**CURRICULUM VITAE**

**NAME: Carmen J. Marsit, Ph.D. Date updated: February 2021**

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**CURRENT ACADEMIC APPOINTMENT**

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| **DATE** | **INSTITUTION** | **TITLE** |
| 2021-present | Rollins School of Public Health of Emory University | Rollins Distinguished Professor of Research |
| 2019-present | Rollins School of Public Health of Emory University | Associate Dean for Research |
| 2016-present | Rollins School of Public Health of Emory University, Department of Environmental Health | Professor (*with tenure*) |
| 2017-present | Rollins School of Public Health of Emory University, Department of Epidemiology | Professor (*with tenure*) |
| 2014-present | Brown University School of Public Health, Department of Epidemiology | Adjunct Professor |
| 2016-present | Geisel School of Medicine at Dartmouth, Department of Epidemiology | Adjunct Professor |

**PREVIOUS ACADEMIC APPOINTMENTS**

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| **DATE** | **INSTITUTION** | **TITLE** |
| 2004-2005 | Harvard School of Public Health, Department of Genetics and Complex Diseases, Boston, MA | NIH/NIEHS Postdoctoral Fellow |
| 2005-2006 | Harvard School of Public Health, Department of Genetics and Complex Diseases, Boston, MA | Research Associate |
| 2007-2011 | Brown University, Department of Pathology and Laboratory Medicine, Providence, RI | Assistant Professor |
| 2010-2011 | Brown University, Department of Community Health, Center for Environmental Health and Technology, Brown University, Providence, RI | Assistant Professor |
| 2011-2014 | Brown University, Department of Epidemiology, Providence, RI | Adjunct Assistant Professor |
| 2014-present | Brown University, Department of Epidemiology, Providence, RI | Adjunct Associate Professor |
| 2011-2012 | Geisel School of Medicine at Dartmouth, Departments of Pharmacology and Toxicology, and of Community and Family Medicine, Section of Epidemiology and Biostatistics | Assistant Professor |
| 2011-2019 | Women and Infants Hospital of Rhode Island, Department of Pediatrics | Affiliated Health Professional |
| 2012-2016 | Geisel School of Medicine at Dartmouth, Departments of Pharmacology and Toxicology, and of Epidemiology | Associate Professor |

**EDUCATION**

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| **DATE** | **INSTITUTION** | **DEGREE** |
| 1996-2000 | Lafayette College, Easton, PA | B.S., Biochemistry (*summa cum laude*) |
| 2000-2004 | Harvard University, Cambridge, MA | Ph.D., Biological Sciences in Public Health |

**POSTDOCTORAL TRAINING**

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| **DATE** | **INSTITUTION** | **SPECIALTY** |
| 2004-2006 | Harvard School of Public Health, Boston, MA | Cancer Molecular Epidemiology and Epigenetics |

**INSTITUTIONAL LEADERSHIP ROLES**

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| **DATE** | **INSTITUTION** | **TITLE** |
| 2013-2016 | Dartmouth Hitchcock Norris Cotton Comprehensive Cancer Center | Director, Program in Cancer Epidemiology |
| 2015-2016 | Geisel School of Medicine | Co-Director, Burroughs Wellcome Training Program Bridging Laboratory and Population Sciences |
| 2015-2016 | Geisel School of Medicine | Chair, Graduate Program in the Quantitative Biomedical Sciences |
| 2018-current | Rollins School of Public Health of Emory University | Director, Training Program in the Environmental Health Sciences and Toxicology (T32) |
| 2018-current | Rollins School of Public Health of Emory University | Director, HERCULES Exposome Research Center (P30) |

**BIBLIOGRAPHY**

**Bibliographic Metrics:**

**H-Index: 73**

**Total Citations: 19355**

**Total Publications: 279**

**Peer Reviewed Original articles:**

(\* indicates student authors)

1. Young BA, Meltzer K, and **Marsit C**. *Scratching the Surface of Mimicry: Sound Production through Scale Abrasion in Snakes.* Hamadryad, 1999. **24**: p. 29-38.

2. Young BA, Meltzer K, **Marsit C**, and Abishahin G. *Cloacal popping in snakes.* Journal of Herpetology, 1999. **33**(4): p. 557-566.

3. Young BA, **Marsit C**, and Meltzer K. *Comparative morphology of the cloacal scent gland in snakes (Serpentes: Reptilia).* Anat Rec, 1999. **256**(2): p. 127-38.

4. **Marsit CJ**, Fried B, and Sherma J. *Carbohydrate analysis, by high performance thin layer chromatography, of Cerithidea californica (Gastropoda : Prosobranchia).* J Liquid Chromatography Related Technologies, 2000. **23**(15): p. 2413-7.

5. **Marsit CJ**, Fried B, and Sherma J. *Neutral lipids in cercariae, encysted metacercariae, and rediae of Echinostoma caproni.* J Helminthol, 2000. **74**(4): p. 365-7.

6. **Marsit CJ**, Fried B, and Sherma J. *High-performance thin-layer chromatographic analysis of lutein and beta-carotene in Cerithidia californica (Gastropoda) infected with two species of larval trematodes.* J Parasitol, 2000. **86**(3): p. 635-6.

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8. **Marsit CJ**, Hasegawa M, Hirao T, Kim DH, Aldape K, Hinds PW, Wiencke JK, Nelson HH, and Kelsey KT. *Loss of heterozygosity of chromosome 3p21 is associated with mutant TP53 and better patient survival in non-small-cell lung cancer.* Cancer Res, 2004. **64**(23): p. 8702-7.

9. **Marsit, C.J.**, Liu, M., Nelson, H.H., Posner, M., Suzuki, M., and Kelsey, K.T., *Inactivation of the Fanconi anemia/BRCA pathway in lung and oral cancers: implications for treatment and survival.* Oncogene, 2004. **23**(4): p. 1000-4.

10. **Marsit, C.J.**, Wiencke, J.K., Liu, M., and Kelsey, K.T., *The race associated allele of Semaphorin 3B (SEMA3B) T415I and its role in lung cancer in African-Americans and Latino-Americans.* Carcinogenesis, 2005. **26**(8): p. 1446-9.

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12. **Marsit, C.J.**, Zheng, S., Aldape, K., Hinds, P.W., Nelson, H.H., Wiencke, J.K., and Kelsey, K.T., *PTEN expression in non-small-cell lung cancer: evaluating its relation to tumor characteristics, allelic loss, and epigenetic alteration.* Hum Pathol, 2005. **36**(7): p. 768-76.

13. **Marsit, C.J.**, Kim, D.H., Liu, M., Hinds, P.W., Wiencke, J.K., Nelson, H.H., and Kelsey, K.T., *Hypermethylation of RASSF1A and BLU tumor suppressor genes in non-small cell lung cancer: implications for tobacco smoking during adolescence.* Int J Cancer, 2005. **114**(2): p. 219-23.

14. Hirao, S., Hirao, T., **Marsit, C.J.**, Hirao, Y., Schned, A., Devi-Ashok, T., Nelson, H.H., Andrew, A., Karagas, M.R., and Kelsey, K.T., *Loss of heterozygosity on chromosome 9q and p53 alterations in human bladder cancer.* Cancer, 2005. **104**(9): p. 1918-23.

15. **Marsit, C.J.**, Okpukpara, C., Danaee, H., and Kelsey, K.T., *Epigenetic silencing of the PRSS3 putative tumor suppressor gene in non-small cell lung cancer.* Mol Carcinog, 2005. **44**(2): p. 146-50.

16. Nelson, H.H., Wilkojmen, M., **Marsit, C.J.**, and Kelsey, K.T., *TP53 mutation, allelism and survival in non-small cell lung cancer.* Carcinogenesis, 2005. **26**(10): p. 1770-3.

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62. Gee GV, Koestler DC, Christensen BC, Sugarbaker DJ, Ugolini D, Ivaldi GP, Resnick MB, Houseman EA, Kelsey KT, & **Marsit CJ.** *Downregulated MicroRNAs in the Differential Diagnosis of Malignant Pleural Mesothelioma.* Int J Cancer 2010, 127(12):2859-69.

63. Poage GM\*, Christensen BC, Houseman EA, McClean MD, Wiencke JK, Posner MR, Clark JR, Nelson HH, **Marsit CJ**, & Kelsey KT. *Genetic and epigenetic somatic alterations in head and neck squamous cell carcinomas are globally coordinated but not locally targeted.* PLoS One 2010, 5(3): e9651.

64. Christensen, BC, Houseman EA, Poage G, Godleski JJ, Bueno R, Sugarbaker DJ, Wiencke JK, Nelson HH, **Marsit CJ**, & Kelsey KT. *Integrated profiling of DNA methylation and copy number reveals global, not local correlation between epigenetic and genetic alterations in pleural mesothelioma.* Cancer Res 2010, 70(14): 5686-94.

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72. Koestler DC\*, Christensen BC, Karagas MR, Bueno R, Sugarbaker DJ, Kelsey KT, **Marsit CJ**, & Houseman EA. *Semi-Supervised Recursively Partitioned Mixture Models for Identifying Cancer Subtypes* Bioinformatics 2010, 26(20):2578-85.

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249. Litzky JF, **Marsit CJ**. *Epigenetically regulated imprinted gene expression associated with IVF and infertility: possible influence of prenatal stress and depression.* J Assist Reprod Genet. 2019 Jul;36(7):1299-1313.

250. 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 14(10):1003-1018.

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252. Wang Y, Brummel SS, Beilstein-Wedel E, Dagnall CL, Hazra R, Kacanek D, Chadwick EG, **Marsit CJ**, Chanock SJ, Savage SA, Poirier MC, Machiela MJ, Engels EA; Pediatric HIV/AIDS Cohort Study. *Association between zidovudine-containing antiretroviral therapy exposure in utero and leukocyte telomere length at birth*. AIDS. 2019 (epub ahead of print).

253. 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, 11(15):5498-5517

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259. Tian F-Y, Everson TM, Lester B, Punshon T, Jackson BP, Hao K, Lesseur C, Chen J, Karagas MR, **Marsit CJ**. Selenium-Associated DNA Methylation Modifications in Placenta and Neurobehavioral Development of Newborns: An Epigenome-Wide Study of Two U.S. Birth Cohorts. Environ Int 2020, *in press*.

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274. Kennedy EM, Hermetz K, Burt A, Everson TM, Deyssenroth M, Hao K, Chen J, Karagas MR, Pei D, Koestler DC, **Marsit CJ**. *Placental microRNA expression associates with birthweight through control of adipokines: results from two independent cohorts*. Epigenetics. 2020 Oct 4:1-13.

275. Aghagoli G, Sheinkopf SJ, Everson TM, **Marsit CJ**, Lee H, Burt AA, Carter BS, Helderman JB, Hofheimer JA, McGowan EC, Neal CR, O'Shea TM, Pastyrnak SL, Smith LM, Soliman A, Dansereau LM, DellaGrotta SA, Padbury JF, Lester BM. *Epigenome-wide analysis identifies genes and pathways linked to acoustic cry variation in preterm infants*. Pediatr Res. 2020 Sep 23. Epub ahead of print.

276. Grieshober L, Graw S, Barnett MJ, Thornquist MD, Goodman GE, Chen C, Koestler DC, **Marsit CJ**, Doherty JA. *AHRR methylation in heavy smokers: associations with smoking, lung cancer risk, and lung cancer mortality*. BMC Cancer. 2020 Sep 22;20(1):905.

277. Everson TM, O'Shea TM, Burt A, Hermetz K, Carter BS, Helderman J, Hofheimer JA, McGowan EC, Neal CR, Pastyrnak SL, Smith LM, Soliman A, DellaGrotta SA, Dansereau LM, Padbury JF, Lester BM, **Marsit CJ**. *Serious neonatal morbidities are associated with differences in DNA methylation among very preterm infants*. Clin Epigenetics. 2020 Oct 19;12(1):151.

278. Stein CM, Benchek P, Bartlett J, Igo RP, Sobota RS, Chervenak K, Mayanja-Kizza H, von Reyn CF, Lahey T, Bush WS, Boom WH, Scott WK, **Marsit C**, Sirugo G, Williams SM. *Methylome-wide analysis reveals epigenetic marks associated with resistance to tuberculosis in HIV-infected individuals from East Africa*. J Infect Dis. 2021 Jan 5:jiaa785. Epub ahead of print.

279. Santos HP Jr, Bhattacharya A, Joseph RM, Smeester L, Kuban KCK, **Marsit CJ**, O'Shea TM, Fry RC. *Evidence for the placenta-brain axis: multi-omic kernel aggregation predicts intellectual and social impairment in children born extremely preterm*. Mol Autism. 2020 Dec 11;11(1):97.

**Book chapters:**

1. **Marsit CJ**, LaMontagne AD, Kelsey KT. Biological Markers in Occupational and Environmental Medicine. In: Rosenstock, L., Cullen, M.R., Brodkin, C.A., and Redlich, C.A. Textbook of Clinical Occupational and Environmental Medicine (2nd edition). Philadelphia: Elsevier, Inc. 2005:139-46.

1. Christensen BC, **Marsit CJ**, and Kelsey KT. Role of environmental factors on the epigenome. In: Michels, K.B. Epigenetic Epidemiology. London: Springer Science 2012.
2. **Marsit CJ** and Christensen BC. Blood-derived DNA methylation markers of cancer risk. In: Karpf, A. Epigenetic Alterations in Oncogenesis. New York: Springer 2013.
3. Lester BM, **Marsit CJ**, and Bromer C. Behavioral Epigenetics and the Developmental Origins of Child Mental Health Disorders. In: Brandt, Perry, Seligman, Tronick. Infant and Early Childhood Mental Health: Core Concepts and Clinical Practice. Arlington, VA: American Psychiatric Publishing 2014.
4. Everson TM & **Marsit CJ**. Epidemiological Concepts in Environmental Epigenetics. In: Fry, R. Environmental Epigenetics in Toxicology and Public Health. Elsevier (under review).

**Conference Abstracts (Most Recent 5 Years):**

46. Lesseur C\*, Armstrong DA, Paquette AG\*, Appleton AA, Koestler DC, Padbury JF, Karagas MR, **Marsit CJ**. *Cord Blood Leptin Gene Promoter DNA Methylation is Associated with Infant Birthweight.* Society for Gynecological Investigation Annual Meeting, 2013.

47. Paquette AG\*, Lesseur C\*, Armstrong DA, Koestler DC, Lester BM, **Marsit CJ**. Epigenetic *Modulation of the Placental Serotonin Response Pathway and its Role in Development.* Society for Gynecological Investigation Annual Meeting, 2013.

48.Koestler DC, Murphy MA, Houseman EA, Karagas MR, Kelsey KT, **Marsit CJ**. *Profiles of DNA methylation in peripheral blood are associated with bladder cancer survival*. Proc Am Assoc Cancer Res, 54, 2013.

49. **Marsit CJ**, Koestler DC, Maccani JZJ\*, Lesseur C, Armstrong D, Kelsey KT, Houseman EA, Karagas MR. *Epigenetic Effects of Environmental Trace Metals Exposure In Utero.* NIEHS/USEPA Children’s Health Centers Annual Meeting, Washington, DC, 2013.

50. Lesseur C\*, Armstrong DA, Paquette AG\*, Li Z, Padbury JF, **Marsit CJ**. *Maternal Obesity and Gestational Diabetes are Associated with Leptin Promoter DNA Methylation in Human Placenta*. Pediatric Academic Societies Annual Meeting, Vancover BC, 2014.

51. Paquette AG\*, Lester BM, Armstrong DA, Lesseur C, **Marsit CJ**. *Placental FKBP5 Genetic and Epigenetic Variation is associated with Infant Neurobehavioral Outcomes.* Pediatric Academic Societies Annual Meeting, Vancover BC, 2014. (*Student [AG Paquette] Platform Presentation*)

52. Rideout K, Parade S, Seifer R, **Marsit C**, Lesseur C, Armstrong D, Eslinger N, McWilliams M, Philip N, Josefson B, Tyrka A. *Exposure to adversity in pre-school aged children, glucocorticoid receptor gene methylation, and behavioral outcomes*. ACNP 53rd Annual Meeting.

53. Paquette AG\*, Lester BM, Lesseur C\*, Armstrong DA, Guerin DJ, Appleton AA, **Marsit CJ**. *Placental epigenetic patterning of cortisol response genes is associated with infant neurodevelopmental outcomes and maternal environment*. Prenatal Programming and Toxicology IV, Boston, MA. 2014

54. Green BB, Armstrong DA, Guerin DJ, Houseman EA, **Marsit CJ**. *Linking Differential Placental Methylation To the Occurrence of Intrauterine Growth Restriction.* Society for Reproductive Investigation Annual Meeting, San Francisco, CA. 2015

55. Green BB, Kappil M, Lambertini L, Armstrong DA, Geurin DG, Lester BM, Chen J, **Marsit CJ**. *Expression Profiles of a Subset of Placental Imprinted Genes May Predict Infant Neurobehavioral Outcomes*. Teratology Society Annual Meeting, Montreal, Quebec, Canada, 2015.

56. Kappil M, Lambertini L, Guerin D, Green B, **Marsit C**, Chen J. *Disruption in Placental Expression of Imprinted Genes is Associated with Birthweight*. Teratology Society Annual Meeting, Montreal, Quebec, Canada, 2015.

57. Everson TM, Armstrong DA, Guerin DJ, Punshon T, Jackson BP, Lambertini L, Chen J, Karagas MR, **Marsit CJ**. *Differential methylation throughout the placental genome and upstream of H19 is associated with cadmium exposure: an epigenome-wide association study.* Central and Eastern European Conference on Health and the Environment Conference; Prague, Czech Republic, 2016.

58. Thompson J, **Marsit CJ**. Methylation to Expression Quantitative Trait Loci (m2eQTL) Reveal Disruption of Networks Associated with Cancer Prognosis. Proc Am Assoc Cancer Res, 57, 2016.

58. Everson TM, Armstrong DA, Jackson BP, Punshon T, Karagas MR, **Marsit CJ**. *Marker of placental cytotoxicity, KLRK1 expression, associated with maternal cadmium exposure.* International Society for Environmental Epidemiology Annual Meeting, Rome, Italy, 2016.

59. Fu-Ying Tian, Todd M. Everson, Barry Lester, Tracy Punshon, Brian P. Jackson, Ke Hao, Jia Chen, Margaret R. Karagas, and **Carmen J. Marsit**. The Association between Prenatal Selenium-Related DNA Methylation Modifications in Placenta and Newborn Neurobehavioral Development: An Epigenome-Wide Study of Two U.S. Birth Cohorts. ISES-ISEE. Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology 2018, Ottawa, Canada (oral presentation F-YT).

60. Everson TM, **Marsit CJ**. *Using molecular -omics in environmental epidemiology to gain unique insights into environmental health.* Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology 2018, Ottawa, Canada (oral presentation TME)

61. Everson TM, **Marsit CJ**, Burt A, Hermetz K, Hagood JS, Jackson W, Carter BS, Helderman JB, Hofheimer JA, McGowan E, Neal CR, Pastyrnak SL, Smith LM, Soliman A, Dellagrotta SA, Dansereau LM, Padbury JF, Lester BM, *O’Shea TM.  DNA methylation variations associated with medical complications in very preterm infants at NICU discharge*. Pediatric Academic Societies; Baltimore, MD, USA (Oral Presentation TME).

62. Everson TM, Tian F-Y, Kennedy EM, Karagas MR, Chen J, **Marsit CJ**. *Placental metallics and associated molecular responses - DNA methylation and gene expression. 10th Conference on Metal Toxicity & Carcinogenesis*; Albuquerque, NM, USA (Oral Presentation TME).

63. Everson TM, Marable C, Deyssenroth M, Jackson BP, Lambertini L, Chen J, Karagas MR, Marsit CJ. *Prenatal cadmium exposures associate with the expression of placental imprinted genes overall and in sex-specific patterns.* Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology 2018, Ottawa, Canada

64. Kennedy EM, Everson TM, Punshon T, Jackson BP, Hao K, Lambertini L, Chen J, Karagas MR, **Marsit CJ**. *Copper Associates with Differential Methylation in Placentae from Two US Birth Cohorts*. Teratology Society Annual Meeting, San Diego, CA 2019 (Oral Presentation EMK)

65. Kennedy EM, Hermetz K, Burt A, Everson TM, Hao K, Chen J, Karagas MR, **Marsit CJ**. *Placental microRNAs in the regulation* *of fetal growth: a meta-analysis of two independent mother-infant cohorts*. American Society of Human Genetics annual meeting. Houston, TX. October 2019.

66. Everson TM, …..Marsit C. *Placental methylation signatures from maternal smoking during pregnancy and potential impacts on fetal growth: meta-analyses from 7 cohorts*. Annual Meeting of the International Society for Environmental Epidemiology. Utrecht, The Netherlands. August 2019.

**ENTREPRENEURIAL ACTIVITIES**

1. US Patent: **Marsit CJ,** Karagas MR, Andrew AS, Liu M, Kelsey KT. *Compositions and Methods for Detecting Markers of Cancer.* **USPTO Application #:** 20090155786.
2. US Patent: Christensen BC, Houseman EA, Yeh RF, Godleski JG, Bueno R, Sugarbaker DJ, Karagas MR, Wrensch MR, Wiemels JL, Zheng S, **Marsit CJ**, Nelson HH, Wiencke JK, Kelsey KT. *Diagnosing, prognosing, and early detection of cancers by DNA methylation profiling*. **USPTO #: 61/222,558**
3. US Patent: Avissar M, Christensen BC, Kelsey KT, **Marsit CJ*.*** *Methods of Diagnosing Carcinoma.* **USPTO#: 61/209,320, PCT/US2010/026388**

**PAPER PRESENTATIONS**

**International Location:**

|  |  |  |  |
| --- | --- | --- | --- |
| **DATE** | **TOPIC/TITLE** | **ORGANIZATION** | **LOCATION** |
| 2005 | *Carcinogen exposure and epigenetic silencing in bladder cancer* | Conference of the Collegium Ramazinni | Bologna, Italy |
| 2008 | *MicroRNA Alterations in Malignant Pleural Mesothelioma as Biomarkers of Disease* | 9th International Conference of the International Mesothelioma Interest Group (IMIG) | Amsterdam, Netherlands |
| 2013 | *Prenatal Environment, Epigenetic Mechanisms and the Developmental Origins of Health and Disease* | International Society for Environmental Epidemiology Annual Meeting | Basel, Switzerland |
| 2016 | *Implications of Environmental Exposures in Human Population* | Central and Eastern European Conference on Health and the Environment | Prague, Czech Republic |
| 2018 | *Epigenome-wide Analysis Identifies Genes and Pathways Linked to Neurobehavioral Variation in Preterm Infants* | Pediatric Academic Societies Annual Meeting | Toronto, Ontario, Canada |
| 2018 | *Epigenetic mechanisms linking early life exposures and child health (Session Chair/Presenter)* | Pediatric Academic Societies Annual Meeting 2018 | Toronto, Ontario, Canada |

**National Location:**

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| **DATE** | **TOPIC/TITLE** | **ORGANIZATION** | **LOCATION** |
| 2004 | *Promoter hypermethylation defines clonal fields in lung cancer patients* | AACR Special Conference on Chromatin, Chromosomes, and Cancer Epigenetics | Kona, Hawaii |
| 2007 | *Does DNA hypermethylation and genetic deletion occur as distinct pathways in aerodigestive malignancy* | AACR Special Conference: Advances and Challenges in Aerodigestive Epithelial Cancer | Charleston, SC |
| 2010 | *DNA Methylation Arrays Identify HOXB2 and KRT13 Methylation as Markers of Invasive Bladder Cancer and Poor Patient Survival* | AACR Special Meeting on Cancer Epigenetics | San Juan, Puerto Rico |
| 2010 | *DNA Methylation Array Analysis Identified Profiles of Blood-derived DNA Methylation Associated with Bladder Cancer*. | AACR, Future of Molecular Epidemiology Meeting | Miami, FL |
| 2012 | *Placental Epigenetics and Infant Neurobehavior* | Children’s Environmental Health Network Meeting | San Francisco, CA |
| 2013 | *Epigenome-wide Association Studies in Cancer (Workshop Chair/Presenter)* | AACR Annual Meeting | Washington, DC |
| 2014 | *Epigenetic Effects of Early Life Environmental Exposures: Placental DNA Methylation Related to Both Infant Toenail Mercury and Adverse Neurobehavioral Outcomes (Symposium Chair/Presenter)* | International Society for Environmental Epidemiology Annual Meeting | Seattle, WA |
| 2019 | *Using Genomic Approaches to Examine the Role of the Placenta in the Developmental Origins of Health and Disease (Symposium Chair)* | Pediatric Academic Societies Annual Meeting | Baltimore, MD |

**INVITED PRESENTATIONS**

**International location:**

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| --- | --- | --- | --- |
| **DATE** | **TOPIC/TITLE** | **ORGANIZATION** | **LOCATION** |
| 2006 | *Epigenetic Alterations in Exposure-related Disease* | Centre for Research in Environmental Epidemiology (CREAL) | Barcelona, Spain |
| 2014 | *Epigenomics and the Natural Environment* | Experimental Biology: Epigenetics in Comparative Physiology | Banff, Canada |
| 2016 | *Epigenetics and Environmental Origins of Cancer* | International Agency for Research on Cancer | Lyon, France |
| 2018 | *Importance of the Placenta in Children’s Environmental Health* | University of British Columbia, Children’s Hospital | Vancouver, Canada |
| 2018 | *Epigenetics Influences on Child Health* | Pediatric Academic Societies Annual Meeting 2018 | Toronto, Ontario, Canada |

**National location:**

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| **DATE** | **TOPIC/TITLE** | **ORGANIZATION** | **LOCATION** |
| 2005 | *SFRP Gene Methylation and p53 Alteration in Bladder Cancer* | Diller Comprehensive Cancer Center University California – San Francisco | San Francisco, CA |
| 2008 | *Survival Skills for Effective Leaders* | Lafayette Leadership Institute, Lafayette College | Easton, PA |
| 2008 | *Epigenetics in Environmental Health* | Boston University School of Public Health | Boston, MA |
| 2008 | *Epigenetics in Toxicology and Cancer Biology* | Nutmeg Conference, Marine Biological Laboratories | Woods Hole, MA |
| 2009 | *Clinical and Etiological Significance of Epigenetic Profiles in Bladder Cancer* | Cancer Center Seminar Series, Masonic Cancer Center, University of Minnesota | Minneapolis, MN |
| 2009 | *Clinical and Etiological Significance of Epigenetic Profiles in Bladder Cancer.* | Flight Attendants Medical Research Institute 8th Annual Symposium | Boston, MA |
| 2009 | *Epigenetics and Imprinting in the Placenta* | American Society of Reproductive Immunology Annual Conference | Orlando, FL |
| 2009 | *MicroRNA Alterations in Malignant Pleural Mesothelioma as Biomarkers of Disease* | Mesothelioma Applied Research Foundation Symposium | Washington, D.C. |
| 2009 | *Placenta Epigenetics – Clinical and Environmental Implications* | Mt. Sinai School of Medicine | New York, NY |
| 2010 | *Epigenetics in Development and Beyond* | Pediatric HIV/AIDS Cohort Study Annual Meeting, Plenary Session | Baltimore, MD |
| 2010 | *Alterations of DNA Methylation Associated with Growth Restriction and Infant Neurobehavior* | Behavioral Epigenetic Symposium, New York Academy of Sciences | Boston, MA |
| 2010 | *DNA methylation array analysis identifies profiles of blood-derived DNA methylation associated with bladder cancer* | International Bladder Cancer Consortium Annual Meeting | Houston, TX |
| 2011 | *Practical How-to and Pitfalls Associated with Current Epigenetic Studies: Population-based DNA Methylation Profiling in Exposure-Related Disease.* | Society of Toxicology Annual Meeting, Continuing Education Course | Washington, DC |
| 2012 | *MicroRNAs in Biology and Toxicology: MicroRNA Profiling in Population-Based Studies of Exposure-Related Health Outcomes* | Society of Toxicology Annual Meeting, Continuing Education Course | San Francisco, CA |
| 2012 | *Exposure Biology and DNA Methylation* | Society for Gynecological Investigation Annual Meeting, Symposium | San Diego, CA |
| 2012 | *A Role for in-utero Arsenic Exposure in Epigenetic Alterations Associated with Infant Health Outcomes* | NIEHS/SBRP Special Meeting: Epigenetic Actions of Environmental Arsenicals | Tucson, AZ |
| 2012 | *Role of miRNA in regulating placental function and fetal growth* | 2012 Alltech Distinguished Lecture Series in Nutrigenomics at the University of Kentucky | Lexington, KY |
| 2013 | *Placental miRNA as Biomarkers of Exposure and Outcome* | Duke University Epigenomic Toxicology Symposium | Durham, NC |
| 2013 | *Placental Biomarkers of Exposure and Outcome* | EPA/NIEHS Children’s Centers Webinar Series | Nationally Broadcast Webinar |
| 2013 | *Epigenetic Mechanisms Linking Environment to Developmental Outcomes* | NIEHS Superfund Research Program Annual Meeting | Baton Rouge, LA |
| 2013 | *Epigenetic Mechanisms Linking Environment to Newborn Developmental Outcomes* | Icahn School of Medicine at Mt. Sinai, Child Health Research Seminars | New York, NY |
| 2014 | *Developmental Effects of Arsenic* | NIEHS Workshop “Health effects and mitigation of arsenic: current research efforts and future directions” | Durham, NC |
| 2014 | *Early life and epigenetics/response and impact on immune system* | EPA/NIEHS Children’s Centers Webinar Series | Nationally Broadcast Webinar |
| 2014 | *Epigenetics in Infant Cohort Studies* | Pediatric HIV/AIDS Cohort Studies Annual Network Meeting | Baltimore, MD |
| 2014 | *Placental Epigenetic Mechanisms* | Prenatal Programming and Toxicity (PPTOX IV): Environmental Stressors in Disease and Implications for Human Health | Boston, MA |
| 2015 | *Placental Toxicants and Disruption to Development* | Fertility & Reproductive Health Working Group of the Collaborative on Health and the Environment | National Teleconference |
| 2015 | *Environmental Epigenetics* | EPA/NIEHS Children’s Centers Webinar Series | Nationally Broadcast Webinar |
| 2015 | *Role of the Placenta* | EPA/NIEHS Children’s Centers Webinar Series | Nationally Broadcast Webinar |
| 2015 | *Epigenetic mediators of the environment and children’s health* | University of Kentucky Superfund Program Seminar | Lexington, KY |
| 2015 | *Considerations in Study and Experimental Design in Epigenetic Epidemiology* | Society for Epidemiologic Research Annual Meeting, Contributed Symposium | Denver, CO |
| 2015 | *Placental Epigenetics in Children’s Environmental Health* | University of Southern California, Division of Environmental Health | Los Angeles, CA |
| 2015 | *Readily Measurable Epigenetic Marks and Significance* | US EPA, Workgroup on Considering Epigenetic Mechanisms in Risk Assessment | Washington, DC |
| 2015 | *Epigenetic Mechanisms in Children’s Environmental Health* | Emory University, Rollins School of Public Health, Environmental Health Seminar | Atlanta, GA |
| 2015 | *Epigenetic mechanisms linking the maternal environment to lifelong health* | Gerontological Society of America Annual Meeting: Womb to Tomb, aging as a life long process | Orlando, FL |
| 2016 | *Technologies and informatics in epigenetic profiling and assessments* | Toxicology Risk Assessment Conference (TRAC) jointly hosted by multiple federal agencies including US EPA, NIOSH, and DOD | Cincinatti, Oh |
| 2016 | *Considering the Placenta in Birth Cohort Studies* | Pediatric HIV/AIDS Cohort Studies Annual Meeting | Bethesda, MD |
| 2016 | *Understanding Biological Mechanisms Related to Environmental Justice* | Emerging Science for Environmental Health Decisions, National Academies of Science and Medicine | Washington, DC |
| 2016 | *Epigenomic Effects of the Environment on Human Development and Carcinogenesis* | Society of Toxicology Meeting on Toxicoepigenetics | Washington, DC |
| 2016 | *Placental Epigenetics in Children’s Environmental Health* | Dept. of Preventative Medicine Grand Rounds, Icahn School of Medicine at Mt. Sinai | New York, NY |
| 2016 | *Placental Epigenetics in Children’s Environmental Health* | Environmental Health Center Seminar Series, Columbia University | New York, NY |
| 2017 | *Epigenetic Mechanisms in Children’s Environmental Health* | Center for Environmental Health and Technology Seminar, Brown University | Providence, RI |
| 2017 | *Epigenetic Effects of the Antenatal Environment* | Pediatric Academic Societies Annual Meeting 2017 | San Francisco, CA |
| 2017 | *Importance of the Placenta in the Developmental Origins of Health and Disease* | Invited Seminar, National Institute of Environmental Health Sciences | Durham, NC |
| 2018 | *Molecular Mechanisms Linking the Environment to Human Health* | Kick-off Seminar of the Environmental Health Seminar Series at Boston University School of Public Health | Boston, MA |
| 2018 | *Environmental Epigenetics and Mendelian Randomization (Session Chair)* | ECHO Genetics and Epigenetics Workshop at NIH | Bethesda, MD |
| 2018 | *Epigenomic Effects of Cadmium on the Placenta Influence Newborn and Early Childhood Growth* | Society of Toxicology Annual Meeting 2018 | San Antonio, TX |
| 2018 | *Molecular Mechanisms Linking the Environment and Human Health* | Department of Epidemiology Seminar Series, Brown University School of Public Health | Providence, RI |
| 2018 | *Impacts of the Intrauterine Environment on Newborn Health* | Grand Rounds, Lurie Children’s Hospital, Northwestern University | Chicago, IL |
| 2018 | *A Basic Scientists Perspective on Transforming Translational Research in Preterm Birth* | Preterm Birth International Collaborative (PREBIC) North American Branch | Galveston, TX |
| 2019 | *Placental Functional Genomics and Newborn Neurobehavioral Performance* | Society for Research in Child Development Annual Meeting | Baltimore, MD |
| 2019 | *Using the Exposome to Advance our Understanding of Human Health* | Northeast Regional Superfund Research Program Meeting | Boston, MA |
| 2019 | *Considering the Placenta in Children’s Environmental Health* | University of Cincinnati Center for Environmental Genetics Seminar Series | Cincinnati, OH |
| 2019 | *Considering the Placenta in Children’s Environmental Health* | University of Pennsylvania Center for Research on Reproduction and Women’s Health | Philadelphia, PA |
| 2020 | *Using Functional Placental Genomics to Understand the Environment’s Impact on Children’s Health* | University of Illinois- Chicago, University of Chicago Environmental Health Center Seminar | Chicago, IL |
| 2020 | *Using Placental Genomics to Understand the Environmental and Genetic Determinants of Children’s Health* | University of Kentucky, UK-CARES Environmental Health Seminar | Lexington, KY (via Zoom) |
| 2020 | *Using Placenta to Understand the Developmental Impacts of Metals* | Columbia/UC Berkeley Superfund Research Programs Joint Conference on Metals and Epigenetics | Zoom |

**Regional/local location:**

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| **DATE** | **TOPIC/TITLE** | **ORGANIZATION** | **LOCATION** |
| 2005 | *A Case-only Approach to Understanding the Mechanisms Involved in Bladder Cancer* | Dartmouth Medical School | Lebanon, NH |
| 2006 | *Epigenetic Alterations in Environmental Pathology* | Pathology Research and Teaching Rounds, Department of Pathology and Laboratory Medicine, Brown University | Providence, RI |
| 2007 | *Epigenetics in Cancer Biology and Toxicology* | Pathobiology Seminar Series, Program in Pathobiology, Brown University | Providence, RI |
| 2007 | *Epigenetics in Cancer Biology and Toxicology* | Pediatrics Research Colloquium, Women and Infants Hospital | Providence, RI |
| 2007 | *Epigenetics in Cancer Biology and Toxicology* | COBRE Center for Cancer Research Development Seminar, Rhode Island Hospital | Providence, RI |
| 2007 | *Epigenetics in Cancer Biology and Toxicology* | Pathology Grand Rounds, Rhode Island Hospital | Providence, RI |
| 2008 | *Epigenetics, Exposures, and Fetal Programming* | Pediatric Research Colloquium, Women and Infants Hospital | Providence, RI |
| 2009 | *Clinical and Etiological Significance of Epigenetic Profiles in Bladder Cancer* | Clinical Epidemiology Seminar, Dartmouth Medical School | Lebanon, NH |
| 2009 | *Beyond the Barker Hypothesis: Lifespan Implications of the Intrauterine Environment* | Office of Women’s Health, NIH, The Warren Alpert Medical School of Brown University, and Women and Infants Hospital, Moving into the Future: New Dimensions and Strategies for Women’s Health Research for the NIH | Providence, RI |
| 2009 | *Clinical Importance of Epigenetic Profiles in Bladder Cancer* | Grand Rounds, Rhode Island Hospital, Department of Oncology | Providence, RI |
| 2009 | *Clinical Importance of Epigenetic Profiles in Bladder Cancer* | Program in Epidemiology Seminar Series, Department of Community Health, Brown University | Providence, RI |
| 2010 | *Placental Epigenetic Alterations as Markers of the Intrauterine Environment* | Children’s Environmental Heath and Disease Research Center at Dartmouth | Lebanon, NH |
| 2010 | *Epigenetics in Development and Beyond* | Brown Center for Children at Risk Journal Club, Women and Infants Hospital | Providence, RI |
| 2010 | *Beyond the Barker Hypothesis: Lifespan Implications of the Intrauterine Environment* | Department of Pediatrics, Hasbro Children’s Hospital, Grand Rounds | Providence, RI |
| 2012 | *Epigenetic Epidemiology of Bladder Cancer* | Norris Cotton Cancer Center, Dartmouth Medical School, Grand Rounds | Lebanon, NH |
| 2012 | *Epigenetics in Human Health and Disease* | Medical Genetics Seminar Series, Department of Pediatrics, Dartmouth-Hitchcock Medical Center | Lebanon, NH |
| 2012 | *Placental Epigenetics as Markers of the Intrauterine Environment* | COBRE Center for Perinatal Biology, NIH Site Visit, Women and Infants Hospital | Providence, RI |
| 2013 | *Children’s Environmental Health* | Grand Rounds, Department of Pediatrics, Geisel School of Medicine at Dartmouth | Lebanon, NH |
| 2014 | *Epigenetic Mechanisms Linking Environment to Newborn Outcomes* | Department of Epidemiology, Brown University School of Public Health | Providence, RI |
| 2014 | *Role for Placental Epigenetics in Newborn Neurobehavioral Development* | Grand Rounds, Department of Psychiatry, Geisel School of Medicine at Dartmouth | Lebanon, NH |
| 2015 | *Role of Placental Epigenetics in Predictive Newborn Outcomes* | Pediatrics Research Colloquium, Women and Infants Hospital | Providence, RI |
| 2016 | *Importance of the Placenta in Children’s Environmental Health* | C-CHEM2 Seminar Series, Emory University, Woodruff School of Nursing | Atlanta, GA |
| 2016 | *Importance of the Placenta in Children’s Environmental Health* | Grand Rounds, Dept. of Obstetrics and Gynecology, Emory University School of Medicine | Atlanta, GA |
| 2017 | *Molecular Mechanisms Linking the Environment and Human Health* | Grand Rounds, Rollins School of Public Health, Emory University | Atlanta, GA |
| 2019 | *Embracing Trans-disciplinary Approaches to Impact Biomedical Research in Public Health* | Seminar, Rollins School of Public Health, Emory University | Atlanta, GA |
| 2019 | *Placental Genomics to Understand Children’s Health* | Genetics and Molecular Biology Seminar, Emory School of Medicine | Atlanta, GA |
| 2019 | *The Exposome as a Framework for Environmental Health* | Georgia Environmental Conference | Jekyll Island, GA |

**RESEARCH FUNDING**

**Current:**

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| --- | --- | --- | --- | --- |
| **DATES** | **PROJECT TITLE/NUMBER** | **ROLE/**  **%EFFORT** | **SPONSOR** | **ANNUAL DIRECT COSTS** |
| 04/01/2017-03/31/2022 | P30ES019776 HERCULES: Health and Exposome Research Center at Emory | PI  15% Effort | NIH-NIEHS | $1,000,000 |
| 6/01/2016-09/31/2020 | R01 ES025145-01A1  Investigating MicroRNA, Environmental Exposures and Newborn Outcomes | PI  20% Effort  (Devin Koestler, Kansas University Medical Center, mPI) | NIH/NIEHS | $446,000 |
| 04/01/2018-03/30/2023 | R01ES029212 Placental Functional Networks Linking Developmental Pesticide Exposure and Offspring Neurodevelopment | mPI  15% Effort  (Jia Chen, Ke Hao, Mount Sinai; Michael Caudle, Emory, mPIs) | NIH-NIEHS | $400,000 |
| 7/27/2017-2/28/2022 | R01MD011698 Influence of prenatal psychosocial stressors on maternal and fetal circulating miRNAs | PI  15% Effort  (Carrie Breton, University of Southern California, mPI) | NIH-NIMHD | $495,000 |
| 09/30/2017-06/30/2022 | R24ES028507 Enriching the Rhode Island Child Health Study | mPI  10% Effort  (Laura Stroud, Miriam Hospital, mPI) | NIH-NIEHS | $250,000 |
| 09/01/2016-08/31/2023 | UH3OD023347  ECHO  Environmental Influences on Neurodevelopmental Outcome in Infant Born Very Preterm | PI  15% Effort  (Barry Lester, Brown Center for Children, mPI) | NIH | $2,870,000 |
| 07/01/2004-06/31/2024 | T32ES012870 Training Program in the Environmental Health Sciences and Toxicology | PI  5% Effort | NIH-NIEHS | $500,000 |
| 07/01/2019-06/30/2024 | 1D43ES030927-01  Emory-Georgia Clean Air Research & Education (CARE) Program | mPI  5% Effort  (Carla Berg, GWU, mPI) | NIH-NIEHS/Fogarty | $230,000 |
| 08/01/2019-07/31/2022 | R01DA044504  Prenatal Marijuana: Impact on Infant Neurobehavior, Stress, & Epigenetic Mechanisms | Co-I  5% Effort  (Laura Stroud, Miriam Hospital, PI) | NIH-NIDA | $185,000 |
| 08/01/16-06/30/24 | R01HD084515  Epigenetic Markers, Trajectories and Predictors of Neurodevelopment in Childhood among Infants Born Very Preterm | Co-I  5% Effort  (Todd Everson, Emory University, Barry Lester, Women and Infants Hospital, mPI) | NIH-NICHD | $495,000 |

**Past:**

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| **DATES** | **PROJECT TITLE/NUMBER** | **ROLE/**  **%EFFORT** | **SPONSOR** | **ANNUAL DIRECT COSTS** |
| 04/01/05-03/31/06 | P50 CA093683 Patterns of Epigenetic Inactivation in Non-Melanoma Skin Cancer | Co- I  25% Effort  (PI-Heather Nelson, PhD) | NIH/NCI Harvard Skin Spore Development Project | $50,000 |
| 07/01/06-06/30/11 | YCSA 052341  Role of SHS on Somatic Alterations in Bladder Cancer | PI  30% Effort | Flight Attendants Medical Research Institute Young Clinical Scientist | $100,000 |
| 09/01/07-02/28/12 | R01 CA121147 The Molecular Epidemiology of Bladder Cancer | Co-I  10% Effort  (PI- Karl Kelsey, MD, MOH, Brown University) | NIH/NCI | $250,000 |
| 01/01/08-04/04/08 | P20RR016457 RI-INBRE Pilot Project: Profile of miRNA expression alterations by endocrine disrupting toxicants | Pilot Project PI 5% Effort | NIH/NCRR University of Rhode Island Subaward RI-INBRE for Molecular Toxicology | $15,000 |
| 01/01/08-12/31/08 | 0548311  ADVANCE Career Development Award: Creating Opportunities for Collaboration and Scientific Discussion | Development Award PI  No Effort | NSF-HRD ADVANCE Institutional Transformation Award | $13,000 |
| 01/01/08-12/31/09 | Array Based miRNA Expression and Methylation Profiling  of Normal and Tumorigenic Pleural Mesothelium | PI  10% Effort | Mesothelioma Applied Research Foundation (MARF) | $50,000 |
| 08/15/08-07/31/11 | P20 RR018728 COBRE for Perinatal Biology: Epigenetic alterations as markers of the intrauterine environment | Project 4 PI  33% Effort | NIH/NCRR Women and Infants Hospital Subcontract | $160,000 Project Direct Costs |
| 02/15/09-02/15/10 | Epigenetic Effect of Oxygen Tension During Embryo Culture  In Assisted Reproduction | PI  No effort  (mPI, Jared Robbins, MD) | Rhode Island Foundation Medical Research Grant | $15,000 |
| 04/01/09-08/31/11 | P42 ES013660 Superfund Research Program: Environment, Genetics and Epigenetics in a R.I. Birth Cohort | Project 8 PI  20% Effort | NIH/NIEHS | $185,000 Project Direct Costs |
| 04/01/09-08/31/11 | R01 CA100679 Patterns of Somatic Gene Alterations in Oral Cancer | CO-I  5% Effort  (PI – Karl Kelsey, MD, MOH, Brown University) | NIH/NCI | $250,000 |
| 09/01/09-08/31/11 | P42 ES013660 Superfund Research Program: Environment, Genetics and Epigenetics in a R.I. Birth Cohort | Project 8 PI  5% Effort | NIH/NIEHS  (ARRA Supplement) | $75,000 |
| 07/01/10-08/31/11 | HHSN267200700032C National Children’s Study – Pilot Project 8: Examination of miRNA in Placenta Samples | Pilot Project PI 20% Effort | NIH/NICHD | $104,000 |
| 04/08/2011-03/31/2013 | R21 MH091508 Childhood Maltreatment: Epigenetic Modulation of the Glucocorticoid Receptor | Co-I  10% Effort | NIH/NIMH Butler Hospital Subcontract | $32,200 |
| 01/01/2013-12/31/2013 | Hopeman Award  Identification of Accessible Biomarkers of Bladder Cancer  Treatment Response, Recurrence, and Progression | PI | Norris Cotton Cancer Center | $100,000 |
| 3/19/2013-1/31/2015 | R01ES019202-03S1  Urinary Cadmium and risk of breast cancer  VICTER Supplement | Subcontract PI  5% Effort  (PI-Jaymie Meliker, PhD, SUNY Stonybrook) | NIH/NIEHS  SUNY Stonybrook Subcontract | $100,000  subcontract |
| 4/1/2013-3/31/2018 | P20 GM104416 COBRE Center for Molecular Epidemiology: Biorepository Core | Core Co-Director  Mentor  5% Effort  (PI- Margaret Karagas, PhD Dartmouth) | NIH/NIGMS | $1,400,000 |
| 08/15/2011-04/30/2016 | R01 DA031188 Maternal Smoking: HPA and Epigenetic Pathways in Infant Neurobehavioral Deficits | Subcontract PI  5% Effort  (PI-Laura Stroud, PhD, Miriam Hospital) | NIH/NIDA Miriam Hospital Subcontract | $50,000  subcontract |
| 2/1/2015-5/31/2016 | Burroughs Wellcome Institutional Program Unifying Population and Laboratory Sciences: Big Data in the Life Sciences Training Program | PI  10% Effort  (Michael Whitfield, mPI) | Burroughs Wellcome Foundation | $500,000 |
| 09/01/2011-06/30/2017 | R01 MH094609 Epigenetics in Neurodevelopment and Mental Health | PI  30% Effort | NIH/NIMH | $400,000 |
| 07/01/2016-06/30/2018 | R01HD084515  Epigenetic Predictors of Impairment in Very Preterm Infants | PI  5% Effort  (Barry Lester, Women and Infants, mPI) | NIH-NICHD | $200,000 |
| 6/1/2013-5/31/2018 | P01 ES022832 Children’s Environmental Health and Disease Prevention Center  Project 3: Placental Biomarkers of Exposure and Outcome | Project PI  20% Effort | NIH/NIEHS | $1,000,000 |
| 9/1/2013-4/30/2019 | R01 ES022223 Environment, Imprinting, and Neurodevelopment | PI  20% Effort  (Jia Chen, Mt. Sinai, mPI) | NIH/NIEHS | $500,000 |
| 7/10/2015-04/30/2016 | R01 ES022223- 03S1  Environment, Imprinting, and Neurodevelopment – Supplement | PI  (Jia Chen, Mt. Sinai, mPI) | NIH/NIEHS | $441,147 |
| 07/01/2017-06/30/2019 | R21ES028226 Environmental influences and function of cytosine modification in human placenta | PI  10% Effort | NIH-NIEHS | $150,000 |
| 8/1/2015-7/31/2020 | U01 HD052104  Coordinating Center for the Pediatric HIV/AIDS Cohort Study | Subcontract PI  5% Effort  (PI-Russell Van Dyke, MD, Tulane University) | NIH/NICHD Tulane University Subcontract | $12,000 subcontract |

**Pending:**

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| **DATES** | **PROJECT TITLE/NUMBER** | **ROLE/%EFFORT** | **SPONSOR** | **ANNUAL DIRECT COSTS** |
| 04/01/2021-03/31/2026 | R01 ES031031 A1  Using Placental Genomics to Understand the Developmental Origins of Children’s Health | mPI  15% Effort | NIH-NICHD/NIEHS | $500,000 |
| 04/01/2021-03/31/2026 | R01DA050924 A1 Electronic Cigarettes in Pregnancy: Harnessing Placental Functional Genomcis to Understand Consequences | mPI, 15% Effort | NIH-NIDA | $500,000 |
| 09/01/2020-08/31/20225 | R01DA053108  Placental Genomics as a Window to the Developmental Consequences of Marijuana Use in Pregnancy | mPI, 15% Effort | NIH-NIDA | $500,000 |

**TEACHING ACTIVITIES**

**Undergraduate (College) Education:**

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| **DATES** | **INSTITUTION** | **NAME OF COURSE/ACTIVITY** | **ROLE** | **FREQUENCY** | **HOURS** |
| 2007-2011 | Brown University | BIOL 182: Environmental Health and Disease | Lecturer | Yearly | 3 |
| 2017 | Emory University | BIO 352: Epigenetics and Human Disease | Lecturer | Yearly | 2 |

**Graduate Education:**

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| **DATES** | **INSTITUTION** | **NAME OF COURSE/ACTIVITY** | **ROLE** | **FREQUENCY** | **HOURS** |
| 2006 | Harvard School of Public Health | ID518: Integrated Cancer Biology | Co-course Leader | Once | 40 |
| 2007-2009 | Brown University | BIOL 285: Introduction to Faculty Research | Lecturer | Yearly | 1.5 |
| 2007-2010 | Brown University | BIOL 286: Molecular Mechanisms of Human Disease | Course Leader | Yearly | 30 |
| 2010 | Brown University | BIOL 2840H: Reproductive Biology and Toxicants | Lecturer | Once | 1.5 |
| 2011-present | Geisel School of Medicine | GENE 110: Integrative Biomedical Sciences | Lecturer | Yearly | 1 |
| 2012-present | Geisel School of Medicine | PEMM 103: Biostatistics | Course Co-Leader | Yearly | 24 |
| 2013 | Geisel School of Medicine | PEMM 123: Graduate Toxicology | Lecturer | Once | 2 |
| 2013-2014 | Geisel School of Medicine | QBS 131: Foundations of Molecular Epidemiology | Lecturer | Once | 2 |
| 2014 | Geisel School of Medicine | GEN 146: Foundations of Bioinformatics | Lecturer | Twice | 4 |
| 2015 | Geisel School of Medicine | QBS 100: Human Biology for Population Research | Course Developer & Leader | Twice | 40 |
| 2016-present | Emory University Rollins School of Public Health | EH 520: Human Toxicology | Lecturer | Yearly | 2 |
| 2017 | Emory University Rollins School of Public Health | EH 501 | Lecturer | Yearly | 1 |
| 2017 | Emory University Rollins School of Public Health | EH 790: Research Design | Lecturer | Yearly | 2 |
| 2017 | Emory University Rollins School of Public Health | EPI 510: Intro to Genetic and Molecular Epidemiology | Lecturer | Yearly | 1 |
| 2017 | Emory University Dept of Biology | Bio 352: Epigenetics in Human Disease | Lecturer | Yearly | 1 |
| 2018 | Emory University Rollins School of Public Health | EH 590R\_4: Omics in Public Health | Course Developer and Leader | Semi-Annual | 20 |
| 2018-2020 | Emory University Rollins School of Public Health | EH 790R: Research Design | Course Co-Leader | Yearly | 40 |

**Graduate Medical Education:**

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| **DATES** | **INSTITUTION** | **NAME OF COURSE/ACTIVITY** | **ROLE** | **FREQUENCY** | **HOURS** |
| 2008 | Brown University | Obstetric Resident Core Curriculum | Lecturer | Once | 2 |
| 2014 | Dartmouth Hitchcock Medical Center | Pathology Residents Research Seminar | Lecturer | Once | 1 |

**Continuing Medical Education:**

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| **DATES** | **NAME OF COURSE/ACTIVITY** | **ROLE** | **FREQUENCY** | **HOURS** |
| **2012** | Synergy Translational Research Certificate Course | Small Group Leader | 1 week | 12 |
| **2014** | Synergy Translational Research Certificate Course | Panel Discussant and Mentor | 1 week | 12 |

**SUPERVISORY TEACHING/MENTORING**

**Undergraduate Students:**

**Thesis Committee Chair**

|  |  |  |
| --- | --- | --- |
| **Dates** | **Student Name** | **Program/ Current Position** |
| 2007-2008 | Keila Veiga | Human Biology Concentration, Brown University  *Current Position: Pediatric Fellow, Mt. Sinai Kravis Children’s Hospital* |
| 2007-2008 | Stuart Schussel | Environmental Studies Concentration, Brown University  *Current Position: Corporate Counsel, Darktrace* |
| 2008-2009 | Kristen Uhl | Human Biology Concentration, Brown University  *Current Position: Clinical Psychologist, Dana Farber Cancer Institute* |
| 2008-2009 | Erika Moen | Human Biology Concentration, Brown University  *Current Position: Assistant Professor, Geisel School of Medicine at Dartmouth* |
| 2009-2011 | Amanda Filiberto | Human Biology Concentration, Brown University  *Current Position: Attending Surgeon, University of Florida Medical Center* |
| 2010-2011 | Cailey Bromer | Neuroscience Concentration, Brown University  *Current Position: Associate Consultant, ZS* |

**Mentored Research Supervision (Undergraduate):**

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| **Dates** | **Student Name** | **Institution/Program** |
| 2012-2013 | Ashlee Roberson | Dartmouth College, Undergraduate Research Assistant |
| 2012-2014 | Lauren Kwan | Dartmouth College, Undergraduate Research Assistant |
| 2013-2014 | Roshen John | Dartmouth College, Howard Hughes Medical Research Institute Junior Research Scholar |
| 2013-present | Daniel Gorman | Dartmouth College, Undergraduate Research Assistant |
| 2015 | Bailey Blair | Franklin Pierce University, INBRE Summer Undergraduate Research Fellow (ISURF) |

**Masters Students:**

**Dissertation Committee Chair**

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| **Dates** | **Student Name** | **Program/ Current Position** |
| 2016-17 | Carmen Marable | M.P.H. Environmental Health, Rollins School of Public Health, Emory University |
| 2016-17 | Natalie Duke | M.P.H. Environmental Health, Rollins School of Public Health, Emory University |
| 2017-18 | Michael Hussey | M.S.P.H. Environmental Health-Epidemiology, Rollins School of Public Health, Emory University |
| 2017-18 | Luisa Sarmiento | M.P.H. Environmental Health, Rollins School of Public Health, Emory University |
| 2018-19 | Sarah Menz | M.S.P.H. Environmental Health and Epidemiology, Rollins School of Public Health, Emory University |
| 2019-2020 | Alexandra Skoczek | M.S.P.H. Environmental Health and Epidemiology, Rollins School of Public Health, Emory University |
| 2019-2020 | Ernesto Rodriguez | M.S.P.H. Environmental Health and Epidemiology, Rollins School of Public Health, Emory University |
| 2020- | Meredith Stark | B.S./M.P.H. Environmental Health, Rollins School of Public Health, Emory University |

**Masters Thesis Committees:**

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| **Dates** | **Student Name** | **Program/ Current Position** |
| 2008 | Rachel (Rogers) Worley, M.Sc. | Environmental Studies Program, Brown University  *Current Position: Environmental Scientist, CDC/ATSDR* |
| 2010 | Kathryn Ponder, M.D., M.M.S. | Masters of Medical Science Program, Brown University  *Current Position: Attending Neonatologist, Oakland, CA* |

**Doctoral Students:**

**Dissertation Advisor**

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| **Dates** | **Student Name** | **Program/ Current Position** |
| 2007-2009 | Michele Avissar-Whiting, Ph.D. | Pathobiology Graduate Program, Brown University  *Current Position: Operations Director, R&D at Research Square* |
| 2008-2011 | Matthew Maccani, Ph.D. | Pathobiology Graduate Program, Brown University  *Current Position: Technology Consultant* |
| 2009-2011 | Charlotte Wilhelm-Benartzi, Ph.D. | Epidemiology Graduate Program, Brown University  *Current Position: Research Fellow, Cardiff University* |
| 2011-2014 | Corina Lesseur, MD, PhD | Program in Experimental Molecular Medicine, Geisel School of Medicine at Dartmouth  *Current Position: Postdoctoral Fellow,* Mt. Sinai School of Medicine |
| 2012-2015 | Alison Paquette, PhD | Program in Experimental Molecular Medicine, Geisel School of Medicine at Dartmouth  *Current Position: Assistant Professor, Seattle Children’s Hospital* |
| 2015-2017 | Jeffrey Thompson, PhD | Program in the Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth  *Current Position, Assistant Professor, University of Kansas Medical Center* |
| 2015-2018 | Julia Litzky, PhD | MD-PhD Student, Program in Experimental Molecular Medicine, Geisel School of Medicine at Dartmouth  *Current Position, Pediatrics Resident, Geisel School of Medicine at Dartmouth* |
| 2017-2019 | Aimee Vester | MD-PhD Student, Environmental Health Sciences Program, Laney Graduate School, Emory University  *Current Position, Medical Student, Emory School of Medicine* |
| 2017-present | Danielle Clarkson-Townsend | PhD Candidate, Environmental Health Sciences Program, Laney Graduate School, Emory University |
| 2019-present | Jesse Tehrani | PhD Candidate, Genetics and Molecular Biology Program, Laney Graduate School, Emory University |
| 2020-present | Millie Tung | PhD Candidate, Environmental Health Sciences Program, Laney Graduate School, Emory University |

**Dissertation Committees**

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| **Dates** | **Student Name** | **Program/ Current Position** |
| 2008-2011 | Graham Poage, Ph.D. | Program in Molecular Pharmacology and Physiology, Brown University  *Current Position: Medical Science Liaison Director, HalioDx* |
| 2009-2011 | Haley Menard, Ph.D. | Pathobiology Graduate Program, Brown University  *Current Position: Non-communicable Diseases Regional Epidemiologist, US Allied Pacific Islands at US Centers for Disease Control and Prevention* |
| 2010-2014 | Ashley Smith, PhD | Pathobiology Graduate Program, Brown University  *Current Position: Senior Academic Illustrator, American Journal Experts* |
| 2010-2013 | William Accomando, PhD | Pathobiology Graduate Program, Brown University  *Current Position: Biomedical Research Scientist, Tocagen, Inc, San Diego, CA* |
| 2011-14 | Robert Frost, PhD | Program in Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth  *Current Position: Assistant Professor, Geisel School of Medicine at Dartmouth* |
| 2011-2013 | Zeyn Joukhader, PhD | Pathobiology Graduate Program, Brown University  *Current Position: Writer* |
| 2012-2016 | Kevin Johnson, PhD | Program in Experimental Molecular Medicine, Geisel School of Medicine at Dartmouth  *Current Position: Post-doctoral Fellow, Jackson Laboratory* |

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| 2009-2011 | Nicholas Heger, Ph.D. | Pathobiology Graduate Program, Brown University  *Current Position: Director in Training, Clinical Chemistry Metabolic Laboratory, Tufts Medical Center* |
| 2009-2011 | Devin Koestler, Ph.D. | Biostatistics Graduate Program, Brown University  *Current Position: Associate Professor, University of Kansas Medical Center* |
| 2009-2011 | Caihua Liang, Ph.D. | Epidemiology Graduate Program, Brown University  *Current Position: Senior Epidemiologist*  *OptumInsight | Life Sciences* |
| 2015-2017 | Samantha Kingsley, Ph.D. | Epidemiology Graduate Program, Brown University  *Current Position: Postdoctoral Fellow, Brown University Center for Environmental Health and Technology (Joe Braun)* |
| 2016-2018 | Alexa Freedman, Ph.D. | Epidemiology PhD Program, Rollins School of Public Health  Co-Mentor, NIH F31 Fellowship Application  *Current Position: Postdoctoral Fellow, Northwestern University* |
| 2017-2019 | Sarah Curtis, Ph.D. | Genetics Program, Laney Graduate School, Emory University  *Current Position: Postdoctoral Fellow, Emory University* |
| 2017-2020 | Kirtan Kaur | Environmental Medicine, New York University  *Current Position: Postdoctoral Fellow, Mount Sinai School of Medicine* |
| 2018-2020 | Brittney Baumert | Environmental Health Sciences Program, Laney Graduate School, Emory University  *Current Position: Postdoctoral Fellow, University of Southern California* |
| 2018-present | Luisa Rivera | Anthropology Program, Laney Graduate School, Emory University |
| 2019-present | Millie Tung | Environmental Health Sciences Program, Laney Graduate School, Emory University |
| 2019-present | Jeliyah Clark | Biomedical Sciences Graduate Program, University of North Carolina-Chapel Hill |

**Other Graduate Student Mentoring**

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| --- | --- | --- |
| 2014 | Andres Cardenas, PH.D. | Co-Mentor, NIEHS KC Donnelly Visiting Fellow, PhD Program in Public Health, Oregon State University School of Public Health  *Current Position: Assistant Professor, Dept of Environmental Health, University of California-Berkeley* |

**Dissertation External Examiner**

|  |  |  |
| --- | --- | --- |
| 2008 | Anita Patel, Ph.D. | Biological Sciences in Public Health Program, Harvard University |
| 2013 | Boris Novakovic, Ph.D. | Melbourne School of Graduate Research, University of Melbourne, Australia |
| 2012 | Jessica LaRocca, Ph.D. | Pathobiology Graduate Program, Brown University |
| 2012 | Benjamin Moyer, Ph.D. | Pathobiology Graduate Program, Brown University |
| 2018 | Sumiya Islam, Ph.D. | University of British Columbia, Vancouver, Canada |

**Rotation Advisor**

|  |  |  |
| --- | --- | --- |
| 2008 | Sara Pacheco | Pathobiology Graduate Program, Brown University |
| 2009 | Ann Saunders | Pathobiology Graduate Program, Brown University |
| 2011-12 | Sondra Downey | Program in Experimental Molecular Medicine, Geisel School of Medicine at Dartmouth |
| 2013 | Anala Gossai | Program in the Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth |
| 2014 | Elizabeth Piette | Program in the Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth |
| 2015 | Jason Wells | Program in the Quantitative Biomedical Sciences, Geisel School of Medicine at Dartmouth |
| 2019 | Courtney Willett | Genetics and Molecular Biology Program, Laney Graduate School, Emory University |
| 2019 | Millie Tung | Environmental Health Sciences Graduate Program, Laney Graduate School, Emory University |

**Post-doctoral Fellows/Residents:**

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| --- | --- | --- | --- |
| **DATE** | **NAME OF STUDENT** | **ROLE** | **PROGRAM** |
| 2009-2011 | Carolyn Banister, Ph.D. | Post-doctoral Advisor | NIEHS Training Program in Environmental Pathology, Brown University  *Current Position: Assistant Professor, Research, University of South Carolina* |
| 2010-2011 | Michele Avissar-Whiting, Ph.D. | Post-doctoral Advisor | Warren Alpert School of Medicine at Brown University  *Current Position: Operations Director, R&D at Research Square* |
| 2012-2014 | Allison Appleton, Sc.D. | Post-doctoral Advisor | Training Program in the Quantitative Biomedical Sciences, Geisel School of Medicine  *Current Position: Associate Professor, Department of Epidemiology, University at Albany School of Public Health* |
| 2014-2016 | Benjamin Green, Ph.D. | Post-doctoral Advisor | Geisel School of Medicine at Dartmouth  *Senior Managed Health Programs Analyst, Blue-Cross Blue Shield of Vermont* |
| 2016-2018 | Todd Everson, Ph.D. | Post-doctoral Advisor | Rollins School of Public Health of Emory University  *Current Position: Assistant Professor, Environmental Health, Rollins School of Public Health, Emory University* |
| 2018-2020 | Fuying Tian, M.D. | Post-doctoral Advisor | Rollins School of Public Health of Emory University |
| 2018-present | Elizabeth Kennedy, Ph.D. | Post-doctoral Advisor | Rollins School of Public Health of Emory University |
| 2017-2019 | Sarah Faasse, MD | Research Fellowship Advisor | Pediatric Gastroenterology Fellowship Program, Emory University School of Medicine  *Current Position: Pediatric Gastroenterology Transplant Fellow, University of Pittsburg School of Medicine* |

**Other Postdoctoral Mentoring**

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| **DATE** | **NAME OF STUDENT** | **PROGRAM/ROLE** |
| 2010-2011 | Ayman Samkari, MD | Fellowship in Pediatric Hematology/Oncology, Rhode Island Hospital, Fellowship SOC Member |
| 2015 | Caterina Vacchi-Suzzi, Ph.D. | SUNY Stonybrook, Visiting Post-doctoral Scientist Advisor |
| 2018-present | Corina Lesseur, MD, PhD | K99/R00 Co-Mentor, Mount Sinai School of Medicine |
| 2019-present | Amelia Wesselink, PhD | K99/R00 Co-Mentor, Boston University School of Public Health |
| 2019-present | Jessica Shoaff, PhD | K99/R00 Co-Mentor, Harvard Chan School of Public Health |

**Faculty Mentoring**

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| **DATE** | **MENTEES NAME** | **SPECIALTY** | **PROGRAM** |
| 2013-2016 | Tracy Punshon, PhD, Assistant Professor, Dartmouth College, Department of Biological Sciences | Molecular Epidemiology/Placental Biomarkers | COBRE for Molecular Epidemiology, Dartmouth |
| 2014-present | Elizabeth Conradt, PhD, Assistant Professor, University of Utah, Department of Psychology | Behavioral Epigenetics | K08DA038959  The Epigenetic Basis for Stress Reactivity: Implications for Drug-exposed Infants |
| 2015-2017 | H. Rob Frost, Ph.D., Research Fellow, Geisel School of Medicine | Bioinformatics | COBRE in the Quantitative Biomedical Sciences, Dartmouth  Co-Mentor, K01 Application |
| 2016-2020 | Matthew Gribble, Ph.D., Assistant Professor, Environmental Health, Rollins School of Public Health | Environmental Health | Faculty Mentor, K01 Application  Research Mentoring |
| 2017-2020 | Michael Corley, Ph.D., Assistant Professor, Cell and Molecular Biology, University of Hawaii | Epigenetics in Diabetes | COBRE Center of Excellence in Diabetes Research, Mentor |
| 2017-2019 | Lauren McCullough, Ph.D., Assistant Professor, Epidemiology, Rollins School of Public Health | Epigenetics and Obesity | Faculty Mentor |
| 2018-present | Todd Everson, Ph.D., Assistant Professor, Environmental Health, Rollins School of Public Health | Molecular Epidemiology and Epigenetics | Faculty Mentor |
| 2018-present | Maya Deyssenroth, PhD, Assistant Professor, Environmental Health, Columbia University Mailman School of Public Health | Genomics | K99/R00 Mentor |
| 2019-present | Laren Narapareddy, PhD, RN, Assistant Professor, Nell Hodgson Woodruff School of Nursing, Emory University | Placental Research | KL2 Mentor |

**PROFESSIONAL SERVICE ACTIVITIES**

**Grant Peer Review Committees:**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2006-2010 | Epidemiology Review Panel | Grant Study Section Member | Flight Attendants Medical Research Institute |
| 2010 | Young Investigator Travel Award Selection Panel | Panel Member | International Bladder Cancer Consortium |
| 2011 | Special Emphasis Panel, Epigenomics of Neurodevelopment | Study Section Member | NIH/NIMH |
| 2012 | Special Emphasis Panel: Translational Research in Pediatric and Obstetric Pharmacology RFA | Study Section Member | NIH/NICHD |
| 2013 | NIH Director’s Transformative Research Initiative | Mail Reviewer | NIH/CSR |
| 2013 | Special Emphasis Panel: Member Conflict Obesity, Asthma, and Reproductive Epidemiology | Study Section Member | NIH/CSR |
| 2014 | Asthma, Allergy, Autoimmune and Sinusitis Panel | Study Section Member | Flight Attendants Medical Research Institute |
| 2014 | Special Emphasis Panel: Basic and Applied Biomedical Research on Minority Health and Health Disparities | Study Section Member | NIH/NIMHD |
| 2014-2016 | Special Emphasis Panel: Mechanistic Insights in Birth Cohorts | Ad hoc Member | NIH/CSR |
| 2014 | Kidney, Nephrology, Obesity and Diabetes Epidemiology Study Section | Ad Hoc Member | NIH/CSR |
| 2015 | Infectious, Reproductive, Asthma and Pulmonary Conditions Study Section | Ad Hoc Member | NIH/CSR |
| 2015 | NIAAA P60 Reverse Site Visit Committee | Ad Hoc Member | NIH/NIAAA |
| June 2016 | NIEHS Outstanding New Investigator in the Environmental Health Sciences (ONES) | Ad Hoc Member | NIH/NIEHS |
| July 2016 | U24 Applications, Molecular Transducers of Physical Activity Genomics, Epigenomics, and Transcriptomics Chemical Analysis Sites | Ad Hoc Member | NIH/CSR |
| Oct 2016-2020 | Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) | Standing Member | NIH/CSR |
| Feb 2018 | ECHO Opportunities and Infrastructure Pilot Awards | Ad Hoc Member | NIH/ECHO |
| March 2018 | PAR Panel: Social Epigenomics Research Focused on Minority Health and Health Disparities | Ad Hoc Member | NIH/CSR |
| November 2018 | RIVER Program Review Panel | Ad Hoc Member | NIH/NIEHS |
| November 2019 | NIEHS Board of Scientific Counselors Review of the | Ad Hoc Reviewer | NIH/NIEHS |
| November 2020 | RIVER Program Review Panel | Ad Hoc Member | NIH/NIEHS |

**National Committees/Workgroups:**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2011-present | Maternal Exposures Working Group | Working Group Member & Epigenetics Project Leader | Pediatric HIV/AIDS Cohort Study – Tulane & Harvard Universities |
| 2014-2017 | NIEHS/EPA Children’s Environmental Health Centers Epigenetics Working Group | Member | NIH/NIEHS, US EPA |
| 2017-present | NIEHS/EPA Children’s Environmental Health Centers Epigenetics Working Group | Chair | NIH/NIEHS, US EPA |
| 2016-present | NIH ECHO Steering Committee | Member | NIH |
| 2016-present | NIH ECHO Publications Committee | Associate Chair | NIH |
| 2016-present | NIH ECHO Biospecimens Working Group | Member | NIH |
| 2016-present | NIH ECHO Perinatal, Prenatal, Postnatal Working Group | Member | NIH |
| 2017-present | NIH ECHO Genetics and Epigenetics Working Group | Member, Epigenetics Lead | NIH |
| 2018 | NIH ECHO Genetics and Epigenetics Workshop | Invited Attendee | NIH |
| 2018-2019 | NIH ECHO Conflict of Interest Task Force | Chair | NIH |
| 2019-present | NIH ECHO Ancillary Studies Task Force | Member | NIH |
| 2020-present | NIEHS Environmental Health Sciences Vocabulary Effort | Advisor | NIH |

**Advisory Committees:**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2016-present | Environmental Health Disparities Research Center (MADRES) External Advisory Committee | Chair | University of Southern California |
| 2016-2018 | COBRE Center for Molecular Epidemiology External Advisory Committee | Member | Geisel School of Medicine at Dartmouth |
| 2017-present | Columbia University NIEHS P30 Center External Advisory Committee | Member | Columbia University |
| 2018-present | University of Kentucky Superfund Research Program External Advisory Committee | Member | University of Kentucky |

**Conference Committees:**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2009 | Epigenetics and Toxicology Session | Co-Chair | Superfund Research Program Annual Meeting, New York, NY |
| 2013 | Symposium: Prenatal Environment, Epigenetic Mechanisms and the Developmental Origins of Health and Disease | Chair | International Society for Environmental Epidemiology Annual Meeting |
| 2013 | Educational Session: New Approaches in Molecular Epidemiology | Chair | American Association for Research on Cancer Annual Meeting |
| 2015 | Symposium: Research Considerations in Epigenetic Epidemiology Studies | Session Chair | Society for Epidemiologic Research Annual Meeting |
| 2015 | NIEHS/EPA Children’s Environmental Health Centers, Pediatric Environmental Health Specialty Units Joint Meeting Planning Committee | Member | NIH/NIEHS, US EPA |
| 2016 | Central and Eastern European Conference on Health and the Environment | Session Chair | University of Kentucky SRP and Institute of Environmental Medicine, Czech Republic |
| 2016 | International Society for Environmental Epidemiology Annual Meeting | Poster Judge | International Society for Environmental Epidemiology, Rome, Italy |
| 2019 | NIEHS EHSCC Annual Meeting Planning Committee | Member | NIH |

**Institutional Committees:**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2007-2009 | Search Committee, Assistant/Associate Professor | Member | Brown University |
| 2008-2009 | Pathobiology Seminar Series | Chair | Brown University |
| 2008-2010 | Admissions Committee, Pathobiology Graduate Program | Chair and Member | Brown University |
| 2009-2011 | Search Committee, Staff Neonatologist/Open Rank | Member | Brown University/Women and Infants Hospital |
| 2010-2011 | Search Committee, Senior-rank Professor in Molecular Epidemiology | Member | Brown University |
| 2011 | Shared Resources Review | Member | Dartmouth Norris Cotton Cancer Center |
| 2011-201 | Dartmouth Children’s Environmental Health and Disease Prevention Center | Member | Geisel School of Medicine at Dartmouth |
| 2011-2016 | Internal Advising Committee, COBRE for Molecular Epidemiology | Member | Geisel School of Medicine at Dartmouth |
| 2012-2015 | Integrative Biology Committee | Member | Geisel School of Medicine at Dartmouth |
| 2013-2016 | Graduate Education Committee - PEMM | Member | Geisel School of Medicine at Dartmouth |
| 2013-2016 | Cancer Center Research Committee | Member/Program Director | Norris Cotton Cancer Center |
| 2014-2016 | Faculty Council | Pharmacology/Toxicology Representative | Geisel School of Medicine at Dartmouth |
| 2014-2015 | Synergy Research Design and Epidemiology Core Steering Committee | Member | Geisel School of Medicine at Dartmouth |
| 2015 | Integrated Biology Symposium | Chair, 8th Annual Symposium | Geisel School of Medicine at Dartmouth |
| 2015 | Search Committee for Assistant Professor in Epidemiology | Member | Geisel School of Medicine at Dartmouth |
| 2015 | QBS PhD Program Admissions Committee | Member | Geisel School of Medicine at Dartmouth |
| 2015 | Norris Cotton Cancer Center Space Utilization Committee | Member | Norris Cotton Comprehensive Cancer Center |
| 2015-present | QBS PhD Program Steering Committee | Member | Geisel School of Medicine at Dartmouth |
| 2016-2018 | Research Administration Task Force, Faculty Advisory Group | Member | Emory University |
| 2017-2018 | Research Administration Strategic Advisory Board | Member | Emory University |
| 2018-present | Search Committee, Gangarosa Department of Environmental Health | Member | Emory University, Rollins School of Public Health |
| 2019-2019 | Search Committee, Director of Biostatistics and Bioinformatics Core Resource | Member | Winship Cancer Institute, Emory University |
| 2020 | Search Committee, Gangarosa Chair of Department of Environmental Health | Member | Emory University, Rollins School of Public Health |
| 2020-present | Training and Education Steering Committee | Member | Winship Cancer Institute, Emory University |
| 2020-present | Appointment, Promotion, and Tenure Committee | Departmental Representative | Emory University, Rollins School of Public Health |

**EDITORIAL BOARDS**

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| **DATES** | **JOURNAL** | **ROLE** |
| 2008-present | Environmental Toxicology | Editorial Board Member |
| 2011-2013 | Frontiers in Toxicogenomics | Associate Editor |
| 2011-2014 | PLoS One | Associate Editor |
| 2014 | PLoS Genetics | Guest Associate Editor |
| 2014-15 | Child Development | Guest Associate Editor |
| 2015-2017 | Clinical Epigenetics | Section Editor, *Nutritional and Environmental Epigenetics* |
| 2015-present | Environmental Epigenetics | Editorial Review Board |
| 2015 | Child Development | Guest Editor, Special Issue on Behavioral Epigenetics |

**JOURNAL REFEREE ACTIVITY**

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| **DATES** | **JOURNAL NAME** |
| 2007-present | *The American Journal of Obstetrics and Gynecology*  *BMC Cancer*  *BMC Medical Genomics*  *Biological Psychiatry*  *British Journal of Cancer*  *Cancer*  *Cancer Epidemiology, Biomarkers, and Prevention*  *Cancer Research*  *Carcinogenesis*  *Clinical Cancer Research*  *Clinical Epigenetics*  *Environmental Health Perspectives*  *Environmental Toxicology*  *Epigenetics*  *Epigenomics*  *European Journal of Cancer*  *FASEB Journal*  *Genome Biology*  *Human Molecular Genetics*  *Human Reproduction*  *International Journal of Cancer*  *JAMA Psychiatry*  *JAMA Pediatrics*  *Journal of Clinical Endocrinology and Metabolism*  *Journal of Occupational and Environmental Medicine*  *Lancet Oncology*  *Molecular Carcinogenesis*  *New England Journal of Medicine*  *Neurotoxicology Research*  *Nucleic Acids Research*  *Placenta*  *PLoS Genetics*  *PLoS One*  *Psychoneuroendocrinology*  *Reproduction, Fertility, and Development*  *Reproductive Toxicology* |

**AWARDS AND HONORS**

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| **DATES** | **AWARD AND INSTITUTION** |
| 2000 | American Institute of Chemists Award, Lafayette College Department of Chemistry |
| 2000 | Phi Lambda Upsilon, Honors Society in Chemistry, Lafayette College |
| 2000-2004 | Pre-doctoral Training Fellowship in Radiobiology, National Institute of Environmental Health Sciences, Harvard School of Public Health |
| 2002 | Pathobiology of Cancer Fellowship, American Association for Cancer Research |
| 2004 | AACR-AFLAC Scholar in Training Award, American Association for Cancer Research |
| 2005 | AACR-AstraZeneca Scholar in Training Award, American Association for Cancer Research |
| 2010 | Featured in Science Magazine’s ScienceCareers website to coincide with their special issue on Epigenetics, Oct 29, 2010, 10.1126/science.caredit.a1000105 |
| 2011 | National Institute of Mental Health, Biobehavioral Research Award for Innovative New Scientists (BRAINS) |
| 2013 | Dartmouth-Hitchcock Norris Cotton Cancer Center Award for Excellence 2012 |
| 2020 | Emory University, *Millipub Club* |

**MEMBERSHIPS, OFFICE AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES**

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| **DATES** | **SOCIETY** | **ROLE** |
| 2004-present | American Association for Cancer Research | Member |
| 2011-2015 | Society of Toxicology | Member |
| 2011-present | American Association for the Advancement of Science | Member |
| 2014-present | International Society for Environmental Epidemiology | Member |
| 2014-present | International Society for Children’s Health and the Environment | Member |