harvard University.

Completed (from 2010 when academic employment began)

- 2010-2014 Co-Principal Investigator. 1R21ES019697-01. PBDE Body Burdens, House Dust Concentrations and Associations With Thyroid Hormones in Children Age 2-5 Years (NIEHS, \$319,719).
- 2010-2014 Principal Investigator. EP10D000737. Exposure-based Reconstruction of Dose (EPA, \$100,000).
- 2011-2013 Principle Investigator. 0000014915. Determination of pharmacokinetics of atrazine following a single dose to adult cynomolgous monkeys (Syngenta, \$282,000).
- 2012-2016 Co-Investigator. 4R00ES020346. Prenatal Sex Steroids, Bisphenol A, Phthalates, and sexually dimorphic behaviors (NIH, \$1,244,996). PI: Joe Braun, Brown University.
- 2012-2015 Co-Investigator. 5R01ES020360-04. Indoor Residential Spraying in South Africa (NIH, \$2,491,963). PI: Brenda Eskenazi, UC Berkeley.
- 2005-2011 Co-Investigator. RD-83224401. EPA. A Longitudinal Assessment Study of Human Exposure to Pesticides (EPA, \$35,000). PI: Jeremy Sarnat/Chensheng Lu.
- 2009-2011 Co-Investigator. 5R21ES015465-02. Early Pesticide Exposure and Neurodevelopmental Outcomes in a Thai Birth Cohort (NIH, \$274, 074). PI: Barry Ryan
- 2009-2011 Co-Investigator. RC1ES018299-01. Validation and pilot testing of methods for assessing infants' dietary pesticide exposure (NIH, \$465, 245).
- 2010-2011 Primary Investigator. Seed Grant of P01 ES016731-01 Emory Neurotoxicology Center. Detection of PBDE levels in human brain tissue and their association with neurodegenerative disease (NIH Center Grant Seed Grant, \$25,000).
- 2008-2013 Co-Investigator. Formative research project under HHS2750080024C (PI: Hogue). Evaluation of dust collection techniques for the NCS. (NIH, \$34, 263).
- 2007-2012 Co-Investigator. Formative research project under HHSN267200700007C (PI:Stoll). Project 19: Evaluation of the feasibility of using saliva as a biomatrix. (NIH, \$342, 244).

TEACHING

Courses Taught

EH500: Perspectives in Environmental Health. 2011-present.

EH500D: CMPH Perspectives in Environmental Health, 2012-2016

EH527: Biomarkers in Environmental Public Health. 2010-present

EH596: Research Methods and Design. 2010

CHEM 260: Undergraduate Analytical Chemistry. 2010

MPH THESIS COMMITTEES, CHAIR

- 2011 Alyson Lorenz. Evaluation of knowledge, activities and practices of pregnant women living in an agricultural region (Fang District) in Chiang Mai Province, Thailand.
- 2011 Alison Clune. Evaluation of knowledge, activities and practices in small-scale farmers in Bangladesh.
- 2011 Priya D'Souza. Concentrations of neurotoxicant insecticides in traditional and organic baby foods.
- 2011 Ami Shah. Assessing the Impact of WaterGuard and Micronutrient Sprinkles use on Diarrheal Prevalence Among Kenyan Children Aged 6 to 35 Months
- 2012 Jordan Cohen. Polybrominated flame retardants in brain tissue of decedents with neurological pathologies (e.g., Parkinson's Disease and Alzheimer's Disease).
- 2012 Priyanka Pathak. Environmental levels of pesticides near rice and chili farms in Ubon Ratchathani, Thailand.
- 2012 Emma Virginia. Relation of brominated flame retardants in house dust with thyroid function in 3-5 year old children.
- 2012 Elizabeth George. Understanding the Pharmacokinetics of Atrazine in Cynomolgus Monkeys: Implications for Human Biomonitoring.
- 2012 Lauren Moss (CMPH). Radon exposure in Georgia.
- 2012 Dianne Alexis (CMPH). Occupational Exposures to Chemicals (Organic Solvents) in Laboratories.
- 2012 Leslie Lee (CMPH). Evaluation of biomarkers of thirdhand smoke to inform risk and policy.
- 2013 Christina Brosius. Understanding Variation in Atrazine Metabolism in a Nonhuman Primate Model.

- 2013 Grace Lee. Predicting Body Burden of Polybrominated Diphenyl Ethers in Children Aged 15 Months to 5 Years Using Household Dust and Handwipe Levels and Selected Demographic Variables.
- 2013 Fauzia Rashid. Melamine exposure in the US population.
- 2014 Emilia Matthews. Prenatal Organophosphate Pesticide Exposure and Neurodevelopmental Outcomes in a Thai Agricultural Birth Cohort. (BEST EH THESIS AWARD).
- 2014 Tamara Opila. Environmental exposures to BPA and selected phthalates, measured in human follicular fluid as a determinant for in vitro fertilization success.
- 2014 Yukiko Yano. A Metabolomics Study of Plasma Biological Changes Related to Polybrominated Biphenyl (PBB 153) Exposure in the Michigan PBB Cohort.
2015. Grant Walter.
- 2015 Jennifer Sinatra
- 2015 Jamie Schenk
- 2015 Anna Frietham
- 2015 Jennifer Truell
- 2015 Shiwei Gao
- 2016 Opal Pathak
- 2016 Zelalem Adefris.
- 2016 Eric Czernizer
- 2016 Amanda Elizondo
- 2016 Anthony Murphy
- 2016 Jason Wilkens
- 2016 Maureen Hirshfield

MPH THESIS COMMITTEE, MEMBER

2013 Jennifer Isenberg. The association between residential crowding and asthma in children in the NHANES 2005-2006 dataset.

MPH CAPSTONE ADVISOR

2014 Theresa Zatirka. Identifying Knowledge Gaps and Development of Educational Intervention Materials for Female Agricultural Workers Exposed to Pesticides in Thailand

2014 Meghan Fitzpatrick. Risk Assessment for the Use of Patient Isolation Units in a High Containment Hospital Suite

2014 Tracey Fountain. Program development, implementation and quality control for use of alkaline hydrolysis tissue digestion for pathological waste

EHS PhD DISSERTATION COMMITTEE, CHAIR

2016 Elizabeth Marder.

EHS PhD DISSERTATION COMMITTEE, MEMBER

2016 Laura Zambrano

UNIVERSITY SERVICE

Department of Environmental Health

2010-present Faculty Search Committee

2011-present EHS PhD Curriculum Committee

2014-present EHS PhD Qualifying Exam Committee

Rollins School of Public Health

2013-present Student Honor and Conduct Code Standing Council

2011-present Research Advisory Committee, co-chair

2011-present Faculty Senate, ex officio

2011-2015 Career Services Advisory Committee

2010-2012 Reaccreditation Steering Committee, 2010-2012

University-Wide

2011-present Conflict of Interest Committee, 2011-present

2010-present Green Laboratory Committee, 2010-present

2010-2013 Sustainable Food Committee, 2010-2013

PROFESSIONAL SERVICE

Editorships/Editorial Boards

- 2005-2010 Editor-in-Chief, *Journal of Exposure Science and Environmental Epidemiology*
2011-present Editor-in-Chief Emeritus, *Journal of Exposure Science and Environmental Epidemiology*
2010-present Editorial Board, *Journal of Health Research*, Chulalongkorn University, Thailand
2011-present Associate Editor, *Environmental Health Perspectives*
2014-2015 Associate Editor, *Environmental Research*
2013-present Associate Editor, *Advances in Medicine*
2012-present Editorial Board, *Journal of Chromatographic Separation Techniques*

Journal Reviewer

- New England Journal of Medicine*
Lancet
Nature
Pediatrics
Environmental Health Perspectives
Journal of Exposure Science and Environmental Epidemiology
Epidemiology
Environmental Research
Environment International
Journal of Analytical Toxicology
Toxicology
Journal of Agriculture and Food Chemistry
Bulletin of Agriculture and Food Chemistry
Critical Reviews in Toxicology
Talanta
Journal of Chromatography B
Science of the Total Environment
Chemosphere
Human Environmental Risk Assessment
Environmental Science and Technology
International Journal of Hygiene and Environmental Health
Journal of Toxicology and Environmental Health
Journal of Occupational and Environmental Medicine
Analytical Chemistry

Professional Organizations/Societies

- 2011-2012 President, International Society of Exposure Science
2003-2006 Treasurer, International Society of Exposure Science
2000-present Member, International Society of Exposure Science
2008-2009 President, Southern Section of the Association for Official Analytical Chemists
2005-present Member, Executive Committee of the Southern Section of the Association for Official Analytical Chemists
2000-present Member, International Society of Environmental Epidemiology
2009-present Member, Society of Toxicology

1995-2009 Member, American Society of Mass Spectrometrists
1987-present Member, American Chemical Society

Study Sections and Scientific Advisory Panels

2016-2019 NIH, NAME Study section
2014-2017 EPA, Scientific Advisory Panel for Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
2011-2015 NIOSH Study Section, permanent member
2013 EPA, Member, Evaluation Panel for Exposure Science in the 21st Century
2010-present NIH, Ad Hoc Member, 6 study section panels
2006-2013 EPA, Scientific Advisory Panel for Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
2008 Member of Scientific Advisory Panel for the Farm Family Study conducted by the University of Minnesota (funded by a consortium of agrosience corporations). This study is evaluating pesticide exposure among farmers, farmer applicators, and their families when using real-world pesticide application practices. Serve as biological monitoring expert on the panel.
2007 Member of Scientific Advisory Panel for the Middleport, New York Biomonitoring Study conducted by Exponent Research (supported by FMC Corporation). This study is evaluating the extent of community contamination from arsenical pesticides leaching into the river and groundwater from a pesticide manufacturing facility. Have advised Exponent on many aspects of the study including sampling strategy, letters to participants, etc.
2004 Peer reviewer for U.S. EPA's Science to Achieve Results (STAR) grant applications
2004 Peer reviewer for U.S. EPA National Exposure Research Laboratory's Human Exposure Assessment Program.

Other Scientific Service- International

2013 Netherlands, reviewer of scientific proposals
2010-present Adjunct Professor, Chiang Mai University
2011-present Israeli Environmental Health Fund, reviewer of scientific proposals
2011 Health Canada, reviewer of scientific research proposals
2005, 2008-2011 ISES Technical Organizing Committee
2004 Steering Team Member for the International Biomarker Conference, Research Triangle Park, NC, September 21-22, 2004.
2004-2010 Steering Team Member for the ILSI/HESI Integration of Biomonitoring Data into Risk Assessment Technical Workgroup, 2004-present.
2004-2010 Member of the ILSI/HESI Integration of Biomonitoring Data into Risk Assessment Technical Workgroup
2004 Consultant for research funding for the Medical Research Council of South Africa (equivalent to NIH in the US). Served on the selection panel for government funding of a major research study.
2004-2010 Advisory committee for the Children's Pesticide Exposure Study, Chiang Mai, Thailand. Designed a simple cross-sectional study that showed that

- school children had measurable exposures to pesticides, but far less than their farmer parents.
- 2004-2008 Participant of US – Thailand Technology Exchange program. Trained Thai student to perform biomonitoring. He has since implemented similar methodology in their lab in Thailand.
- 2004 Participant of US – Africa Technology Exchange program. Trained 2 scientists (1 South African, 1 Tanzanian) to conduct biomonitoring analyses. They have build similar monitoring capacity in Africa.
- 2002-present Consultant to the German Research Foundation for pesticide biological monitoring, 2002-ongoing. Serve as an ad hoc member of the Hazardous Substances in the Environment Subcommittee for designating official methods for measuring environmental and occupational exposures. Asked to join committee on an ongoing basis because of expertise in biological monitoring and insightful comments in previous meetings.
- 2004 Chair of session on Persistent Organic Pollutants, 14th Annual ISEA conference, Philadelphia, PA, October 17-21, 2004.
- 2003 Chair of session on Pesticide Exposure and Health Effects, 13th Annual ISEA Conference, Stresa, Italy, September 21-25, 2003.
- 2001-2002 Served as mentor to guest researcher from Hoshi University in Tokyo, Japan, working on human exposure to phthalates, 2001-2002. Researcher subsequently obtained her Ph.D., largely because of the skills she acquired at CDC, and has returned to CDC as a research fellow.
- 2001 Chair of session on Nontraditional Matrices, 11th Annual ISEA Conference, Charleston, SC, November 4-8, 2001
- 1999 Consulted with the University of Lancaster, Lancaster, UK on the measurement of pesticides in humans, 1999. This consultation provided new insight into dealing with nonpersistent chemicals for a lab used to measuring only persistent chemicals.
- 1997 Consulted with the Slovakian Ministry of Health on appropriate methodology for biological monitoring of human pesticide exposure in Bratislava, Slovakia, 1997.
- 1997 Consulted with the Kyoto Institute of Technology, Kyoto, Japan on research projects to measure human exposure to pesticides, 1997.
- 1997 Consulted with the Himeji Institute of Technology, Himeji, Japan on research projects to measure human exposure to pesticides, 1997.
- 1996 Consulted and collaborated with the World Health Organization, Pan American Health Organization, US Food and Drug Administration and the Haitian Ministry of Health in the outbreak of renal failure due to diethylene glycol poisoning, 1996. Consultation with a private laboratory hired by the pharmaceutical plan allowed them to obtain a DEG result in acetaminophen preparations similar to those found at CDC.
- 1996 Consulted with Russian national and regional health officials on pesticide analysis including matrix choice, pesticide selection, and appropriate methodology, 1996. Funded by the US EPA and Russian Ministry of Health.

Other Scientific Service- Domestic

- 2014-2015 Member, Panel for development of NIEHS workshop on Exposomics
- 2006-2010 Member of Steering Committee for the NIH/NICHD Longitudinal Investigation of Fertility and the Environment (LIFE Study). Develop protocols, questionnaires, OMB materials for full study. Serve as CDC's liaison for this multi-branch large-scale prospective cohort study.
- 2006 Invited moderator of the National Academies of Science's Institute of Medicine Roundtable on Environmental Health Sciences Research and Medicine, Washington, DC 2006.
- 2005-2007 Member of Chemical Exposures workgroup of the multi-agency National Children's Study. Along with other workgroup members, drafted a 200 page guidance paper on exposure assessment for the study advisory committee. Individual sections of the paper are slated for publication in peer-reviewed journals.
- 2005 Center for the Evaluation of Risks to Human Reproduction's Expert Panel on 2-Diethylhexyl-phthalate
- 2005-2009 Adjunct Associate Professor, Emory University, Rollins School of Public Health, Environmental and Occupational Health
- 2005 Steering Committee for CAST workshop on Dietary Exposures, 2005.
- 2004 Steering Committee, EPA Toxicology Workshop, 2004-present.
- 2004 Member of Subcommittee on Exposure Biomarkers for the NIEHS/NCI Breast Cancer and Environment Centers. Serve as the biomarker expert for the breast cancer centers.
- 2004 Co-organizer of Farmworker Exposure Comparable Data Conference, September 30-October 1, Winston-Salem, NC.
- 2004 Leader, Biomonitoring subcommittee of the Farmworker Exposure Comparable Data Conference, September 30-October 1, 2004.
- 2004
- 2001-2010 Co-director of laboratory core for Cincinnati's Children's Environmental Health Center, Children's Hospital, Cincinnati, OH.
- 2002 Chair of breakout session on measurements, Meeting of NIEHS/EPA Centers for Children's Health Excellence.
- 1992-1994 Volunteer science mentor with the Women in Science and Engineering (WISE) program for elementary school children (1992-1994)
- 1992 National Science Foundation's volunteer scientist for the "Science-by-Mail" program elementary school children