# Curriculum Vitae DANA BOYD BARR, Ph.D.

**Gangarosa 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

Applied Epidemiology

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

* Listed as a World’s Top Female Scientist, Research.com, 2022
* Elected membership into the Collegium Ramazzini, 2022
* Excellence in Exposure Science, International Society of Exposure Science, 2022
* Environmental Health Teaching Award, GDEH, RSPH, Emory, 2022
* 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: 397 peer-reviewed journal articles; 14 book chapters; 57 published abstracts
* Named to the 2022 list of Best Female Scientists in the World by Research.com
* 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=113 (median for National Academy of Science inductees=57; minimum=45)
* i10 index = 377
* Total Citations = 45,069
* Most highly cited article = Google Scholar states cited in 1963 publications (Barr et al., EHP, 2005).
* Average citations per year (last 4 years) = 2975 (range 2737-3088)

PEER-REVIEWED JOURNAL ARTICLES

1. Kornher K, Gould CF, Manzano JM, Baines K, Kayser G, Tu X, Suarez-Torres J, Martinez D, Peterson LA, Huset CA, **Barr DB**, Suarez-Lopez JR. Associations of PFAS and pesticides with lung function changes from adolescence to young adulthood in the ESPINA study. Int J Hyg Environ Health. 2025 Feb 3;265:114526. doi: 10.1016/j.ijheh.2025.114526. Epub ahead of print. PMID: 39904133.
2. \*Perez C, Sehgal N, Eick SM, **Barr DB**, Panuwet P, Yakimavets V, Chen K, Shankar K, Pearson KJ, Andres A, Everson TM. Sex-specific effects of in utero exposure to per- and polyfluoroalkyl substances on placental development. Environ Res. 2025 Jan 28;270:120868. doi: 10.1016/j.envres.2025.120868. Epub ahead of print. PMID: 39884538.
3. \*Everson TM, Sehgal N, Campbell K, **Barr DB**, Panuwet P, Yakimavets V, Chen K, Perez C, Shankar K, Eick SM, Pearson KJ, Andres A. Placental PFAS concentrations are associated with perturbations of placental DNA methylation. Environ Pollut. 2025 Jan 23:125737. doi: 10.1016/j.envpol.2025.125737. Epub ahead of print. PMID: 39862910.
4. \*Taibl KR, Dunlop AL, **Barr DB**, Ryan PB, Panuwet P, Corwin EJ, Eatmana JA, Tan Y, Liang D, Eick SM. Corrigendum to "Phthalate exposure increases interferon-γ during pregnancy: The Atlanta African American Maternal-Child Cohort" [Sci. Total Environ. 916 (2024)/Article 170344]. Sci Total Environ. 2025 Jan 15;960:178210. doi: 10.1016/j.scitotenv.2024.178210. Epub 2025 Jan 8. Erratum for: Sci Total Environ. 2024 Mar 15;916:170344. doi: 10.1016/j.scitotenv.2024.170344. PMID: 39788844; PMCID: PMC11797981.
5. \*Tan Y, Taibl KR, Dunlop AL, **Barr DB**, Panuwet P, Yakimavets V, Kannan K, Corwin EJ, Ryan PB, Eatman JA, Liang D, Eick SM. Correction to "Association between a Mixture of Per- and Polyfluoroalkyl Substances (PFAS) and Inflammatory Biomarkers in the Atlanta African American Maternal-Child Cohort". Environ Sci Technol. 2025 Jan 21;59(2):1467. doi: 10.1021/acs.est.4c13968. Epub 2025 Jan 9. Erratum for: Environ Sci Technol. 2023 Sep 12;57(36):13419-13428. doi: 10.1021/acs.est.3c04688. PMID: 39783771.
6. \*Fano-Sizgorich D, Gribble MO, Vásquez-Velásquez C, Ramírez-Atencio C, Aguilar J, Wickliffe JK, Lichtveld MY, **Barr DB**, Gonzales GF. Urinary arsenic species and birth outcomes in Tacna, Peru, 2019: a prospective cohort study. UCL Open Environ. 2024 Dec 6;6:e3146. doi: 10.14324/111.444/ucloe.3146. PMID: 39687685; PMCID: PMC11647210.
7. \*Wang Y, Hermetz K, Burt A, Lesseur C, Panuwet P, Fiedler N, Prapamontol T, Suttiwan P, Nimmapirat P, Sittiwang S, Naksen W, Yakimavets V, **Barr DB**, Hao K, Chen J, Marsit CJ. Prenatal exposure to pesticide mixtures and the placental transcriptome: Insights from trimester-specific, sex-specific and metabolite- scaled analyses in the SAWASDEE cohort. Environ Res. 2025 Feb 15;267:120637. doi: 10.1016/j.envres.2024.120637. Epub 2024 Dec 14. PMID: 39675449; PMCID: PMC11794011.
8. \*Eick SM, Sehgal N, Salamova A, Fiedler N, Hood RB, Yakimavets V, Promkam N, Prapamontol T, Suttiwan P, Sittiwang S, Mangklabruks A, Naksen W, Panuwet P, **Barr DB**. Per- and polyfluoroalkyl substances in paired serum and breastmilk samples among pregnant farmworkers in Thailand. Int J Hyg Environ Health. 2025 Mar;264:114509. doi: 10.1016/j.ijheh.2024.114509. Epub 2024 Dec 7. PMID: 39647432; PMCID: PMC11788031.
9. \*Zhou T, Abrishamcar S, Christensen G, Eick SM, **Barr DB**, Vanker A, Hoffman N, Donald KA, Wedderburn CJ, Andra SS, Wright RO, Zar HJ, Stein DJ, Hüls A. Associations between prenatal exposure to environmental phenols and child neurodevelopment at two years of age in a South African birth cohort. Environ Res. 2025 Jan 1;264(Pt 1):120325. doi: 10.1016/j.envres.2024.120325. Epub 2024 Nov 9. PMID: 39528036; PMCID: PMC11631636.
10. \*Tan Y, Eick SM, Dunlop AL, **Barr DB**, Taibl KR, Steenland K, Kannan K, Robinson M, Chang CJ, Panuwet P, Yakimavets V, Marsit CJ, Ryan PB, Liang D. A Prospective Analysis of Per- and Polyfluoroalkyl Substances from Early Pregnancy to Delivery in the Atlanta African American Maternal-Child Cohort. Environ Health Perspect. 2024 Nov;132(11):117001. doi: 10.1289/EHP14334. Epub 2024 Nov 6. PMID: 39504273; PMCID: PMC11540153.
11. \*Springer K, Eatman JA, Brennan PA, Dunlop AL, **Barr DB**, Panuwet P, Ryan PB, Corwin E, Taibl KR, Tan Y, Hoffman SS, Liang D, Eick SM. Maternal symptoms of depression and anxiety as modifiers of the relationship between prenatal phthalate exposure and infant neurodevelopment in the Atlanta African American maternal-child cohort. Brain Behav Immun Health. 2024 Aug 10;40:100846. doi: 10.1016/j.bbih.2024.100846. PMID: 39224563; PMCID: PMC11367505.
12. \*Taibl KR, Dunlop AL, Smith MR, Walker DI, Ryan PB, Panuwet P, Corwin EJ, Kannan K, Jones DP, Marsit CJ, Tan Y, Liang D, Eick SM, **Barr DB**. Association of per- and polyfluoroalkyl substances with the antioxidant bilirubin across pregnancy. Free Radic Biol Med. 2024 Oct;223:184-192. doi: 10.1016/j.freeradbiomed.2024.07.037. Epub 2024 Aug 2. PMID: 39097204.
13. \*Sehgal N, **Barr DB**, Eick SM. Invited Perspective: The Far Reach of PFAS-Inert Ingredients and Adjuvants in Pesticide Formulations. Environ Health Perspect. 2024 Jul;132(7):71304. doi: 10.1289/EHP15445. Epub 2024 Jul 24. PMID: 39046249; PMCID: PMC11268132.
14. \*Deng Y, Steenland K, Sinharoy SS, Peel JL, Ye W, Pillarisetti A, Eick SM, Chang HH, Wang J, Chen Y, Young BN, Clark ML, **Barr DB**, Clasen On Behalf Of The Hapin Investigators TF. Association of household air pollution exposure and anemia among pregnant women: Analysis of baseline data from 'Household Air Pollution Intervention Network (HAPIN)' trial. Environ Int. 2024 Aug;190:108815. doi: 10.1016/j.envint.2024.108815. Epub 2024 Jun 13. PMID: 38889623; PMCID: PMC11365361.
15. \*Everson TM, Sehgal N, **Barr DB**, Panuwet P, Yakimavets V, Perez C, Shankar K, Eick SM, Pearson KJ, Andres A. Placental PFAS concentrations are associated with perturbations of placental DNA methylation at loci with important roles on cardiometabolic health. medRxiv [Preprint]. 2024 May 7:2024.05.06.24306905. doi: 10.1101/2024.05.06.24306905. Update in: Environ Pollut. 2025 Jan 23:125737. doi: 10.1016/j.envpol.2025.125737. PMID: 38766233; PMCID: PMC11100840.
16. \*Patil SS, Puttaswamy N, Cardenas A, **Barr DB**, Ghosh S, Balakrishnan K. Protocol for CARES-HAPIN: an ambidirectional cohort study on exposure to environmental tobacco smoke and risk of early childhood caries. BMJ Open. 2024 May 15;14(5):e083874. doi: 10.1136/bmjopen-2024-083874. PMID: 38749682; PMCID: PMC11097839.
17. \*Thompson M, Eatman JA, Dunlop AL, **Barr DB**, Kannan K, Corwin EJ, Ryan PB, Panuwet P, Yakimavets V, Taibl KR, Tan Y, Liang D, Eick SM. Prenatal exposure to per- and polyfluoroalkyl substances (PFAS) and associations with hypertensive disorders of pregnancy in the Atlanta African American Maternal-Child cohort. Chemosphere. 2024 Jun;357:142052. doi: 10.1016/j.chemosphere.2024.142052. Epub 2024 Apr 16. PMID: 38631500; PMCID: PMC11087190.
18. Burdette T, Yakimavets V, Panuwet P, Ryan PB, **Barr DB**, Salamova A. Per- and polyfluoroalkyl substances (PFAS) in senior care facilities and older adult residents. Sci Total Environ. 2024 Jun 10;928:172316. doi: 10.1016/j.scitotenv.2024.172316. Epub 2024 Apr 7. PMID: 38593875; PMCID: PMC11075449.
19. \*Eatman JA, Dunlop AL, **Barr DB**, Corwin EJ, Hill CC, Brennan PA, Ryan PB, Panuwet P, Taibl KR, Tan Y, Liang D, Eick SM. Corrigendum to "Exposure to phthalate metabolites, bisphenol A, and psychosocial stress mixtures and pregnancy outcomes in the Atlanta African American maternal-child cohort" [Environ. Res. 233, 15 September 2023, 116464]. Environ Res. 2024 Jun 15;251(Pt 1):118548. doi: 10.1016/j.envres.2024.118548. Epub 2024 Mar 8. Erratum for: Environ Res. 2023 Sep 15;233:116464. doi: 10.1016/j.envres.2023.116464. PMID: 38460339.
20. \*Dang T, Sehgal N, **Barr DB**, Panuwet P, Liang D, Smarr M, Naksen W, Fiedler N, Promkam N, Prapamontol T, Suttiwan P, Sittiwang S, Eick SM. Association of prenatal chlorpyrifos exposure with sexually dimorphic differences in anogenital distance among Thai farmworker children. Environ Res. 2024 May 1;248:118325. doi: 10.1016/j.envres.2024.118325. Epub 2024 Jan 28. PMID: 38286251; PMCID: PMC11023773.
21. \*Taibl KR, Dunlop AL, **Barr DB**, Ryan PB, Panuwet P, Corwin EJ, Eatman JA, Tan Y, Liang D, Eick SM. Phthalate exposure increases interferon-γ during pregnancy: The Atlanta African American Maternal-Child Cohort. Sci Total Environ. 2024 Mar 15;916:170344. doi: 10.1016/j.scitotenv.2024.170344. Epub 2024 Jan 23. Erratum in: Sci Total Environ. 2025 Jan 15;960:178210. doi: 10.1016/j.scitotenv.2024.178210. PMID: 38266723; PMCID: PMC10922519.
22. \*Eberhard T, Casillas G, Zarus GM, **Barr DB**. Systematic review of microplastics and nanoplastics in indoor and outdoor air: identifying a framework and data needs for quantifying human inhalation exposures. J Expo Sci Environ Epidemiol. 2024 Mar;34(2):185-196. doi: 10.1038/s41370-023-00634-x. Epub 2024 Jan 6. PMID: 38184724; PMCID: PMC11142917.
23. \*Janitz AE, Marcotte EL, **Barr DB**, Xu C, Peck JD, Campbell JE. Exposure to persistent organic pollutants in newborn dried blood spots and childhood acute myeloid leukemia. Environ Res. 2024 Mar 1;244:117954. doi: 10.1016/j.envres.2023.117954. Epub 2023 Dec 16. PMID: 38104918; PMCID: PMC10922559.
24. Nimmapirat P, Fiedler N, Suttiwan P, Sullivan MW, Ohman-Strickland P, Panuwet P, **Barr DB**, Prapamontol T, Naksen W; SAWASDEE birth cohort investigative team. Predictors of executive function among 2 year olds from a Thai birth cohort. Infant Behav Dev. 2024 Mar;74:101916. doi: 10.1016/j.infbeh.2023.101916. Epub 2023 Dec 13. PMID: 38096613; PMCID: PMC10947867.
25. \*Liang D, Taibl KR, Dunlop AL, **Barr DB**, Ryan PB, Everson T, Huels A, Tan Y, Panuwet P, Kannan K, Marsit C, Jones DP, Eick SM. Metabolic Perturbations Associated with an Exposure Mixture of Per- and Polyfluoroalkyl Substances in the Atlanta African American Maternal-Child Cohort. Environ Sci Technol. 2023 Oct 31;57(43):16206-16218. doi: 10.1021/acs.est.3c04561. Epub 2023 Oct 19. PMID: 37857362; PMCID: PMC10620983.
26. \*Hoffman SS, Liang D, Hood RB, Tan Y, Terrell ML, Marder ME, Barton H, Pearson MA, Walker DI, **Barr DB**, Jones DP, Marcus M. Assessing Metabolic Differences Associated with Exposure to Polybrominated Biphenyl and Polychlorinated Biphenyls in the Michigan PBB Registry. Environ Health Perspect. 2023 Oct;131(10):107005. doi: 10.1289/EHP12657. Epub 2023 Oct 10. PMID: 37815925; PMCID: PMC10564108.
27. Hood RB, Terrell ML, Mardovich S, Somers EC, Pearson M, Barton H, Tomlinson MS, Marder ME, **Barr DB**, Marcus M. Polybrominated biphenyls (PBBs) and prevalence of autoimmune disorders among members of the Michigan PBB registry. Environ Res. 2023 Dec 15;239(Pt 1):117312. doi: 10.1016/j.envres.2023.117312. Epub 2023 Oct 6. PMID: 37806482; PMCID: PMC10843028.
28. \*Tan Y, Taibl KR, Dunlop AL, **Barr DB**, Panuwet P, Yakimavets V, Kannan K, Corwin EJ, Ryan PB, Eatman JA, Liang D, Eick SM. Association between a Mixture of Per- and Polyfluoroalkyl Substances (PFAS) and Inflammatory Biomarkers in the Atlanta African American Maternal-Child Cohort. Environ Sci Technol. 2023 Sep 12;57(36):13419-13428. doi: 10.1021/acs.est.3c04688. Epub 2023 Aug 30. Erratum in: Environ Sci Technol. 2025 Jan 21;59(2):1467. doi: 10.1021/acs.est.4c13968. PMID: 37649345; PMCID: PMC10900195.
29. \*Yao X, Saikawa E, Warner S, D'Souza PE, Ryan PB, **Barr DB**. Phytoremediation of Lead-Contaminated Soil in the Westside of Atlanta, GA. Geohealth. 2023 Aug 25;7(8):e2022GH000752. doi: 10.1029/2022GH000752. PMID: 37637997; PMCID: PMC10450253.
30. Wang W, Hariharan M, Ding W, Bartlett A, Barragan C, Castanon R, Rothenberg V, Song H, Nery J, Aldridge A, Altshul J, Kenworthy M, Liu H, Tian W, Zhou J, Zeng Q, Chen H, Wei B, Gündüz IB, Norell T, Broderick TJ, McClain MT, Satterwhite LL, Burke TW, Petzold EA, Shen X, Woods CW, Fowler VG Jr, Ruffin F, Panuwet P, **Barr DB**, Beare JL, Smith AK, Spurbeck RR, Vangeti S, Ramos I, Nudelman G, Sealfon SC, Castellino F, Walley AM, Evans T, Müller F, Greenleaf WJ, Ecker JR. Genetics and Environment Distinctively Shape the Human Immune Cell Epigenome. bioRxiv [Preprint]. 2025 Jan 4:2023.06.29.546792. doi: 10.1101/2023.06.29.546792. PMID: 37425926; PMCID: PMC10327221.
31. \*Taibl KR, Dunlop AL, **Barr DB,** Li YY, Eick SM, Kannan K, Ryan PB, Schroder M, Rushing B, Fennell T, Chang CJ, Tan Y, Marsit CJ, Jones DP, Liang D. Newborn metabolomic signatures of maternal per- and polyfluoroalkyl substance exposure and reduced length of gestation. Nat Commun. 2023 May 30;14(1):3120. doi: 10.1038/s41467-023-38710-3. PMID: 37253729; PMCID: PMC10229585.
32. \*Eatman JA, Dunlop AL, **Barr DB**, Corwin EJ, Hill CC, Brennan PA, Ryan PB, Panuwet P, Taibl KR, Tan Y, Liang D, Eick SM. Exposure to phthalate metabolites, bisphenol A, and psychosocial stress mixtures and pregnancy outcomes in the Atlanta African American maternal-child cohort. Environ Res. 2023 Jun 19;233:116464. doi: 10.1016/j.envres.2023.116464. Epub ahead of print. PMID: 37343758.
33. Quiros-Alcala L, **Barr DB**. Invited Perspective: Mixtures-Are They Worth the Risk (Assessment)? Environ Health Perspect. 2023 Apr;131(4):41301. doi: 10.1289/EHP12596. Epub 2023 Apr 6. PMID: 37022725; PMCID: PMC10078803.
34. \*Peters SJW, Warner SM, Saikawa E, Ryan PB, Panuwet P, **Barr DB**, D'Souza PE, Frank G, Hernandez R, Alvarado T, Hines A, Theal C. Community-Engaged Assessment of Soil Lead Contamination in Atlanta Urban Growing Spaces. Geohealth. 2023 Mar 24;7(3):e2022GH000674. doi: 10.1029/2022GH000674. PMID: 36968153; PMCID: PMC10038125.
35. \*Eick SM, Tan Y, Taibl KR, Barry Ryan P, **Barr DB**, Hüls A, Eatman JA, Panuwet P, D'Souza PE, Yakimavets V, Lee GE, Brennan PA, Corwin EJ, Dunlop AL, Liang D. Prenatal exposure to persistent and non-persistent chemical mixtures and associations with adverse birth outcomes in the Atlanta African American Maternal-Child Cohort. J Expo Sci Environ Epidemiol. 2023 Feb 25. doi: 10.1038/s41370-023-00530-4. Epub ahead of print. PMID: 36841843.
36. Li Q, Lesseur C, Srirangam P, Kaur K, Hermetz K, Caudle WM, Fiedler N, Panuwet P, Prapamontol T, Naksen W, Suttiwan P, Baumert BO, Hao K, **Barr DB**, Marsit CJ, Chen J. Associations between prenatal organophosphate pesticide exposure and placental gene networks. Environ Res. 2023 May 1;224:115490. doi: 10.1016/j.envres.2023.115490. Epub 2023 Feb 23. PMID: 36828252; PMCID: PMC10054353.
37. \*Taibl KR, Liang D, Dunlop AL, **Barr DB**, Smith MR, Steenland K, Tan Y, Ryan PB, Panuwet P, Everson T, Marsit CJ, Kannan K, Jones DP, Eick SM. Pregnancy-related hemodynamic biomarkers in relation to trimester-specific maternal per - and polyfluoroalkyl substances exposures and adverse birth outcomes. Environ Pollut. 2023 Apr 15;323:121331. doi: 10.1016/j.envpol.2023.121331. Epub 2023 Feb 20. PMID: 36813097; PMCID: PMC10023492.
38. Hood RB, Terrell ML, Smith AK, Curtis S, Conneely K, Pearson M, Barton H, **Barr DB**, Marder EM, Marcus M. Elimination of PBB-153; findings from a cohort of Michigan adults. Environ Res. 2023 Mar 1;220:115146. doi: 10.1016/j.envres.2022.115146. Epub 2022 Dec 23. PMID: 36566966; PMCID: PMC9898188.
39. \*Barr KJ, Johnson CL, Cohen J, D'Souza P, Gallegos EI, Tsai CC, Dunlop AL, Corwin EJ, **Barr DB**, Ryan PB, Panuwet P. Legacy Chemical Pollutants in House Dust of Homes of Pregnant African Americans in Atlanta. Toxics. 2022 Dec 3;10(12):755. doi: 10.3390/toxics10120755. PMID: 36548588; PMCID: PMC9784423.
40. Nakayama SF, St-Amand A, Pollock T, Apel P, Bamai YA, **Barr DB**, Bessems J, Calafat AM, Castaño A, Covaci A, Duca RC, Faure S, Galea KS, Hays S, Hopf NB, Ito Y, Jeddi MZ, Kolossa-Gehring M, Kumar E, LaKind JS, López ME, Louro H, Macey K, Makris KC, Melnyk L, Murawski A, Naiman J, Nassif J, Noisel N, Poddalgoda D, Quirós-Alcalá L, Rafiee A, Rambaud L, Silva MJ, Ueyama J, Verner MA, Waras MN, Werry K. Interpreting biomonitoring data: Introducing the international human biomonitoring (i-HBM) working group's health-based guidance value (HB2GV) dashboard. Int J Hyg Environ Health. 2023 Jan;247:114046. doi: 10.1016/j.ijheh.2022.114046. Epub 2022 Nov 7. PMID: 36356350.
41. \*Eick SM, **Barr DB**, Brennan PA, Taibl KR, Tan Y, Robinson M, Kannan K, Panuwet P, Yakimavets V, Ryan PB, Liang D, Dunlop AL. Per- and polyfluoroalkyl substances and psychosocial stressors have a joint effect on adverse pregnancy outcomes in the Atlanta African American Maternal-Child cohort. Sci Total Environ. 2023 Jan 20;857(Pt 2):159450. doi: 10.1016/j.scitotenv.2022.159450. Epub 2022 Oct 14. PMID: 36252672; PMCID: PMC9884463.
42. Han I, Seo JY, **Barr DB**, Panuwet P, Yakimavets V, D'Souza PE, An-Han H, Afshar M, Chao YY. Evaluating Indoor Air Phthalates and Volatile Organic Compounds in Nail Salons in the Greater New York City Area: A Pilot Study. Int J Environ Res Public Health. \*2022 Sep 29;19(19):12411. doi: 10.3390/ijerph191912411. PMID: 36231706; PMCID: PMC9566193.
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14. Cragin L, Kesner J, **Barr DB**, Bachand A, Meadows J, and Reif J. Menstrual cycle characteristics and reproductive patterns in women exposed to atrazine in drinking water. Epidemiology. 2006 Nov; 17(6) Suppl:S369.
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17. **Barr DB**. Overview of exposure assessment techniques. Epidemiology. 2006 Nov; 17(6) Suppl:S293-S294.
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19. **Barr DB**, Khoury J, Xu Y, Baez S, Bearer C, Dietrich K, Hornung R, Davis M, L Needham, and Lanphear B. Assessment of maternal and infant exposures to pesticides and persistent pollutants. Epidemiology. 2006 Nov; 17(6) Suppl:S135-S136.
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21. Eskenazi B, Marks AR, Harley K, Bradman A, Johnson C, **Barr DB**, Morga N, and Jewell NP. Organophosphate pesticides and neurodevelopment in young Mexican- American children. Epidemiology. 2006 Nov; 17(6) Suppl:S102-S103.
22. Rauh VA, Garfinkel R, Perera R, Andrews H, **Barr DB**, Whitehead RD Jr, Tang D, and Whyatt RM. Impact of prenatal chlorpyrifos exposure on neurodevelopment in the first three years of life among inner-city children. Epidemiology. 2006 Nov; 17(6) Suppl:S102.
23. Bradman A, Harnly M, Schwartz J, **Barr DB**, Mckone T, and Eskenazi B. Longitudinal analysis of factors predicting organophosphate pesticide exposure to children living in an agricultural area at ages 6, 12, and 24 months. Epidemiology. 2006 Nov; 17(6) Suppl:S101.
24. Rubin C, Kiesak S, Holmes A, Marcus M, Heron J, **Barr DB**, Calafat A, Sjodin A, Mcgeehin M, Jones R, and Golding J. Physical maturation and exposure to environmental chemicals: A cohort analysis. Epidemiology. 2006 Nov; 17(6) Suppl:S100- S101.
25. Morgan M, Stout D, and **Barr DB**. Pilot study of the potential for human exposures to pet-borne diazinon residues following lawn applications. Epidemiology. 2006 Nov; 17(6) Suppl:S91.
26. Whyatt RM, Perera FP, Williams MK, **Barr DB**, Camann DE, and Rauh VA. Residential pesticides use during pregnancy among an inner-city cohort in New York city: Resultant health effects and an intervention to reduce exposures. Epidemiology. 2006 Nov; 17(6) Suppl:S87.
27. Angerer J, and **Barr DB**. HBM as a reliable tool for assessing exposure to environmental chemicals and ensuring comparable data across studies. Epidemiology. 2006 Nov; 17(6) Suppl:S74-S75.
28. Sabogal R, McElroy RH, Robertson G, **Barr DB**, Camann D, Rubin C, Kieszak S, and Hern S. Pesticide exposure in children living in agricultural areas along the United States - Mexico border: A cross-sectional study. Revista Salud Publica y Nutricion. 2006; Special edition 12-2006, abstract 184.
29. **Barr DB**, Weihe P, Davis MD, Needham LL, and Grandjean P. Serum polychlorinated biphenyl and organochlorine insecticide concentrations in a Faroese birth cohort. Epidemiology. 2005; 16: S94.
30. Eskenazi B, Marks AR, Fenster L, Bradman A, Rodriguez ME, **Barr DB**, and Jewell NP. In utero DDT and DDE exposure and neurodevelopment in children of farmworkers. Epidemiology. 2005; 16: S101.
31. 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.
32. Bradman A, Fenster L, **Barr DB**, Anderson M, Weltzien E, Schwartz J, Calderon N, Holland N, and Eskenazi B. DDT and DDE levels in a cohort of pregnant Mexican- American women living in an agricultural area in California. Epidemiology. 2005; 16: S103.
33. Allen R, Mage D, Gondy G, Christensen C, **Barr DB**, and Needham LL. The use of a creatinine correction for reporting children's urinary pesticide concentrations. Epidemiology. 2004; 15: S69.
34. 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.
35. Rauh V, Perera F, Tang DL, **Barr DB**, Camann D, Kinney PL, Andrews H, and Wyatt RM. Relationship between prenatal environmental exposures, birth outcomes and cognitive development in an urban minority cohort. Epidemiology. 2004; 15: S87.
36. Dietrich K, Bearer CF, Kahn R, Yolton K, Hornung R, **Barr DB**, Ris D, Wright J, Watson G, and Lanphear BP. Long-term adverse neurobehavioral consequences of low- level exposure to environmental toxins: An update of the Cincinnnati children's environmental health center. Epidemiology. 2004; 15:S90-S90.
37. **Barr DB**, Olsson A, Bravo R, and Needham LL. New laboratory methods for identifying human exposure to non-persistent pesticides. Epidemiology. 2004; 15:S179.
38. **Barr DB**, and Needham LL. Reference ranges for pesticides: The national exposure report. Epidemiology. 2004; 15: S180.
39. Mendola P, **Barr DB**, Walsh D, Hern S, Rhoney S, Needham LL, Hilborn E, Gonzales M, and Carty C. Organophosphate pesticide exposures - Where are the high risk children? Epidemiology. 2004; 15: S180-S181.
40. Meeker J, Ryan L, **Barr DB**, Herrick R, Bennett D, and Hauser R. Contemporary use insecticides and human semen quality. Epidemiology. 2004; 15:S190.
41. Duty SM, Silva MJ, **Barr DB**, Brock JW, Ryan L, Chen ZY, Herrick RF, Christiani DC, and Hauser R. Phthalate exposure and human semen parameters. Epidemiology. 2003; 14:269-277.
42. Silva MJ, Malek NA, Kato K, Brock JW, **Barr DB**, Needham LL, and Calafat AM. Assessing human exposure to phthalates. Epidemiology. 2002; 13:224.
43. 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.
44. Whyatt RM, Camann DE, **Barr DB**, Barr JR, Andrews HF, Kinney PL, Hoeptner LA, and Perera FP. Pesticide exposures during pregnancy among urban minority mothers and newborns. Epidemiology. 2002; 13: 308.
45. Bradman A, **Barr DB**, Drumheller T, and Eskenazi B. Feasibility of using amniotic fluid to assess fetal pesticide exposure. Epidemiology. 2002; 13: 322.
46. 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.
47. Shalat SL, Donnelly KC, Freeman NCG, Calvin J, Black K, Jimenez M, Coutinho C, Needham LL, **Barr DB**, and Ramirez J. Quantitative behavioral assessment as a tool for modeling pesticide dose in children. Epidemiology. 2002; 13:526.
48. 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.
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, 2021-present

EH510: Foundations in Exposure Science (online). 2025-present

EH500D: CMPH Perspectives in Environmental Health, 2011-2016

EH527: Biomarkers in Environmental Public Health. 2010-2023

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.

2025 Kaitlin Taibl. Molecular phenotyping of a per- and polyfluoroalkyl substances (PFAS) mixture during human pregnancy with high-throughput, high-resolution, high-dimensional technologies

2025 Jasmin Eaton. The association of co-exposures to endocrine disrupting chemicals and perceived gendered racial stress with birth outcomes.

# 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.

2026 Neha Seghal. Impact of prenatal cannabis use and co-occurring exposures of tobacco and pesticides on postnatal infant neurobehavior

# 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