# Curriculum Vitae DANA BOYD BARR, Ph.D.

**Department of Environmental Health Rollins School of Public Health Emory University**

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**EDUCATION**

Emory University, Atlanta GA

Rollins School of Public Health

Masters of Public Health, Applied Epidemiology (in progress)

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 Professor

Department of Environmental Health Rollins School of Public Health Emory University

Atlanta, GA

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

* Rollins School of Public Health Research Service Award, Emory University, 2020
* HERCULES Community Service Award, 2018
* Thomas Reuters Top Cited Scientist in Environment/Ecology, 2014, 2015, 2016 (for a 10-year span)
* Listed in Thomson Reuters World’s Most Influential Scientific Minds, 2014
* Georgia State University’s Distinguished Chemistry Alumnus, 2013.
* Brenau University’s Alumnae Hall of Fame, 2017.
* AXΩ’s Real Strong Women of Distinction, 2017.
* 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: 342 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 2021
* Named a 2014, 2015, and 2016 Thomson Reuters Highly Cited Researcher, Environmental/Ecology representing top 1% of scientists in the field.
* Oral Presentations: Over 350 invited and platform presentations given at multiple meetings
* Research Gate RG Score: 49.53 (upper 2.5 percentile of Research Gate members)
* H-index=98 (median for National Academy of Science inductees=57; minimum=45)
* i10 index = 316
* Total Citations = 32806
* Most highly cited article = Google Scholar states cited in 1346 publications (Barr et al., EHP, 2005).
* Average citations per year (last 4 years) = 2424 (range 2326-2527)

PEER-REVIEWED JOURNAL ARTICLES

1. Genome-wide DNA methylation differences and polychlorinated biphenyl (PCB) exposure in a US population. Curtis SW, Cobb DO, Kilaru V, Terrell ML, Marder ME, **Barr DB**, Marsit CJ, Marcus M, Conneely KN, Smith AK. Epigenetics. 2020 Jul 22:1-15. doi: 10.1080/15592294.2020.1795605. Online ahead of print. PMID: 32660331
2. Prenatal maternal organophosphorus pesticide exposures, paraoxonase 1, and childhood adiposity in the Mount Sinai Children's Environmental Health Study. Etzel TM, Engel SM, Quirós-Alcalá L, Chen J, **Barr DB**, Wolff MS, Buckley JP. Environ Int. 2020 Sep;142:105858. doi: 10.1016/j.envint.2020.105858. Epub 2020 Jun 26. PMID: 32599353
3. Letter to the Editors-in-Chief regarding Velmurugan et al.,-Association of co-accumulation of arsenic and organophosphate insecticides with diabetes and atherosclerosis in a rural agricultural community: KMCH-NNCD-I study. **Barr DB**, Jaacks LM. Acta Diabetol. 2020 Jun 6. doi: 10.1007/s00592-020-01543-3. Online ahead of print. PMID: 32506197
4. Sex-specific DNA methylation differences in people exposed to polybrominated biphenyl. Curtis SW, Gerkowicz SA, Cobb DO, Kilaru V, Terrell ML, Marder ME, **Barr DB**, Marsit CJ, Marcus M, Conneely KN, Smith AK. Epigenomics. 2020 ay;12(9):757-770. doi: 10.2217/epi-2019-0179. Epub 2020 Jun 4. PMID: 32496131
5. Prediagnostic serum concentrations of organochlorine pesticides and non-Hodgkin lymphoma: A nested case-control study in the Norwegian Janus Serum Bank Cohort.

Chen D, Grimsrud TK, Langseth H, **Barr DB**, Bassig BA, Blair A, Cantor KP, Gammon MD, Lan Q, Rothman N, Engel LS. Environ Res. 2020 Aug;187:109515. doi: 10.1016/j.envres.2020.109515. Epub 2020 Apr 29. PMID: 32445944

1. Design and Rationale of the HAPIN Study: A Multicountry Randomized Controlled Trial to Assess the Effect of Liquefied Petroleum Gas Stove and Continuous Fuel Distribution. Clasen T, Checkley W, Peel JL, Balakrishnan K, McCracken JP, Rosa G, Thompson LM, **Barr DB**, Clark ML, Johnson MA, Waller LA, Jaacks LM, Steenland K, Miranda JJ, Chang HH, Kim DY, McCollum ED, Davila-Roman VG, Papageorghiou A, Rosenthal JP; HAPIN Investigators. Environ Health Perspect. 2020 Apr;128(4):47008. doi: 10.1289/EHP6407. Epub 2020 Apr 29. PMID: 32347766 Free PMC article.
2. Design and Rationale of the Biomarker Center of the Household Air Pollution Intervention Network (HAPIN) Trial. **Barr DB**, Puttaswamy N, Jaacks LM, Steenland K, Rajkumar S, Gupton S, Ryan PB, Balakrishnan K, Peel JL, Checkley W, Clasen T, Clark ML; HAPIN Investigative Team. Environ Health Perspect. 2020 Apr;128(4):47010. doi: 10.1289/EHP5751. Epub 2020 Apr 29. PMID: 32347765 Free PMC article.
3. Neblett MF 2nd, Curtis SW, Gerkowicz SA, Spencer JB, Terrell ML, Jiang VS,

Marder ME, **Barr DB**, Marcus M, Smith AK. Examining Reproductive Health Outcomes in Females Exposed to Polychlorinated Biphenyl and Polybrominated Biphenyl. Sci Rep. 2020 Feb 24;10(1):3314. doi: 10.1038/s41598-020-60234-9. PMID: 32094419; PMCID: PMC7039953.

1. Chang CJ, Terrell ML, Marcus M, Marder ME, Panuwet P, Ryan PB, Pearson M, Barton H, **Barr DB**. Serum concentrations of polybrominated biphenyls (PBBs), polychlorinated biphenyls (PCBs) and polybrominated diphenyl ethers (PBDEs) in the Michigan PBB Registry 40 years after the PBB contamination incident. Environ Int. 2020 pr;137:105526. doi: 10.1016/j.envint.2020.105526. Epub 2020 Feb 18.PMID: 32062441.
2. Kartavenka K, Panuwet P, Yakimavets V, Chaikang C, Tipubon K, D'Souza PE, **Barr DB**, Ryan PB. LC-MS quantification of malondialdehyde-dansylhydrazine derivatives in urine and serum samples. J Anal Toxicol. 2020 Jan 2:bkz112. doi:10.1093/jat/bkz112. Epub ahead of print. PMID: 31897465.
3. Jaacks LM, Yadav S, Panuwet P, Kumar S, Rajacharya GH, Johnson C, Rawal I, Mohan D, Mohan V, Tandon N, **Barr DB**, Narayan KMV, Prabhakaran D. Metabolite of the pesticide DDT and incident type 2 diabetes in urban India. Environ Int. 2019 Dec;133(Pt A):105089. doi: 10.1016/j.envint.2019.105089. Epub 2019 Oct 22. PMID:31654984; PMCID: PMC6860016.
4. Barkoski JM, Busgang SA, Bixby M, Bennett D, Schmidt RJ, **Barr DB**, Panuwet P, Gennings C, Hertz-Picciotto I. Prenatal phenol and paraben exposures in relation to child neurodevelopment including autism spectrum disorders in the MARBLES study. Environ Res. 2019 Dec;179(Pt A):108719. doi:10.1016/j.envres.2019.108719. Epub 2019 Sep 4. PMID: 31627027; PMCID: PMC6948181.
5. Curtis SW, Terrell ML, Jacobson MH, Cobb DO, Jiang VS, Neblett MF, Gerkowicz SA, Spencer JB, Marder ME, **Barr DB**, Conneely KN, Smith AK, Marcus M. Thyroid hormone levels associate with exposure to polychlorinated biphenyls and polybrominated biphenyls in adults exposed as children. Environ Health. 2019 Aug23;18(1):75. doi: 10.1186/s12940-019-0509-z. PMID: 31443693; PMCID: PMC6708149.
6. Liao J, McCracken JP, Piedrahita R, Thompson L, Mollinedo E, Canuz E, De Léon O, Díaz-Artiga A, Johnson M, Clark M, Pillarisetti A, Kearns K, Naeher L, Steenland K, Checkley W, Peel J, Clasen TF; **HAPIN investigators**. The use of bluetooth low energy Beacon systems to estimate indirect personal exposure to household air pollution. J Expo Sci Environ Epidemiol. 2019 Sep 26. doi:10.1038/s41370-019-0172-z. Epub ahead of print. Erratum in: J Expo Sci Environ Epidemiol. 2020 Feb 27;: PMID: 31558836.
7. Curtis SW, Cobb DO, Kilaru V, Terrell ML, Marder ME, **Barr DB**, Marsit CJ, Marcus M, Conneely KN, Smith AK. Environmental exposure to polybrominated biphenyl (PBB) associates with an increased rate of biological aging. Aging (Albany NY). 2019 Aug 2;11(15):5498-5517. doi: 10.18632/aging.102134. Epub 2019 Aug 2. PMID: 31375641; PMCID: PMC6710070.
8. Figueroa ZI, Young HA, Mumford SL, Meeker JD, **Barr DB**, Gray GM, Perry MJ. Pesticide interactions and risks of sperm chromosomal abnormalities. Int J Hyg Environ Health. 2019 Aug;222(7):1021-1029. doi: 10.1016/j.ijheh.2019.07.001. Epub 2019 Jul 13. PMID: 31311690.
9. Curtis SW, Cobb DO, Kilaru V, Terrell ML, Marder ME, **Barr DB**, Marsit CJ, Marcus M, Conneely KN, Smith AK. Exposure to polybrominated biphenyl and stochastic epigenetic mutations: application of a novel epigenetic approach to environmental exposure in the Michigan polybrominated biphenyl registry. Epigenetics. 2019 Oct;14(10):1003-1018. doi: 10.1080/15592294.2019.1629232. Epub 2019 Jun 14. PMID: 31200609; PMCID: PMC6691996.
10. Walker DI, Marder ME, Yano Y, Terrell M, Liang Y, **Barr DB**, Miller GW, Jones DP, Marcus M, Pennell KD. Multigenerational metabolic profiling in the Michigan PBB registry. Environ Res. 2019 May;172:182-193. doi: 10.1016/j.envres.2019.02.018. Epub 2019 Feb 13. PubMed PMID: 30782538; PubMed Central PMCID: PMC6534816.
11. Bassig BA, Engel LS, Langseth H, Grimsrud TK, Cantor KP, Vermeulen R, Purdue MP, **Barr DB**, Wong JYY, Blair A, Rothman N, Lan Q. Pre-diagnostic serum concentrations of organochlorines and risk of acute myeloid leukemia: A nested case-control study in the Norwegian Janus Serum Bank Cohort. Environ Int. 2019 Apr;125:229-235. doi: 10.1016/j.envint.2019.01.066. Epub 2019 Feb 2. PubMed PMID: 30721827.
12. Curtis SW, Cobb DO, Kilaru V, Terrell ML, Kennedy EM, Marder ME, **Barr DB**, Marsit CJ, Marcus M, Conneely KN, Smith AK. Exposure to polybrominated biphenyl (PBB) associates with genome-wide DNA methylation differences in peripheral blood. Epigenetics. 2019 Jan;14(1):52-66. doi: 10.1080/15592294.2019.1565590. Epub 2019 Jan 24. PubMed PMID: 30676242; PubMed Central PMCID: PMC6380401.
13. Kartavenka K, Panuwet P, Greenwald R, Ehret KM, D'Souza PE, **Barr DB**, Ryan PB. Quantification of malondialdehyde in exhaled breath condensate using pseudo two-dimensional ultra-performance liquid chromatography coupled with single quadrupole mass spectrometry. J Chromatogr B Analyt Technol Biomed Life Sci. 2019 Jan 15;1105:210-216. doi: 10.1016/j.jchromb.2018.12.009. Epub 2018 Dec 13. PubMed PMID: 30611078; PubMed Central PMCID: PMC6358417.
14. Choi G, Wang YB, Sundaram R, Chen Z, **Barr DB**, Buck Louis GM, Smarr MM. Polybrominated diphenyl ethers and incident pregnancy loss: The LIFE Study. Environ Res. 2019 Jan;168:375-381. doi: 10.1016/j.envres.2018.09.018. Epub 2018 Sep 18. PubMed PMID: 30384231; PubMed Central PMCID: PMC6294303.
15. Barkoski J, Bennett D, Tancredi D, **Barr DB**, Elms W, Hertz-Picciotto I. Variability of urinary pesticide metabolite concentrations during pregnancy in the MARBLES Study. Environ Res. 2018 Aug;165:400-409. doi: 10.1016/j.envres.2018.05.002. Epub 2018 Jun 1. PubMed PMID: 29860212.
16. Steenland K, Kugathasan S, **Barr DB**. PFOA and ulcerative colitis. Environ Res. 2018 Aug;165:317-321. doi: 10.1016/j.envres.2018.05.007. Epub 2018 May 16. PubMed PMID: 29777922; PubMed Central PMCID: PMC6358414.
17. Hartle JC, Cohen RS, Sakamoto P, **Barr DB**, Carmichael SL. Chemical Contaminants in Raw and Pasteurized Human Milk. J Hum Lact. 2018 May;34(2):340-349. doi: 10.1177/0890334418759308. Epub 2018 Mar 30. PubMed PMID: 29601252; PubMed Central PMCID: PMC6422529.
18. Philippat C, Barkoski J, Tancredi DJ, Elms B, **Barr DB**, Ozonoff S, Bennett DH, Hertz-Picciotto I. Prenatal exposure to organophosphate pesticides and risk of autism spectrum disorders and other non-typical development at 3 years in a high-risk cohort. Int J Hyg Environ Health. 2018 Feb 15. pii: S1438-4639(18)30055-5. doi: 10.1016/j.ijheh.2018.02.004. [Epub ahead of print] PubMed PMID: 29478806.
19. Radford SA, Panuwet P, Hunter RE Jr, **Barr DB**, Ryan PB. Degradation of Organophosphorus and Pyrethroid Insecticides in Beverages: Implications for Risk Assessment. Toxics. 2018 Feb 2;6(1). pii: E11. doi: 10.3390/toxics6010011. PubMed PMID: 29393904.
20. Morgan MK, Nash M, **Barr DB**, Starr JM, Scott Clifton M, Sobus JR. Distribution, variability, and predictors of urinary bisphenol A levels in 50 North Carolina adults over a six-week monitoring period. Environ Int. 2017 Dec 18;112:85-99. doi: 10.1016/j.envint.2017.12.014. [Epub ahead of print] PubMed PMID: 29268160.
21. Bae J, Kim S, **Barr DB**, Buck Louis GM. Maternal and paternal serum concentrations of persistent organic pollutants and the secondary sex ratio: A population-based preconception cohort study. Environ Res. 2018 Feb;161:9-16. doi: 10.1016/j.envres.2017.10.047. Epub 2017 Oct 31. PubMed PMID: 29096317; PubMed Central PMCID: PMC5747985.
22. Kim S, Nussbaum MA, Laurienti PJ, Chen H, Quandt SA, **Barr DB**, Arcury TA. Exploring Associations Between Postural Balance and Levels of Urinary Organophosphorus Pesticide Metabolites. J Occup Environ Med. 2018 Feb;60(2):174-179. doi: 10.1097/JOM.0000000000001194. PubMed PMID: 29023345.
23. Arcury TA, Laurienti PJ, Talton JW, Chen H, Howard TD, **Barr DB**, Mora DC, Quandt SA. Pesticide Urinary Metabolites Among Latina Farmworkers and Nonfarmworkers in North Carolina. J Occup Environ Med. 2018 Jan;60(1):e63-e71. doi:10.1097/JOM.0000000000001189. PubMed PMID: 29023343; PubMed Central PMCID: PMC5758422.
24. Jacobson MH, Darrow LA, **Barr DB**, Howards PP, Lyles RH, Terrell ML, Smith AK, Conneely KN, Marder ME, Marcus M. Serum Polybrominated Biphenyls (PBBs) and Polychlorinated Biphenyls (PCBs) and Thyroid Function among Michigan Adults

Several Decades after the 1973-1974 PBB Contamination of Livestock Feed. Environ

Health Perspect. 2017 Sep 26;125(9):097020. doi: 10.1289/EHP1302. PubMed PMID: 28953452.

1. Panuwet P, Ladva C, **Barr DB**, Prapamontol T, Meeker JD, D'Souza PE, Maldonado H, Ryan PB, Robson MG. Investigation of associations between exposures to pesticides and testosterone levels in Thai farmers. Arch Environ Occup Health.

2017 Sep 13:1-14. doi: 10.1080/19338244.2017.1378606. [Epub ahead of print] PubMed PMID: 28901838.

1. Furlong MA, **Barr DB**, Wolff MS, Engel SM. Prenatal exposure to pyrethroid pesticides and childhood behavior and executive functioning. Neurotoxicology. 2017 Sep;62:231-238. doi: 10.1016/j.neuro.2017.08.005. Epub 2017 Aug 12. PubMed

PMID: 28811173; PubMed Central PMCID: PMC5623638.

1. Liu L, Wang H, Tian M, Zhang J, Panuwet P, D'Souza PE, **Barr DB**, Huang Q, Xia Y, Shen H. Phthalate metabolites related to infertile biomarkers and infertility in Chinese men. Environ Pollut. 2017 Dec;231(Pt 1):291-300. doi: 10.1016/j.envpol.2017.08.018. Epub 2017 Sep 25. PubMed PMID: 28810198.
2. Furlong MA, Herring A, Buckley JP, Goldman BD, Daniels JL, Engel LS, Wolff MS, Chen J, Wetmur J, **Barr DB**, Engel SM. Prenatal exposure to organophosphorus pesticides and childhood neurodevelopmental phenotypes. Environ Res. 2017 Oct;158:737-747. doi: 10.1016/j.envres.2017.07.023. Epub 2017 Jul 22. PubMed PMID: 28743040; PubMed Central PMCID: PMC5577985.
3. Gaspar FW, Chevrier J, Quirós-Alcalá L, Lipsitt JM, **Barr DB**, Holland N, Bornman R, Eskenazi B. Levels and Determinants of DDT and DDE Exposure in the VHEMBE Cohort. Environ Health Perspect. 2017 Jul 7;125(7):077006. doi: 10.1289/EHP353. PubMed PMID: 28696207; PubMed Central PMCID: PMC5744723.
4. Millenson ME, Braun JM, Calafat AM, **Barr DB**, Huang YT, Chen A, Lanphear BP, Yolton K. Urinary organophosphate insecticide metabolite concentrations during pregnancy and children's interpersonal, communication, repetitive, and stereotypic behaviors at 8 years of age: The home study. Environ Res. 2017Aug;157:9-16. doi: 10.1016/j.envres.2017.05.008. Epub 2017 May 11. PubMed PMID: 28501654; PubMed Central PMCID: PMC5506847.
5. Comstra HS, McArthy J, Rudin-Rush S, Hartwig C, Gokhale A, Zlatic SA,Blackburn JB, Werner E, Petris M, D'Souza P, Panuwet P, **Barr DB**, Lupashin V,Vrailas-Mortimer A, Faundez V. The interactome of the copper transporter ATP7A belongs to a network of neurodevelopmental and neurodegeneration factors. Elife. 2017 Mar 29;6. pii: e24722. doi: 10.7554/eLife.24722. PubMed PMID: 28355134; PubMed Central PMCID: PMC5400511.
6. Wolff MS, Buckley JP, Engel SM, McConnell RS, **Barr DB**. Emerging exposures of developmental toxicants. Curr Opin Pediatr. 2017 Apr;29(2):218-224. doi:

10.1097/MOP.0000000000000455. PubMed PMID: 28059904.

1. Darrow LA, Jacobson MH, Preston EV, Lee GE, Panuwet P, Hunter RE Jr, Marder ME, Marcus M, **Barr DB**. Predictors of Serum Polybrominated Diphenyl Ether (PBDE) Concentrations among Children Aged 1-5 Years. Environ Sci Technol. 2017 Jan 3;51(1):645-654. doi: 10.1021/acs.est.6b04696. Epub 2016 Dec 21. PubMed PMID:28000443.
2. Arcury TA, Laurienti PJ, Chen H, Howard TD, **Barr DB**, Mora DC, Summers P, Quandt SA. Organophosphate Pesticide Urinary Metabolites Among Latino Immigrants: North Carolina Farmworkers and Non-farmworkers Compared. J Occup Environ Med. 2016 Nov;58(11):1079-1086. PubMed PMID: 27820757; PubMed Central PMCID: PMC5113293.
3. Lum KJ, Sundaram R, **Barr DB**, Louis TA, Buck Louis GM. Perfluoroalkyl Chemicals, Menstrual Cycle Length, and Fecundity: Findings from a Prospective Pregnancy Study. Epidemiology. 2017 Jan;28(1):90-98. PubMed PMID: 27541842; PubMed Central PMCID: PMC5131715.
4. Wainstock T, Pearce B, **Barr DB**, Marder ME, Terrell M, Marcus M. Exposure to

PBB-153 and Digit Ratio. Early Hum Dev. 2016 Dec;103:33-35. doi:

10.1016/j.earlhumdev.2016.07.004. Epub 2016 Jul 27. PubMed PMID: 27474862.

1. Bornman MS, Chevrier J, Rauch S, Crause M, Obida M, Sathyanarayana S, **Barr DB**, Eskenazi B. Dichlorodiphenyltrichloroethane exposure and anogenital distance in the Venda Health Examination of Mothers, Babies and their Environment (VHEMBE) birth cohort study, South Africa. Andrology. 2016 Jul;4(4):608-15. doi:

10.1111/andr.12235. PubMed PMID: 27457477.

1. Marder ME, Panuwet P, Hunter RE, Ryan PB, Marcus M, **Barr DB**. Quantification of Polybrominated and Polychlorinated Biphenyls in Human Matrices by Isotope-Dilution Gas Chromatography-Tandem Mass Spectrometry. J Anal Toxicol. 2016 Sep;40(7):511-8. doi: 10.1093/jat/bkw041. Epub 2016 Jul 21. PubMed PMID: 27445313; PubMed Central PMCID: PMC4986627.
2. Chandler JD, Wongtrakool C, Banton SA, Li S, Orr ML, **Barr DB**, Neujahr DC, Sutliff RL, Go YM, Jones DP. Low-dose oral cadmium increases airway reactivity and lung neuronal gene expression in mice. Physiol Rep. 2016 Jul;4(13). pii: e12821. doi: 10.14814/phy2.12821. PubMed PMID: 27401458; PubMed Central PMCID: PMC4945833.
3. Dennis KK, Marder E, Balshaw DM, Cui Y, Lynes MA, Patti GJ, Rappaport SM,

Shaughnessy DT, Vrijheid M, **Barr DB**. Biomonitoring in the Era of the Exposome.

Environ Health Perspect. 2017 Apr;125(4):502-510. doi: 10.1289/EHP474. Epub 2016 Jul 6. PubMed PMID: 27385067; PubMed Central PMCID: PMC5381997.

1. Naksen W, Prapamontol T, Mangklabruks A, Chantara S, Thavornyutikarn P, Robson MG, Ryan PB, **Barr DB**, Panuwet P. A single method for detecting 11 organophosphate pesticides in human plasma and breastmilk using GC-FPD. J Chromatogr B Analyt Technol Biomed Life Sci. 2016 Jul 1;1025:92-104. doi: 10.1016/j.jchromb.2016.04.045. Epub 2016 May 14. PubMed PMID: 27232054; PubMed Central PMCID: PMC4930899.
2. Jacobson MH, **Barr DB**, Marcus M, Muir AB, Lyles RH, Howards PP, Pardo L, Darrow LA. Serum polybrominated diphenyl ether concentrations and thyroid function in young children. Environ Res. 2016 Aug;149:222-30. doi: 10.1016/j.envres.2016.05.022. Epub 2016 May 23. PubMed PMID: 27228485; PubMed Central PMCID: PMC4907865.
3. Radford SA, Panuwet P, Hunter RE Jr, **Barr DB**, Ryan PB. Production of Insecticide Degradates in Juices: Implications for Risk Assessment. J Agric Food Chem. 2016 Jun 8;64(22):4633-8. doi: 10.1021/acs.jafc.6b01143. Epub 2016 May 31. PubMed PMID: 27213611.
4. Louis GM, Sapra KJ, **Barr DB**, Lu Z, Sundaram R. Preconception perfluoroalkyl and polyfluoroalkyl substances and incident pregnancy loss, LIFE Study. Reprod Toxicol. 2016 Oct;65:11-17. doi: 10.1016/j.reprotox.2016.06.011. Epub 2016 Jun 16. PubMed PMID: 27319395; PubMed Central PMCID: PMC5067185.
5. 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.
6. 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.

1. 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.
2. 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.
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49. 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.
50. Baker JA, Mendola P, **Barr DB**, Walsh D, Creason J, and Needham LL. Non- residential organophosphorus pesticide use as a predictor of children's urinary metabolite levels. Epidemiology. 2002; 13: 893.
51. **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.
52. Mendola P, Walsh D, **Barr DB**, Needham LL, Hilborn E, Hern S, Gonzales M, Robertson G, Rhoney S, Royster M, Carty C, and Creason J. Organophosphate pesticide metabolites in urine from preschool children with flu-like illnesses. Epidemiology. 2001; 12:275.
53. 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.
54. 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.
55. 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.
56. **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.
57. 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 Multiple Principle Investigator (admin PI). 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/year). PI: Barr/Fiedler

2016-2021 Co-investigator (director of biomarker core with $800,000 annual directs). 1UM1HL134590-01. Household Air Pollution and Health: A Multi-Country LPG Intervention Trial (HAPIN Trial) (NIH, $6,000,000/year). PI: Clasen/Peel/Checkly

2016-2021 Co-Investigator. 1R01ES025775-01A1. Collaborative Research and Action: Empowering an Exposed Community (NIH, $625,000/year). PI: Michele Marcus

2015-2019 Co-Investigator and Director Project 1. 1P50ES026071-01. Center for Children’s Health, the Environment, the Microbiome and Metabolome. (NIH/EPA,

$805,585/year). PI: Linda McCauley/Barry Ryan

2015-2019 Co-Investigator and Director of Targeted Research Resource. 1U2CES026560-

01. National Exposure Assessment Laboratory at Emory (NIH, $1,200,000 total). PI: Lance Waller.

2015-2020 Co-Investigator. R01ES024790-01A1. Genetic Biomarkers of Polybrominated Biphenyl (PBB) Exposure (NIH, $495,220/year) PI: Alicia Smith/Michele Marcus

2013-2022 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/year). PI: Carmen Marsit

2018-2023 Co-Investigator. R01ES029212; ” Placental Functional Networks Linking Developmental Pesticide Exposure and Offspring Neurodevelopment”. MPIs: Carmen Marsit, Michael Caudle, Ke Hao (Mt Sinai)

2018-2019 Primary Investigator, “Chronic Kidney Disease in Thai Farmworkers”; NIH supplement to R01ES026082 SAWASDEE Cohort Study.

2018-2020 Co-Investigator/Mentor. Maternal exposure to endocrine disrupting compounds and Ano-genital Distance, NIH Diversity Supplement to R01ES026082 SAWASDEE Cohort Study; Melissa Smarr (PI of supplement, Barr/Fiedler MPI of study)

2018-2020 Primary Investigator of supplement. Comprehensive, lab-and field-based evaluation and comprehension of innovative passive air samplers: An Inter-Center study. PI: Carmen Marsit, PI of parent project.

2018-2023 Co-Investigator. R24ES029490; Maintenance and Enhancement of the Atlanta African American Maternal-Child Cohort. Anne Dunlop (SON) and Dean Jones (SOM) PIs.

# Completed (from 2010 when academic employment began)

2016-2018 Multiple Principle Investigator. 1R21ES027990-01. Protecting neurodevelopment in Latino migrant children by reduced exposure to organophosphate insecticides.

2016-2018 Multiple Principal Investigator. 1R21DK105891-01. Association of persistent organic pollutants with incident diabetes in India (NIH, $127,900)

2013-2018 Co-Investigator. 1R01CA179422. Market Research to predict emerging tobacco product use in diverse young adults (NIH, $2,481,208). PI: Carla Berg

2014-2017 Principal Investigator. R21ES023927. Evaluation and Validation of Dried Blood Spots as a Matrix for Exposure Assessment (NIH, $426,900).

2012-2014 Co-Investigator. R01ES021357. BPA and Obesity (NIH, $2,475,965). PI: Andreas Baccarelli, Harvard University.

2010-2014 Multiple-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 cynamologous 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 feasability of using saliva as a biomatrix. (NIH, $342, 244).

# TEACHING

**Courses Taught**

EH500: Perspectives in Environmental Health. 2011-2016.

EH500D: CMPH Perspectives in Environmental Health, 2011-2016 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. Endocrine Modulation & Metal Exposure: Long Term Effects on the Children of Agricultural Working Mothers in Thailand

2015 Jennifer Sinatra. The Impact of Meat Consumption on the Urinary Concentration of Dialkyl Phosphate Metabolites

2015 Jamie Schenk. Prenatal Heavy Metal Exposure and Neurodevelopmental Outcomes in a Thai Agricultural Birth Cohort

2015 Anna Frethiem. Using Meconium as an Alternative Matrix to Measure Cumulative Fetal Exposure to Phthalates

2015 Jennifer Truell. A Program Gap Analysis OF GrowNYC's Greenmarket and Youthmarket Programs on Fruit and Vegetable Access Among Residents in East Harlem, Central Harlem, Central Brooklyn, North Brooklyn and the South Bronx

2015 Shiwei Gao. Assessing the Health Effects of Air Pollution on High School Athletes

2016 Opal Patel. Association Between Food Outlet Density and Overweight/Obesity Among Adults in Delhi, India.

2016 Zelalem Adefris. Evaluation of Prenatal Pyrethroid Insecticide Exposure, Fetal Growth, and Neurodevelopmental Outcomes in a Thai Agricultural Birth Pilot Cohort.

2016 Eric Czernizer. Relationship between Pesticide Knowledge, Attitudes, and Practice (KAP) and Prenatal Organophosphate Exposure in a Pilot Thai Agricultural Birth Cohort

2016 Amanda Elizondo. Dried Blood Spots as a Matrix for Biomonitoring of Polyhalogenated Biphenyls

2016 Anthony Murphy. Validation and Characterization of Dried Blood Spots as an Exposure Matrix for Measuring Persistent Organic Pollutants.

2016 Jason Wilkens. Blood Metal Concentrations and Timing of Pubertal Onset in a Longitudinal Cohort of Girls, Northern California, 2006-2011.

2016 Maureen Hitshfeld. Arsenic exposure determinants on toddlers in Arica, Chile.

2017 Catherine Evans. Investigations of the Effect of HIV Status on Lead in the Body.

2017 Jiabei He. The Association of Urinary Phthalate Concentrations with Asthma-Related Outcomes among Adults: NHANES 2003-2012.

2017 Remy Landon. Urban Greenness and Birth Outcomes in Atlanta, Georgia.

2017 Gursharan Claire. Feminine hygiene products: A potential source of phthalate exposure among pregnant African American women in Atlanta, GA

2018 Dahnide Williams. Knowledge, Attitude and Practice (KAP) of Hypertension among African Americans in the Southeastern part of the United States known as the “Stroke Buckle”

2018 Rouyi Tang. Evaluation of predictors of severity of depression among U.S. population during 2013-2014

2018 Yitong Guo. Predictors of serum concentrations of Polybrominated Diphenyl Ethers (PBDEs) among pregnant African-American women in an urban environment: the CHERUB project

2019 Anisha Verma. Urinary BPA levels in pregnant African American women in Atlanta.

2019. Michael Essien. Associations between urinary phthalate metabolites and diabetes in the general US adult population.

2019. Pornpimol Kodsup. Factors Contributing to Children’s Lead, Cadmium, and Arsenic Exposures using Human Biomonitoring, Environmental Parameter and Qualitative Data Analysis in Southern Thailand.

2020. Tassia Drame. Relation of bisphenol A exposure to birth outcomes in an Atlanta African American birth cohort.

2020. Theresa Williams. Relation of phthalate exposure to cardiometabolic disease in an Atlanta African American birth cohort.

2020. Victoria Davidson. Relation of tobacco and marijuana biomarkers to cardiometabolic disease in an Atlanta African American birth cohort.

2020. Aaron Blakney. Relation of cadmium exposure to blood pressure in the National Health and Nutrition Examination Survey (2010-2016).

# MPH THESIS COMMITTEE, MEMBER

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

2017 Ashley Horne. Prenatal Organochlorine Exposure and Neurobehavioral Performance in a Thai Agricultural Birth Cohort

# 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

2019 Evelyn Tejeda. HVAC Condensate Disposal Design and Associated Contaminants.

# EHS PhD DISSERTATION COMMITTEE, CHAIR

2016 Elizabeth Marder. Chemistry to Community: Development and Implementation of a GC-MS/MS Method for Exposure Assessment and Evaluation of Community-Engaged Research in the Michigan PBB Research Registry

2020 Brittney Baumert. Environmental exposures to pesticides and birth outcome in a Thai farmworker birth cohort.

2021 Rong Chang. Exposures to organophosphate flame retardants and birth outcomes in an Atlanta area African American birth cohort.

# EHS PhD DISSERTATION COMMITTEE, MEMBER

2016 Laura Zambrano. Predictors of diarrhea and respiratory disease and use of serological markers to assess the health impact of a household filtration intervention among young children in Western Province, Rwanda

2016 Melanie Jacobson. Brominated flame retardants and endocrine disruption: the thyroid as a target organ.

2018 Kostya Kartavenka. Development of Liquid Chromatographic Methods for Quantification of Malondialdehyde, 8-Oxo-2'-deoxyguanosine, and Hydroxylated Metabolites of Polycyclic Aromatic Hydrocarbons in Urine.

2018 Naser Titu. Drinking Water Salinity: Mineral Intake and Cardiovascular Health.

# UNIVERSITY SERVICE

Department of Environmental Health 2010-present Faculty Search Committee

2011-present EHS PhD Curriculum Committee

2014-present EHS PhD Qualifying Exam Committee

2019-2020 GDEH Chair Search Committee

Rollins School of Publich Health

2013-present Student Honor and Conduct Code Standing Council 2011-2018 Research Advisory Committee, co-chair

2011-2018 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/Editoral 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*

2013-2017 Associate Editor, *Advances in Medicine*

2012-2017 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 Environemental 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 2016-2020 NIH, NAME Study section

2017 Chair, NIOSH Review Panel for Exposure Assessment Program

2014-2018 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 agroscience 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 proposal 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.

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