

PERSONAL DATA

Dana C. Dolinoy (Professional)

Dana Dolinoy Cipolla (Full)

CURRENT AFFILIATION

John G. Searle Assistant Professor
Department of Environmental Health Sciences
School of Public Health
The University of Michigan

CONTACT INFORMATION

1415 Washington Heights
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EDUCATION

1994 – 1998

Duke University
Bachelor of Arts (Environmental Sciences and Policy)
Bachelor of Arts (Spanish)

2001 – 2003

Harvard School of Public Health
Master of Science (Environmental Health and Risk Management)

2003 – 2007

Duke University
Doctor of Philosophy (Genetics and Genomics & Integrated
Toxicology and Environmental Health)

POSTDOCTORAL TRAINING

2007 – 2008

Duke University, Fellow in Radiation Oncology

ACADEMIC APPOINTMENTS/AFFILIATIONS

2008 – present

John G. Searle Assistant Professor, Environmental Health Sciences,
University of Michigan School of Public Health

2009 – present

Faculty, Reproductive Sciences Program, University of Michigan

2009 – present

Member, Metabolomics and Obesity Center, University of Michigan

2009 – present

Member, Comprehensive Cancer Center, University of Michigan

SCIENTIFIC HONORS/AWARDS

2007

Presidents' Award from the Genetics and Environmental Mutagenesis
Society (GEMS)

2011

The Norman Kretchmer Memorial Award in Nutrition and
Development from the American Society for Nutrition (ASN)

2011

Classic Paper of the Year Award from *Environmental Health
Perspectives* for Dolinoy *et al.* 2006. "Maternal genistein alters coat
color and protects *A^y* mouse offspring from obesity by modifying the
fetal epigenome"

2011

Invited Peer-Nominated Participant in the National Institute of
Environmental Health Sciences (NIEHS) Strategic Vision Stakeholder
Workshop, Durham, North Carolina. July 12-14, 2011

2012

Invited Contributor, NIH Roadmap Workshop/White Paper,
"Epigenomic Surrogates for Difficult to Access Tissues," Bethesda,
Maryland. August 28, 2012

2012

ASPH/Pfizer Young Investigator's Award for Distinguished Research
in Public Health

SCIENTIFIC ACTIVITIES

Memberships

2004 – 2008	Genetics and Environmental Mutagenesis Society (GEMS)
2004 – present	Society of Toxicology (Full Member 2010 – present)
2006 – present	Environmental Mutagen and Genomics Society (Epigenetics Special Interest Group, SIG Co-Leader 2010 – present)
2011 – present	International Society for Developmental Origins of Health and Disease
2011 – present	American Society for Nutrition
2013 – present	Faculty Member, Momentum Childhood Obesity Center, University of Michigan

Elected Chairmanship

2011- present	Gordon Research Conference (GRC): Cellular & Molecular Mechanisms of Toxicity - Vice Chair 2011-2013; Chair 2013-2015
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Journal Editorial Boards

2010 – present	<i>Journal of Nutritional Biochemistry (JBN)</i> , Editorial Board Member
2011 – present	<i>Frontiers in Genetics, Toxicogenomics</i> , Review Editor
2012 – 2013	<i>Epigenetics of Diabetes and Obesity</i> , External Advisory Board
2012 – present	<i>Frontiers in Epigenomics</i> , Review Editor
2012 – present	<i>Environmental and Molecular Mutagenesis</i> , Editorial Board Member
2012 – present	<i>Epigenetics</i> , Editorial Board Member
2013 – present	<i>Endocrine Disruptors</i> , Associate Editor
2013 – present	<i>Toxicology Research</i> , Advisory Board Member
2014 – present	<i>Toxicological Sciences</i> , Associate Editor

Journal Editorship

2010 – 2013	Editor, Issue of the <i>ILAR Journal</i> “Epigenetics: A Scientific Advance of Epic Proportions?” 2013
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Manuscript Review

2006 – present	<i>Biochimica et Biophysica Acta</i> ; <i>Environ Health Perspect</i> ; <i>Epigenetics</i> ; <i>FASEB</i> ; <i>Frontiers Neuroendocrinology</i> ; <i>Journal of Nutritional Biochemistry</i> ; <i>PLoS One</i> ; <i>Reproductive Toxicology</i> ; <i>Toxicol Sciences</i>
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Grant and Peer Review

2009 - present	NIEHS K99/K01/K23 Awards Ad Hoc Study Section
2009 - present	University of Michigan Office of the Vice President for Research
2010	NIEHS T32 Ad Hoc Study Section
2011	NIEHS U01 RFA-ES-10-009: Research Consortium for 2-Year Bisphenol A Toxicity Study
2011 - present	NIEHS P30 Pilot Grants (Harvard School of Public Health Center)
2012 – present	NIEHS P30 Pilot Grants (University of Cincinnati)
2012 – present	Michigan Metabolomics and Obesity Center/Michigan Regional Comprehensive Metabolomics Research Core Pilot Grants Review
2013	NIH U01 Common Fund Office of the Director Ad Hoc Study Section
2013	Associations of Schools and Programs of Public Health Award Review

- 2014 NASA grant review
2014 Special Emphasis Panel ZRG1 PSE-B, Mechanistic Insights from Birth Cohorts

External Advisory Committee

- 2013 – present University of Colorado, Denver, Children’s Environmental Health Center P01, External Advisor (Center PI: David Schwartz)

University, School & Departmental Service

- 2008 – 2011 Member, Academic Degrees Program (ADP) Committee, University of Michigan Department of Environmental Health Sciences
2010 – 2013 School of Public Health Representative, Children’s Working Initiative, Michigan Institute for Clinical and Health Research (MICHHR)
2011 – present Member, Professional Degrees Program (PDP) Committee, University of Michigan Department of Environmental Health Sciences
2011 – 2013 Elected Member, Executive Committee, University of Michigan Department of Environmental Health Sciences
2011 – present Appointed Member, Dean’s Faculty Strategy Committee, University of Michigan School of Public Health
2012 – present Executive Committee of the UM Environmental Toxicology and Epidemiology Training Grant (T32)
2013 – present Co-Chair, Admissions Committee, University of Michigan Department of Environmental Health Sciences
2014 – present Provost’s Committee on Faculty in the 21st Century

GRANT SUPPORT

Current Support

R01 ES01752401 (Dolinoy) 09/1/09 - 05/31/14

NIEHS – Outstanding New Environmental Scientist (R01)

In Utero Exposure to Bisphenol A: Effects on the Fetal Epigenome

Our overall objective is to identify epigenome-wide alterations in mice and humans following perinatal exposure to bisphenol a (BPA), a high production volume chemical used in the manufacturing of polycarbonate plastics and epoxy resins, and to map developmentally labile epigenetic genes in order to facilitate human health risk assessment and human disease prevention, diagnosis, and treatment. Role: Principal Investigator

P20 ES018171/RD83480001 (Center PI: Peterson/Project 1 PI: Dolinoy) 8/09/10 - 03/31/14

NIEHSH/EPA Children’s Environmental Health and Disease Prevention Formative Center (P20)

Perinatal Exposures, Epigenetics, Child Obesity, and Sexual Maturation

The objective of this formative center is to examine the effects of perinatal exposure to lead, bisphenol A, and phthalates on the development of obesity in sensitive periods in childhood and on sexual maturation, using both animal models and human samples. Roles: Co-I, Research Project; Principal Investigator, Project 1

R01 CA158286-01 (Rozek/Sartor) 07/01/11-6/30/16

Integrative Epigenomic/Genomic Profiling and Biomarker Discovery in HPV+ and HPV- Head and Neck Squamous Cell Carcinoma

Epigenetic changes are an important mechanism in carcinogenic progression, but how these changes differ between viral- and chemical-induced head and neck cancers remains unknown.

Role: Co-Investigator

P30 ES017885 (Loch-Caruso) 07/01/11 - 06/30/15

UM Life-stage Exposures and Adult Diseases Center

The Center mission is to promote new translational research using novel multi-disciplinary approaches to better understand the impact of environmental exposures on risk of adult chronic disease through mechanisms involving epigenetic modifications during vulnerable stages of life. Roles: Co-Leader, Integrated Health Sciences Core and Co-Leader, Endocrine Disruptor Research Team

P01 ES02284401/83543601 NIEHS/EPA Children's Center PO1 (Center PIs: Peterson/Padmanabhan: Project 3 PI: Dolinoy)

Lifecourse Exposures & Diet, Epigenetics, Maturation & Metabolic Syndrome 05/1/13-04/30/18

Our Center seeks to understand the mechanisms by which exposures to mixtures (bisphenol A, phthalate metabolites, lead, and cadmium) *in utero* and during the pubertal transition affect physical growth and maturation and lead to alterations in metabolic homeostasis, oxidative stress and contribute to risk of metabolic syndrome. Role: PI Project 3, Co-I Project 2

K99 ES02222101 NIEHS K99/R00 Pathway to Independence Award (Sponsored PI: Faulk; Administrative PI: Dolinoy) 09/1/13-08/31/18 **The Environment and Epigenome: Interplay of Toxicants and Transposons in Mammals** The overall objective in this study is to determine if phylogenetic similarity predicts the instability of DNA methylation at transposons and whether early environmental insults shift the methylation pattern in mice and humans and to provide career development and transition resources to Dr. Faulk. Role: Mentor

UM NIEHS Core Center Pilot Grant (Dolinoy) 02/01/12 – 3/31/14

In Utero Lead Exposure and Neuron-specific Epigenetic Change Associated with Life-Course Neurobehavioral Phenotypes

Role: Principal Investigator

UM NIEHS Core Center Pilot Grant (Multiple PI: Harris/Dolinoy) 02/01/12 – 3/31/14

Probing Trichloroethylene Embryotoxicity in the Mouse

Role: Co-Principal Investigator with Craig Harris

UM Office of the Vice President and NIEHS Core Center Pilot Grant (Multiple PI: Basu/Dolinoy) 11/01/12 – 10/31/14

Mercury Exposure, Epigenetics, and Cardiovascular Health in the American Dental Association Cohort. Role: Co-Principal Investigator with Nil Basu

UM NIEHS Core Center Pilot Grant (Multiple PI: Xi/Dolinoy) 11/01/12 – 10/31/14

The Interplay of Heavy Metals and Gut Microbiome on Epigenetic Change

Role: Co-Principal Investigator with Chuanwu Xi

Completed Support

UM Department of Environmental Health Sciences Pilot Grant (Dolinoy) 7/1/09 – 6/30/10

Environmental and Epigenomic Profiling of Pre-Adolescent Females in Rural Versus Urban Egyptian Populations. Role: Principal Investigator

UM Department of Environmental Health Sciences Pilot Grant (Peterson) 7/1/09 – 6/30/10

Perinatal Lead Exposure, Early Childhood Growth and Sexual Maturation. Role: Co-Investigator

UM Department of Environmental Health Sciences Pilot Grant (Harris) 7/1/09 – 6/30/10

Chemical Teratogens and Nutritional Deficits Alter Rat Conceptual DNA Methylation Status Through Mechanisms Involving Oxidative Stress and Redox Regulation. Role: Co-Investigator

UM Center for Human Growth and Development Feasibility Grant 9/1/11-8/30-11

Early Insults and Intervention Pilot Grant (Multiple PI: Felt/Dolinoy)

GRANT SUPPORT – Completed (*Continued*)

Maternal Iron Status Influence on Offspring Epigenomic Patterning and Cognitive Function

Role: Co-Principal Investigator with Barbara Felt (\$2,500)

UM Rackham Graduate School Spring/Summer Research Grant (Dolinoy) 6/1/11 - 8/30/11

Identification of Human Metastable Epialleles in Fetal Tissue. Role: PI and Mentor (\$3,000)

F020604-068625 (Goodrich; Trainee) 09/01/2011 – 08/31/2012

National Institute for Occupational Safety and Health (NIOSH, CDC) Pilot Grant

Mercury and Epigenetics in the Michigan Dental Association (MDA) Cohort

A pilot study to relate mercury exposure and peripheral epigenetic biomarkers.

Role: Co-Investigator & Co-Mentor

P30 DK089503-01 (Burant)

Center: 7/2010-6/2015 Pilot Grant: 12/1/2010 – 8/1/2012

UM Nutrition Obesity Research Center

In Utero BPA Exposure: Effects on Metabolic Homeostasis Mediated by Epigenetic Labile Loci

This project focuses on the influence of *in utero* BPA exposure on offspring lifecourse body composition, hormonal status, and epigenetic gene regulation. Role: Pilot Project Principal Investigator (\$33,000)

UL1 RR 024986-03 (Shanley)

09/17/11 - 05/31/2013

Michigan Institute for Clinical and Health Research (MICHR)

Major goals of this Clinical and Translational Science Award to the University of Michigan Medical Center are to enable and enhance clinical and translational research and move medical research forward to improve health treatments and find cures. Role: Co-Investigator in the Children's Health Initiative

BIBLIOGRAPHY (*underscore indicates author is a UM trainee mentored on indicated paper by DC Dolinoy*)

Peer-Reviewed Publications

BIBLIOGRAPHY – Peer Reviewed Publications

1. Miranda M.L., **Dolinoy D.C.**, and Overstreet M.A. Mapping for prevention: GIS models for directing childhood lead poisoning prevention programs. *Environ. Health Perspect.* 110(9): 947-953, 2002. PMID: 1240996.
2. **Dolinoy D.C.**, and Miranda M.L. GIS modeling of air toxics releases from tri-reporting and non-tri-reporting facilities: impacts for environmental justice. *Environ. Health Perspect.* 112(17): 1717-1724, 2004. PMID: 1253665.
3. Miranda M.L., and **Dolinoy D.C.** Using GIS-based approaches to support research on neurotoxins and other children's environmental health threats. *Neurotoxicology.* 26(2): 223-228, 2005 PMID: 15713343.
4. **Dolinoy D.C.**, Weidman J.R., Waterland R.A., and Jirtle R.L. Maternal genistein alters coat color and protects *A^{vy}* mouse offspring from obesity by modifying the fetal epigenome. *Environ. Health Perspect.* 114(4): 567-572, 2006. PMID: 1440782. **Winner of Classic Paper Award from *Environmental Health Perspectives* 2011.**
5. Weidman J.R., **Dolinoy D.C.**, Maloney K.A., Cheng J.F., and Jirtle R.L. Imprinting of opossum *Igf2r* in the absence of differential methylation and *Air*. *Epigenetics.* 1(1): 49-54, 2006. PMID: 17998818.
6. Waterland R.A., **Dolinoy D.C.**, Lin J.R., Smith C.A., Shi S., Tahiliani K.G. Maternal methyl supplements increase offspring DNA methylation at *Axin Fused*. *Genesis.* 44(9): 401-406, 2006. PMID: 16868943.
7. Bobetsis Y.A., Barros S.P., Lin D., Weidman J.R., **Dolinoy D.C.**, Jirtle R.L., Boggess K., Beck J.D., Offenbacher S. Bacterial infection increases methylation of *IGF2* promoter in mouse placenta. *Journal of Dental Research.* 86(2): 169-174, 2007. PMID: 17251518.

8. **Dolinoy D.C.**, Weidman J.R., and Jirtle R.L. Epigenetic gene regulation: linking early developmental environment to adult disease. *Reproductive Toxicology*. 23(3): 297-307, 2007. PMID: 17046196. **Elsevier's Top 10 Cite Articles on Scopus 2007-2008.**
9. Weidman J.R., **Dolinoy D.C.**, Murphy S.K., and Jirtle R.L. Cancer susceptibility: epigenetic manifestations of environmental exposures. *The Cancer Journal*. 13(1): 9-16, 2007. PMID: 17464241.
10. **Dolinoy D.C.** Epigenetic gene regulation: early environmental exposures. *Pharmacogenomics* 8(2): 169-174, 2007. PMID: 17187501.
11. **Dolinoy D.C.**, Das R., Weidman J.R., and Jirtle R.L. Metastable epialleles, imprinting, and the fetal origins of adult diseases. *Pediatric Research*. 61(5): 30-37, 2007. PMID: 17413847.
12. **Dolinoy D.C.**, Huang D., and Jirtle R.L. Maternal nutrient supplementation counteracts bisphenol A-induced DNA hypomethylation in early development. *Proceedings of the National Academy of Sciences*. 104(32):13056-13061, 2007. PMCID: 1941790. **NIEHS Top 10 Extramural Papers of 2007.**
13. **Dolinoy D.C.** and Jirtle R.L. Environmental epigenomics in human health and disease. *Environmental and Molecular Mutagenesis*. 49(1): 4-8, 2008. PMID: 18172876.
14. **Dolinoy D.C.** The agouti mouse model: an epigenetic biosensor for nutritional and environmental alterations on the fetal epigenome. *Nutrition Reviews*. 66 (Suppl. 1):S7-11, 2008. PMCID: 2822875.
15. **Dolinoy D.C.**, Weinhouse C., Jones T.R., Rozek L.S., Jirtle R.J. Variable histone modifications at the A^{vy} metastable epiallele. *Epigenetics*. 5(7): 637-644, 2010. PMCID: 3052847.
16. Faulk C. and **Dolinoy D.C.** When and how: environmentally induced changes in the epigenomes of animals. *Epigenetics*. 6(7): 791-797, 2011. PMCID: 3230539.
17. Sartor M.A., **Dolinoy D.C.**, Carey T.E., Jones T.R., Colacino J.A., Rozek L.S. Genome-wide methylation and expression differences in HPV(-) and HPV(+) squamous cell carcinoma cell lines point to widely different mechanisms of carcinogenesis. *Epigenetics*. 6(6): 777-787, 2011. PMCID: 3142368.
18. Colacino J.A., Soliman A.S., Calafat A.M., Nahar M.S., Van Zomeran-Dohm A., Hablas A., Seifeldin I.A., Rozek L.S., **Dolinoy D.C.** # Exposure to phthalates among premenstrual girls from rural and urban Gharbiah, Egypt: A pilot exposure assessment study. *Environmental Health*. 10(1): 40, 2011. PMCID: 3112381. # Corresponding Author/Equal-Contribution Co-Senior Author.
19. Weinhouse C., Anderson O.S., Jones T.R., Kim J., Liberman S.A., Nahar M.S., Rozek L.S., Jirtle R. L., **Dolinoy D.C.** An expression microarray approach for the identification of metastable epialleles in the mouse genome. *Epigenetics*. 6(9): 1105-1113, 2011. PMCID: 3225746. **Honored for ASPH/Pfizer Young Investigator Research Award.**
20. Head J.A., **Dolinoy D.C.**, Basu N. Epigenetics for ecotoxicologists. *Environmental Toxicology and Chemistry*. 31(2):221-7, 2012. **Journal Cover.**
21. Bakulski K.M., **Dolinoy D.C.**, Sartor M.A., Paulson H., Lieberman A.P., Albin R.L., Hu H., Rozek L.S. Genome-wide DNA methylation differences between late-onset Alzheimer's Disease and cognitively normal controls in the human frontal cortex. *Journal of Alzheimer's Disease*. 29(3): 571-88, 2012. PMCID: PMC3652332
22. Nahar M.S., Soliman A.S., Colacino, J.C., Calafat A.M., **Dolinoy D.C.**, # Rozek L.S. Urinary bisphenol A measurements in premenstrual females from rural and urban Egypt. *Environmental Health*. 11:20, 2012. PMCID: 3361671. #Corresponding Author/Equal-Contribution Co-Senior Author. **Featured in the NIEHS Global Environmental Health newsletter.**
23. Bakulski K.M., Rozek L.S., **Dolinoy D.C.**, Paulson H., Hu H. Alzheimer's disease, epigenetics, and lead exposure epidemiology. *Current Alzheimer Research*. 9(5):563-73, 2012. PMCID: 3567843
24. Anderson O.S., Nahar M.S., Faulk C., Jones T., Kannan K., Liao C., Weinhouse C., Rozek L.S. **Dolinoy D.C.** Dose-dependent epigenetic effects following maternal dietary bisphenol A exposure. *Environmental and Molecular Mutagenesis*. 53(5):334-42, 2012. PMCID: 3570056

25. Virani S., **Dolinoy D.C.**, Halubai S., Jones T.R., Domino S.E., Rozek L.S., Nahar M.S., Padmanabhan V. Delivery type not associated with differential methylation at birth. *Clinical Epigenetics*. 4(1):8, 2012. PMID: 3404951
26. Anderson O.S., Sant K.E., **Dolinoy D.C.** Nutrigenomics: An interspecies review of dietary methyl donors, one-carbon metabolism and DNA methylation. *Journal of Nutritional Biochemistry*. 23(8):853-859, 2012. Invited Review. PMID: PMC3405985
27. Colacino J.A. #, Arthur A.E. #, **Dolinoy D.C.** Sartor M.A., Duffy S.A., Chepeha D.B., Bradford C.R., Walline H.M. McHugh J.B., D'Silva N., Carey T.E., Wolf G.T., Taylor J.M., Peterson K.E., Rozek L.S. Dietary intake is associated with tumor suppressor DNA methylation in head and neck squamous cell carcinomas. *Epigenetics*. 7(8):883-891, 2012. PMID: 3427284. # co-first authors
28. Patel D., Rozek L.S, Colacino J.A., Van Zomeren-Dohm A., Ruffin M.T., Unger E.R., **Dolinoy D.C.**, Swan D., Onyekwuluje J., DeGraffinreid C.R., Paskett E.D. Patterns of Cellular and HPV 16 Methylation as Biomarkers for Cervical Neoplasia. *Journal of Virological Methods*. 184(1-2):84-92, 2012.
29. Kim J.H., Karnovksy A., Mahavisno V., Weymouth T., Pande M., **Dolinoy D.C.**, Rozek L.S., Sartor M.A. LRpath analysis reveals common pathways dysregulated via DNA methylation across cancer types. *BMC Genomics*. 13(1):526, 2012. PMID: 3505188.
30. Lieberman S.A., Mashoodh R., Thompson R., **Dolinoy D.C.**, Champagne F.A. Concordance in hippocampal and fecal Nr3c1 methylation is moderated by maternal behavior in the mouse. *Ecology and Evolution*. 2(12): 3123–3131, 2012. PMID: 3539005.
31. Nahar M.S., Liao C., Kannan K., **Dolinoy D.C.** Fetal liver bisphenol a concentrations and biotransformation gene expression reveal variable exposure and altered capacity for metabolism in humans. *Journal of Biochemical and Molecular Toxicology*. 27(2):116-123, 2013. PMID: 3578057. **Invited data paper for special issue of ONES R01 Grantees.**
32. Bernal A.J., **Dolinoy D.C.**, Huang D., Skaar D.A., Weinhouse C., Jirtle R.L. Adaptive radiation-induced epigenetic alterations mitigated by antioxidants. *The FASEB Journal*. 27(2):665-671, 2013.
33. Faulk C., Barks A., **Dolinoy D.C.** Phylogenetic and DNA methylation analysis reveal novel regions of variable methylation in the mouse IAP class of transposons. *BMC Genomics*. 14(1):48, 2013. PMID: 3556122.
34. Sant K.E., **Dolinoy D.C.**, Nahar M.S., Harris C. Inhibition of proteolysis in histiotrophic nutrition pathways alters DNA methylation and one-carbon metabolism in the organogenesis-stage rat conceptus. *Journal of Nutritional Biochemistry*. 24(3) 1479-1487, 2013.
35. Colacino J.A., **Dolinoy D.C.**, Duffy S., Sartor M.A., Chepeha D., Bradford C.R., McHugh J.B., Patel D.A., Walline H.M., Light E., Terrell J.E., Stoerker J.A., Taylor J., Carey T.E., Wolf G.T., Rozek L.S. Comprehensive analysis of DNA methylation in head and neck squamous cell carcinoma indicates differences by survival and clinicopathologic characteristics. *PloS ONE*. 8(1), 2013. PMID: 3554647.
36. Goodrich J.M., Basu N., Franzblau A., **Dolinoy D.C.** Mercury biomarker levels and gene specific methylation in the Michigan Dental Association Cohort. *Environmental and Molecular Mutagenesis*. 54(3):195-203, 2013. PMID: 3750961.
37. Anderson O.S., Peterson K.E., Sanchez B.N., Zhang Z. Mancuso P.M., **Dolinoy, D.C.** Perinatal bisphenol A exposure promotes hyperactivity, lean body composition, and hormonal responses across the murine life-course. *The FASEB Journal*. 27(4):1784-1792, 2013. PMID: 3606526.
38. Kim J.H., Rozek L.S., Soliman A.S., Sartor M.A., Hablas A., Seifeldin I.A., Colacino J.A., Weinhouse C., Nahar M.S., **Dolinoy, D.C.** Bisphenol A-associated epigenomic changes in prepubescent girls from Gharbiah, Egypt. *Environmental Health*. 12(1):33, 2013. PMID: 3655072.

39. O'Brien E., **Dolinoy D.C.**, Mancuso P. Bisphenol A at concentrations relevant to human exposure enhances histamine and cysteinyl leukotriene release from bone marrow-derived mast cells. *Journal of Immunotoxicology*. 11(1):84-89, 2014.
40. O'Brien E., **Dolinoy D.C.**, Mancuso P. Perinatal bisphenol A exposures increase production of pro-inflammatory mediators in bone marrow-derived mast cells of adult mice. *Journal of Immunotoxicology*. 2013. In Press.
41. Faulk C., Barks A., Liu K., Goodrich J.M., **Dolinoy D.C.** Early life lead exposure results in dose and sex-specific effects on weight and epigenetic gene regulation in weanling mice. *Epigenomics*. 5(5):487-500, 2013.
42. Vandenberg LN, Ehrlich S, Belcher SM, Ben-Jonathan N, **Dolinoy DC**, Hugo ER, Hunt PA, Newbold RR, Rubin BS, Saili KS, Soto AM, Wang H, vom Saal FS. Low dose effects of bisphenol A: An integrated review of in vitro, laboratory animal and epidemiology studies. *Endocrine Disruptors*. 2013. In Press.
43. Nahar M.S., Kim J.H., Sartor M.A, **Dolinoy D.C.** Bisphenol A dependent alterations in xenobiotic metabolizing enzyme gene expression and epigenetic regulation in human fetal liver. *Environmental and Molecular Mutagenesis*. 2013. In Press.
44. Weinhouse C., Anderson O.S., Bergin I.L, Vandenberg D.J., Gyekis J.P., Dingman M.A., Yang J., **Dolinoy D.C.** Dose-dependent incidence of hepatic tumors following perinatal bisphenol A exposure. *Environmental Health Perspectives*. 2014. In Press.
45. Rozek L.S., **Dolinoy D.C.**, Sartor M.A. Ommen G.S. Epigenetics: Relevance and implications for public health. *Annual Review of Public Health*. Vol 35, 2014. In Press.
46. O'Brien E., Bergin I.L., **Dolinoy D.C.**, Zaslona Z., Little R.J.A., Tao Y., Peters-Golden M., Mancuso P. Perinatal bisphenol A exposure enhances allergen sensitization, but not pulmonary inflammation, in adult mice. *The DOHaD Journal*. 2014. In Press.
47. Kim J.H., Sartor M.A, Rozek L.S., Faulk C., Anderson A.S., Jones T.R., Nahar M.S., **Dolinoy D.C.** Perinatal bisphenol A exposure promotes dose-dependent alterations on the mouse methylome. *BMC Genomics*. In Press. 2014. PMID: 3902427

Book Chapters (Peer Reviewed)

1. **Dolinoy D.C.** "Epigenetics and Carcinogenesis," In *Comprehensive Toxicology*. Edited by C. McQueen and R. Roberts, Elsevier: Oxford, 2010.
2. **Dolinoy D.C.**, Anderson O.S., Rozek L.S. "Epigenetic Manifestations of Environmental Exposures," In *Nutrition Epigenetics*. Edited by Mihai Niculescu, Wiley-Blackwell, Ames, Iowa, 2011.
3. Sant K.E., Nahar M.S., **Dolinoy D.C.** "DNA Methylation Screening and Analysis," In *Methods in Molecular Biology: Developmental Toxicology*. Edited by John M. Walker. Humana Springer. 2011.
4. Sartor M.A., **Dolinoy D.C.**, Rozek L.S., Omenn G. "Bioinformatics for High-Throughput Toxicogenomics Studies," In *Toxicology and Epigenetics*. Edited by Saura C. Saha. John Wiley. 2012.
5. Faulk C. and **Dolinoy D.C.** "Complex Phenotypes: Epigenetic Manifestation of Environmental Exposures," In *Environmental Epigenomics in Health and Disease*. Edited by Randy L. Jirtle and Frederick L. Tyson. Springer. 2013.
6. Marchelwicz E.H., Anderson O.S., **Dolinoy D.C.** "Early life exposures and the epigenome – interactions between nutrients and the environment," In *The Role of Nutrition and Metabolism on Epigenetic Regulation*. Edited by Emily Ho and Frederick Domann. Taylor & Francis Group, CRC Press. 2014.

Other Publications (non-Peer Reviewed)

1. Miranda M.L., Yarger L., **Dolinoy D.C.** *Childhood Lead Exposure: Effects and Policy Options*. Case Study used in the Duke University Environmental Sciences and Policy Program. 2000.

2. Miranda M.L., **Dolinoy D.C.**, Overstreet M.A. "GIS & childhood lead exposure: From research design to model development to community translation." *Public Health GIS News & Information*. No. 54. 2003.
3. **Dolinoy D.C.** and Faulk C. The use of animal models to advance epigenetic science. *The ILAR Journal*. 2013. PMID: 3747759.

BIBLIOGRAPHY – Conference Proceedings/Abstracts

Conference Proceedings/Abstracts

1. DeMasellis G., Nahar M., Pappy A., Goodrich J., Cornell T., Shanley T., **Dolinoy D.C.** Genomic DNA methylation changes in response to sepsis in a murine model. Society of Critical Care Medicine Annual Meeting, January 2014, San Francisco, California (Poster).
2. Nahar M.S., **Dolinoy D.C.** Bisphenol A-Dependent Alterations in Xenobiotic Metabolizing Enzyme Gene Expression and Epigenetic Regulation in Human Fetal Liver. Environmental and Molecular Mutagenesis, September, 2013, Monterey, California (Platform).
3. Weinhouse C. **Dolinoy D.C.** An Expression Microarray Approach for Identification of Metastable Epialleles in the Human Genome. Environmental and Molecular Mutagenesis, September 2013, Monterey, California (Poster/Epigenetics SIG Breakfast Talk).
4. Nahar M.S., Kim J., Sartor M.A., Rozek L.S., **Dolinoy D.C.** Bisphenol A Dependent Alterations In Xenobiotic Metabolizing Enzyme Gene Expression And Epigenetic Regulation In Human Fetal Liver. Gordon Research Conference in Cellular and Molecular Mechanisms of Toxicity, August 2013, Andover, New Hampshire (Poster).
5. Faulk C., Barks A., Liu K., Goodrich J. **Dolinoy D.C.** Epigenetic Variation and Physiological Changes Induced by Lead (Pb) in Mice. Gordon Research Seminar in Cellular and Molecular Mechanisms of Toxicity, August 2013, Andover, New Hampshire (Platform Talk).
6. Basu N., Goodrich J.M., Chou H.N., Franzblau A., **Dolinoy D.C.** Mercury Exposure and DNA Methylation Among Dental Professionals. The 11th International Conference on Mercury as a Global Pollutant. July 2013, Edinburgh, Scotland (Poster).
7. Goodrich J.M., **Dolinoy D.C.**, Sánchez B., Zhang Z., Afeiche M., Jones T.R., Hu H., Peterson K.E., Téllez-Rojo M.M. Early Life Lead Exposure Influences DNA Methylation at Birth and in Adolescence. Pediatric Academic Societies' Annual Meeting, May 2013, Washington, DC (Poster).
8. Anderson O.S., Peterson K.E., Sanchez B.N., Zhang Z., Mancuso P., **Dolinoy D.C.** Perinatal bisphenol A promotes hyperactivity with corresponding hormonal responses. Experimental Biology/American Society of Nutrition Annual Meeting, April 23, 2013, Boston, Massachusetts (Poster).
9. Peterson K.E., **Dolinoy D.C.**, Burant C., Lee J., Sanchez B., Zhang Z., Yang T.C., Goodrich J., Ettinger A.E., Meeker J., Hu H., Wang N., Tellez-Rojo M.M. Association of Lead Exposure and Untargeted Metabolomics with BMI and Hormones in Adolescence. Experimental Biology/American Society of Nutrition Annual Meeting, April 23, 2013, Boston, Massachusetts (Poster).
10. Nahar M.S., Kim J.H., Rozek L.S., Sartor M.A., **Dolinoy D.C.** Global and Epigenome-wide Methylation Profiles in Human Fetal Liver Samples Characterized for Bisphenol A Exposure. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (Poster).
11. Weinhouse C., Anderson O.S., Bergin I., **Dolinoy D.C.** Dose-dependent Incidence of Murine Hepatic Tumors following Perinatal Bisphenol A Exposure. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (**Platform; Weinhouse awarded SOT Travel Award and 2nd place Student Award from the SOT Comparative and Veterinary Specialty Section**).
12. Nahar M.S., Kim J.H., Rozek L.S., Sartor M.A., **Dolinoy D.C.** Global and Epigenome-wide Methylation Profiles in Human Fetal Liver Samples Characterized for Bisphenol A Exposure. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (Poster).

13. Barks A., Faulk C., Goodrich J.M., Anderson O.S., Peterson K.E., **Dolinoy D.C.** Epigenetic and Physiologic Effects of Perinatal Lead Exposure. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (Poster).
14. Faulk C., Barks A., **Dolinoy D.C.** Phylogenetic Identification of Variably Methylated Transposons as Biomarkers for Early Environmental Exposures. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (Poster).
15. Goodrich J.M., Basu N., Chou H.N., Franzblau A., **Dolinoy D.C.** Mercury Exposure and DNA Methylation Among Dental Professionals. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (Poster).
16. O'Brien E., Bergin I.L., **Dolinoy D.C.**, Zaslona Z., Little R.J.A., Tao Y., Peters-Golden M., Mancuso P. Perinatal bisphenol A exposure enhances allergen sensitization, but not pulmonary inflammation. Society of Toxicology Annual Meeting, March 2013, San Antonio, Texas. (Poster).
17. Weinhouse C., Anderson O.S., Bergin I., **Dolinoy D.C.** Dose-dependent Incidence of Hepatic Tumors following Perinatal Bisphenol A Exposure. Environmental Mutagen Society Annual Meeting, September 2012, Bellevue, Washington. (Poster).
18. Anderson O.S., Sanchez B.N., Peterson K.E., Zhang Z., **Dolinoy D.C.** In utero bisphenol A exposure: Effects on metabolic homeostasis throughout the life-course. American Society for Nutrition, Experimental Biology, April 2012, San Diego, California. (Poster).
19. Cote M.L., Colacino J.A., Sheng S., Lonardo F., Stewart M., **Dolinoy D.C.**, Jones T.R., Schwartz A.G., Rozek L.S. Methylation profiles using >480,000 cytosine markers of early stage adenocarcinomas of the lung. American Association for Cancer Research (AACR), March 2012, Chicago, Illinois. (Poster).
20. Arthur A.E., Colacino J.A., Duffy S.A., **Dolinoy D.C.** Terrell J., Sartor M. Chepeha D. McHugh J.B, Wolf G.T., Carey T.E., Peterson K.E., Rozek L.S. Dietary intake is associated with tumor suppressor DNA methylation in head and neck squamous cell carcinomas. American Association for Cancer Research (AACR), March 2012, Chicago, Illinois. (Poster). **Press Release in Oncology Times.**
21. Faulk C., Barks A.K., Anderson O.S., **Dolinoy D.C.** Repeat Driven Metastability of DNA Methylation in Response to Environmental Exposures. Society of Toxicology, March 11-14, 2012, San Francisco, California. (Poster).
22. Nahar M.S. and **Dolinoy D.C.** In Utero Bisphenol A Exposure and Differential Hepatic Biotransformation Expression in the Developing Human Fetus. Society of Toxicology, March 11-14, 2012, San Francisco, California. (Poster).
23. Bernal A. Huang D., **Dolinoy D. C.**, Jirtle R.L. Low-dose Ionizing Radiation Alters the Fetal Epigenome of the *A^y* Mouse. Society of Toxicology, March 11-14, 2012, San Francisco, California. (Poster).
24. Kim J., Karnovsky A., Mahavisno V., Weymouth T., **Dolinoy D.C.**, Rozek L.S., Sartor M.A. LRpath analysis reveals common pathways dysregulated via DNA methylation across cancer types. Cancer Genome Atlas Research Network Meeting, Washington D.C. November 2011 (Sartor – Invited Talk).
25. Colacino J.A., Light E., **Dolinoy D.C.**, Duffy S., Sartor M., Chepeha D., McHugh J., Patel D., Taylor J., Wolf G., Carey T.E., Rozek L.S. A Comprehensive Analysis of Methylation in Head and Neck Squamous Cell Carcinoma Indicates Differences Between Viral and Chemical Induced Carcinogenesis. International Society of Environmental Epidemiology (ISEE). September 16, 2011, Barcelona, Spain. (Platform Talk).
26. Nahar M.S., Liao C., Kannan K., Rozek L., **Dolinoy D.C.** Quantification of Free and Conjugated BPA in Human Fetal Tissue. International Society of Environmental Epidemiology (ISEE). September 17, 2011, Barcelona, Spain. (Poster Presentation).
27. Virani S., Halubai S., Nahar M.S., **Dolinoy D.C.**, Domino S.E, Rozek L.S, Padmanabhan V. Delivery Type Not Associated with Differential Methylation at Birth. International Society of Environmental

- Epidemiology (ISEE). September 17, 2011, Barcelona, Spain (Poster/Short Talk Presentation).
28. Faulk C., Barks A., **Dolinoy D.C.** Repeat Driven Metastability of DNA Methylation in Mouse. FASEB Mobile DNA in Mammalian Genomes. Snowmass Village, Colorado. August 10, 2011. (Platform Talk).
 29. Nahar M.S. and **Dolinoy D.C.** Gene Expression of Bisphenol A-related Xenobiotic Metabolism Enzymes in the Developing Human Fetus. Gordon Research Conferences: Cellular & Molecular Mechanism of Toxicity. Andover, New Hampshire. August 8, 2011. (Poster). **2nd Place Poster Award.**
 30. Sant K.E., **Dolinoy D.C.**, Harris, C. Ethanol Exposure Alters Fetal Nutrition and DNA Methylation During Organogenesis. Gordon Research Conferences: Cellular & Molecular Mechanism of Toxicity. Andover, New Hampshire. August 9, 2011. (Poster).
 31. Anderson O.S., Nahar M.S., Jones T.R., **Dolinoy D.C.** Dose-Dependent Shifts in *A^y* Coat Color Distribution following Maternal Dietary Exposure to Bisphenol A. Michigan Dietetics Association. May 14, 2011, Ann Arbor, MI (Poster). **Winner, 2nd Place Poster Award.**
 32. Weinhouse C., Nahar M.S., Anderson O.S., Jones T.R., Liberman S.A., Rozek L.S., **Dolinoy D.C.** The 'Agouti Expression Fingerprint', a novel method for identification of candidate metastable epialleles. Environmental Epigenomics and Disease Susceptibility Keystone Symposia. March 27-April 1, 2011, Asheville, NC (Poster).
 33. Bakulski K., Rozek L., Sartor M., Paulson H., Lieberman A., Albin R., Hu H., **Dolinoy D.** Genome-wide DNA methylation differences between late-onset Alzheimer's disease and cognitively normal controls in the human frontal cortex. Environmental Epigenomics and Disease Susceptibility Keystone Symposia. March 27-April 1, 2011, Asheville, NC (Poster).
 34. Nahar M.S., Weinhouse C., Anderson O.S., Jones T.R., Liberman S.A., Rozek L.S., **Dolinoy D.C.** *In Utero* Bisphenol A Exposure Alters Metastable Epiallele and Global DNA Methylation Patterns in Mouse Offspring. Society of Toxicology, March 6-10, 2011, Washington, D.C. (Poster).
 35. Anderson O.S., Nahar M.S., Jones T.R., **Dolinoy D.C.** Dose-Dependent Shifts in *A^y* Coat Color Distribution following Maternal Dietary Exposure to Bisphenol A. Society of Toxicology, March 6-10, 2011, Washington, D.C. (Poster).
 36. Sant K.E., Nahar M., **Dolinoy D.**, Harris C. Histirotrophic Nutrition informs DNA methylation in the rat conceptus. Society of Toxicology, March 6-10, 2011, Washington, D.C. (Poster).
 37. Colacino J.A., Soliman A., Nahar M.S., Van Zomeren-Dohm A., Seifeldin I., Hablas A., Rozek L.S., **Dolinoy D.C.** Exposure to Phthalates among Premenstrual Girls from Rural and Urban, Gharbiah, Egypt. Society of Toxicology, March 6-10, 2011, Washington, D.C. (Poster).
 38. Bakulski K., **Dolinoy D.**, Sartor M., Paulson H., Lieberman A., Albin R., Hu H., Rozek L. Genome-wide DNA methylation differences between late-onset Alzheimer's disease and cognitively normal controls in the human frontal cortex. Society of Toxicology, March 6-10, 2011, Washington, D.C. (Platform Talk). **Winner, SOT Student Travel Award.**
 39. Villamor E., Rozek L.S., VanZomeren-Dohm A., **Dolinoy D.C.**, Marin C., Mora-Plazas M., Baylin A. *LINE-1 DNA methylation in Colombian school children is associated with birth weight and maternal BMI, and predicts physical growth.* Experimental Biology, Anaheim, California, April 2010. (Platform Talk).
 40. Sartor M.A., **Dolinoy D.C.**, Jones T.R., Carey T.E., Rozek L.S. *Combined approach using the Illumina Infinium Methylation27 BeadArray and Affymetrix Tiling Chip Set: Preliminary results illustrate methylation differences in HPV(+) and HPV(-) head and neck cancers.* AACR Cancer Epigenetics Conference, San Juan, Puerto Rico, January 2010. (Platform Talk).
 41. Bernal A.J. **Dolinoy D.C.**, Huang D., Li G., Jirtle R.J. *Low LET Radiation Alters the Fetal Epigenome of the *A^y* Mouse.* Department of Energy (DOE) Low Dose Radiation Conference. Washington D.C., April 2010. (Poster).
 42. Anderson O.S. and **Dolinoy D.C.** *Maternal Iron Status Predicts DNA Methylation Status of Offspring.*

- Michigan Dietetics Conference*. Bay City, Michigan, April 2010. (Poster). **Winner, Best Poster.**
43. **Dolinoy D.C.** and Jirtle R.L. *Variable Histone Modifications at the A^{vy} Metastable Epiallele*. Society of Toxicology 47th Annual Meeting, Seattle, Washington. March 16-20, 2008. (Poster).
 44. **Dolinoy D.C.** and Jirtle R.L. *Variable Histone Modifications at the Viable Yellow Agouti (A^{vy}) Metastable Epiallele*. Environmental Mutagen Society Annual Conference, Atlanta, Georgia. October 20-24, 2007. (Platform Talk).
 45. **Dolinoy D.C.**, Huang D., Weidman J.R., Jirtle R.L. *Environmental Influences on the Fetal Epigenome*. 46th Meeting of the Society of Toxicology. Charlotte, North Carolina. March 26-29, 2007. (Poster).
 46. **Dolinoy D.C.**, Huang D., Jirtle R.L. *Environmental Influences on the Fetal Epigenome: Bisphenol A (BPA)-Induced DNA Hypomethylation Negated by Maternal Nutritional Supplementation*. North Carolina Society of Toxicology Meeting. Research Triangle Park, North Carolina. March 19, 2007. (Poster).
 47. Weidman J.R., **Dolinoy D.C.**, Jirtle R.L. *Radiation and the fetal epigenome*. 6th Low Dose Program Investigator's Workshop, Washington, DC. July 31, 2006. (Poster).
 48. **Dolinoy D.C.** and Jirtle R.L. *Environmental Influences on the Fetal Epigenome*. Genetics and Environmental Mutagenesis Society Fall Conference, Chapel Hill, North Carolina. October 2006. (Platform Talk). **Winner, Best Student Talk.**
 49. **Dolinoy D.C.** and Jirtle R.L. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. Environmental Mutagen Society Annual Conference, Vancouver, Canada. September 18, 2006. (Poster). **Winner, Student Travel Award.**
 50. **Dolinoy D.C.**, Waterland R.A., Weidman J.R., Jirtle R.L. *Maternal Genistein Alters Coat Color and Protects Mouse Offspring from Obesity by Altering the Fetal Epigenome*. Environmental Epigenomics, Imprinting and Disease Susceptibility Conference. Durham, North Carolina. November 2-4, 2005. (Poster).
 51. Weidman J.R., Maloney K.A., **Dolinoy D.C.**, Jirtle R.L. *Phylogenomic investigations into the evolution and regulation of imprinted genes*. Environmental Epigenomics, Imprinting and Disease Susceptibility Conference. Durham, North Carolina. November 2-4, 2005. (Poster).
 52. **Dolinoy D.C.**, Waterland R.A., Weidman J.R., Jirtle R.L. *Maternal Exposure to the Phytoestrogen Genistein Influences Epigenetic Gene Regulation in A^{vy} Mouse Offspring and Protects Against Obesity*. 6th Annual Sex and Gene Expression (SAGE) Conference. Winston Salem, North Carolina. March 17-19, 2005. (Poster). **Winner, Florence P. Haseltine Award for the Outstanding Poster Presentation by a New Investigator in Sex-Based Biology.**
 53. **Dolinoy D.C.**, Waterland R.A., Jirtle R.L. *Maternal Exposure to the Phytoestrogen Genistein Influences Epigenetic Gene Regulation in A^{vy} Mouse Offspring and Protects Against Obesity*. 44th Annual Meeting of the Society of Toxicology. New Orleans, Louisiana. March 7-10, 2005. (Poster).
 54. **Dolinoy D.C.**, Waterland R.A., Jirtle R.L. *Maternal Exposure to the Phytoestrogen Genistein Influences Epigenetic Gene Regulation in A^{vy} Mouse Offspring and Protects Against Obesity*. NC SOT. Research Triangle Park, North Carolina. February 17, 2005. (Poster). **Winner, Student Award Competition.**
 55. **Dolinoy D.C.**, Waterland R.A., Weidman J.R., Jirtle R.L. *Maternal Exposure to the Phytoestrogen Genistein Influences Epigenetic Gene Regulation in Mouse Offspring*. 22nd Fall Meeting Genetics and Environmental Mutagenesis Society: DNA Methylation and its Toxicological Consequences. Chapel Hill, North Carolina. November 10, 2004. (Poster). **Winner, 1st Place Doctoral Student Competition.**
 56. **Dolinoy D.C.** and Miranda M.L. *Methods for GIS-Based Dispersion Modeling of Air Toxics Releases: Impacts for Children's Health and Environmental Justice*. 21st International Neurotoxicology Conference Infant and Child Neurotoxicology Studies: Subtle and Long-Term Effects. Honolulu, Hawaii. February 10-13, 2004 (Poster). **Winner, 2nd Place Pre-Doctoral Student Competition.**
 57. Miranda M.L., Thomann W.A., Abrams M., **Dolinoy D.C.**, Overstreet M.A. *GIS Models of Childhood*

Exposures to Allergens and Asthma Triggers in the Home Environment. CDC National Asthma Conference. Atlanta, Georgia. October 23-25, 2002. (Poster).

EXTRAMURAL INVITED PRESENTATIONS, ADVISORY PANELS, and CHAIRMANSHIPS

1. Invited Seminar Speaker. *Perinatal Environmental Exposures, Epigenetics, and Lifecourse Health Effects* University of Pennsylvania Center for Research on Reproduction and Women's Health. February 26, 2014.
2. Invited Speaker. University of California, Los Angeles, Workshop "Our Chemical Nature," February 20-21, 2014.
3. Invited Speaker. *Developmental Exposure to Bisphenol A and Lead: Effects on Metabolic Homeostasis and the Epigenome.* AAAS Annual Meeting, Chicago, Illinois, February 16, 2014.
4. Invited External Advisory Board Member, University of Colorado Children's Environmental Health Center, December 11-13, 2013.
5. Invited Speaker. *Perinatal Environmental Exposures, Epigenetics, and Lifecourse Health Effects.* U.S. National Institutes of Health/Environmental Protection Agency, Children's Environmental Health Centers Meeting. October 30, 2013.
6. Invited Speaker. *In Utero Exposure to Bisphenol A: Effects on Metabolic Homeostasis and the Epigenome.* National Institute of Environmental Health Sciences (NIEHS) ONES Grantee Meeting, Durham, North Carolina, May 20, 2013.
7. Invited Speaker and Webinar. *Perinatal Environmental Exposures, Epigenetics, and Lifecourse Health Effects.* Hosted by the U.S. Environmental Protection Agency, Children's Environmental Health Centers. April 10, 2013.
8. Invited Speaker. *Perinatal Environmental Exposures and Lifecourse Health Effects.* Environmental Epigenetics of Autism (hosted by Autism Speaks), Sacramento, California, March 21, 2013.
9. Invited Symposium Speaker. *Developmental Exposure to Bisphenol A and Lead: Effects on Metabolic Homeostasis and the Epigenome.* Society of Toxicology, San Antonio, Texas, March 11, 2013.
10. Invited Speaker. *Human Fetal Tissue BPA Metabolism.* NIEHS BPA Grantees Meeting, Durham, North Carolina, January 28, 2013.
11. Invited Seminar Speaker. *Perinatal Exposure to Bisphenol A and Lead: Effects on Metabolic Syndrome Risk and the Epigenome.* Institute of Environmental Health Sciences and the Department of Pharmacology at Wayne State University. December 14, 2012.
12. Invited Speaker with Karen E. Peterson. *Toxicant Exposures and the Development of Obesity in Childhood.* EPA-NIEHS Children's Centers Webinar. November 14, 2012.
13. Invited Symposium Speaker. *Developmental Origins of Adult Disease and its Implications for Alzheimer's Disease,* Society for Neuroscience, New Orleans, Louisiana, October 14, 2012. **(Symposium synopsis featured in the Alzheimer Research Forum magazine, <http://www.alzforum.org/new/detail.asp?id=3328>).**
14. Live Webinar. *Developmental Stressors and Epigenetics: Perinatal Environmental Exposures and Life Course Health Effects.* Epigenie, October 11, 2012
15. Invited Speaker. *Perinatal Exposures: Effects on Metabolic Syndrome Risk and the Epigenome.* NIEHS Obesity Grantee Meeting, Ann Arbor, Michigan, October 4, 2012.
16. Invited Speaker. *Environmental induced changes in the epigenome: An overview.* The Obesity Society, San Antonio, Texas, September 21, 2012.

17. Invited Symposium Speaker and Session Chair. *Environmentally Induced Changes in the Epigenome*, Environmental Mutagen Society, Seattle, Washington, September 9, 2012.
18. Invited Speaker. *Epigenetics and Environmental Exposures*, Gordon Research Conference on Environmental Endocrine Disruptors, West Dover, Vermont, June 4, 2012.
19. Invited Keynote Address. *Developmental Stressors and Epigenetics: Perinatal Environmental Exposures and Life Course Health Effects*, Children's Environmental Health Network Annual Meeting, San Francisco, California, May 31, 2012.
20. Invited Seminar Speaker. *In Utero Bisphenol A Exposure: Effects on Epigenetics and Metabolic Homeostasis Throughout the Life Course*, University of Kentucky Nutritional Sciences Seminar Series, April 24, 2012.
21. Invited Speaker. *Early Exposure to Bisphenol A and Lead: Effects on Metabolic Homeostasis and the Epigenome*, NIEHS and EPA Centers for Children's Environmental Health and Disease Prevention Research: Strengthening the Network, Bethesda, Maryland, March 6, 2012
22. Invited Seminar Speaker. *In Utero Bisphenol A Exposure: Effects on the Fetal Epigenome*, Rutgers Environmental and Occupational Health Sciences Institute, March 1, 2012.
23. Invited Speaker. *Relevance of Animals Models in Environmental Epigenetics*. Epigenetics of Autism Spectrum Disorders Meeting, Washington D.C. December 6, 2011.
24. Co-Chair. Epigenetics Special Interest Group Breakfast Science Session, Environmental Mutagenesis Society Annual Meeting, Montreal, Canada. October 2011.
25. Chair and Organizer. *Epigenetic Mechanisms in Regulation of Xenobiotics and Methodologies for Their Investigation*, International Society for the Study of Xenobiotics (ISSX) Annual Meeting, Atlanta, Georgia. October 2011.
26. Invited Speaker, Continuing Education CE Course. *Bisphenol A Epigenomics From Mice to Men*. International Society for the Study of Xenobiotics (ISSX) Annual Meeting, Atlanta, Georgia. October 2011.
27. Invited Speaker. *Environmental Epigenetics From Mice to Men*. North Carolina Society of Toxicology Meeting, Durham North Carolina. September 2011. **(Featured in the NIEHS Environmental Factor, October 2011, <http://www.niehs.nih.gov/news/newsletter/2011/october/science-meeting/index.cfm>).**
28. Invited Speaker. *Bisphenol A Epigenomics: From Mice to Men*. Gordon Research Conference: Cellular & Molecular Mechanisms of Toxicity, Andover, New Hampshire. August 2011.
29. Organizer and Discussion Leader. *Epigenomics*. Gordon Research Conference: Cellular & Molecular Mechanisms of Toxicity, Andover, New Hampshire. August 2011.
30. Invited Speaker. *In Utero Exposure to Bisphenol A: Effects on the Fetal Epigenome*. Meeting of the Outstanding new Environmental Scientists Grantee Forum, National Institutes of Environmental Health Sciences, Durham, North Carolina. July 2011.
31. Plenary Speaker. *Epigenetic Effects of Fetal and Post-natal Environmental and Nutritional Exposures on Later Outcomes in Life*. Pediatric Academic Societies Annual Meeting, Denver, Colorado. May 2011.
32. Invited Continuing Education (CE) Course Speaker. *Epigenetic Effects of Fetal and Post-natal Environmental and Nutritional Exposures on Later Outcomes in Life*. Society of Toxicology Annual Meeting, Washington, D.C. March 2011.

33. Invited Symposium Speaker. *Environmental Epigenomics and Risk Assessment: What Constitutes and Adverse Effect and Issues of Nonlinearity*. Society of Toxicology Annual Meeting, Washington, D.C. March 2011.
34. Invited Speaker. *Complex Diseases: Epigenetic Manifestation of Environmental Exposures*. Keystone Meeting on Environmental Epigenomics, Asheville, North Carolina. March 2011. **(Featured by Epigenie on YouTube, <http://www.youtube.com/watch?v=F36rg1t-4M>).**
35. Invited Lecture. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. University of Louisville Center of Biomedical Research Excellence (COBRE) program, Louisville, Kentucky. January 2011.
36. Invited Speaker. *Environmental Epigenomics: Novel Approaches and Insights*. Wayne State University Karmanos Cancer Center Retreat, Detroit, Michigan. November 2010.
37. Invited Plenary Speaker. *Simple Dietary Changes Can Protect Against the Harmful Effects of Environmental Toxicants on the Developing Fetus*. Rochester Women's Environmental Health Conference, Rochester, New York. September 2010.
38. Invited Speaker with Karen E. Peterson. *Using Epigenetic Epidemiology to Understand Effects of Exposures on Growth & Maturation*. Children's Environmental Health EPA/NIH Meeting, Washington, D.C. October 2010.
39. Invited Speaker. *In Utero Exposure to Bisphenol A: Effects on the Fetal Epigenome*. ONES (Outstanding New Environmental Scientist) NIEHS Symposium, Durham, North Carolina. January 2010.
40. Invited Plenary Lecture. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. AACR Frontiers in Cancer Prevention Meeting, Houston, Texas. December 2009.
41. Invited Seminar Speaker. *Adaptations or Adverse Events: Environmental Epigenetics*. ILSI/HESI Epigenetics Workshop, Durham, North Carolina. October 2009.
42. Symposium Speaker. *Epigenetic Gene Regulation: Linking Early Development Environment to Adult Disease*. Society for the Study of Reproduction (SSR) Annual Meeting, Pittsburg, Pennsylvania. July 2009.
43. Symposium Speaker. *Epigenetics and environmental estrogens*. Society for Behavioral Neuroendocrinology Annual Meeting, East Lansing, Michigan. June 2009.
44. Plenary Speaker. *Epigenetics and the Developmental Origins Hypothesis*. Pediatric Academic Societies Annual Meeting, Baltimore, Maryland. May 2009.
45. Seminar Speaker. *Epigenetics: The New Genetics of Toxicology*. Department of Pharmacology and Toxicology, Michigan State University. April 2009.
46. Invited Speaker. *Environmental Epigenetics: The New Genetics of Toxicology*. Michigan Society of Toxicology Annual Meeting, Ann Arbor, Michigan. December 2008.
47. Symposium Speaker. *Environmental and Nutritional Epigenetics*. American College of Nutrition Annual Meeting, Arlington, Virginia. October 2008.
48. Symposium Speaker and Platform Session Chair. *Environmental Epigenomics*. Environmental Mutagen Society Annual Meeting, San Juan, Puerto Rico. October 2008.
49. Symposium Speaker. *Epigenetics and Its Importance in Toxicology*. Society of Toxicology 47th Annual Meeting, Molecular Basis for Susceptibility to Chemical Toxicity and Disease Symposium, Seattle, Washington. March 2008.

50. Symposium Speaker. *When Environment and Biology Collide - Epigenetic Gene Regulation: Linking the Early Developmental Environment to Adult Disease*. 5th Annual Pediatric Healthy Weight Summit, Greenville, North Carolina. March 2008.
51. Invited Speaker. *Radiation and the Fetal Epigenome*. Low Dose Radiation Research Workshop, Department of Energy, Washington, D.C. January 2008.
52. Interview. *A Tale of Two Mice*. Audio slide show for the PBS program, *Nova ScienceNow*. <http://www.pbs.org/wgbh/nova/sciencenow/3411/02.html>. 2007.
53. Invited Speaker. *Epigenetics: The New Genetics of Toxicology*. Center for Research on Occupational and Environmental Toxicology (CROET) Seminar Series, Oregon Health & Science University, Portland, Oregon. December 2007.
54. Invited Speaker. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. 2007 Annual Meeting, Gulf Coast Chapter Society of Toxicology, College Station, Texas. October 2007.
55. Invited Speaker. *Maternal Nutrient Supplementation Counteracts Bisphenol-A-Induced DNA Hypomethylation in Early Development*. Diet, Epigenetic Events, and Cancer Prevention Symposium, National Cancer Institute, Gaithersburg, Maryland. October 2007.
56. Invited Speaker. *The Agouti Mouse Model: An Epigenetic Biosensor for Exploring the Impacts of Environmentally-Induced Nutritional and Chemical Alterations on Human Health*. 33rd Annual ToxFORUM Summer Meeting, Aspen, Colorado. July 2007.
57. Invited Symposium Speaker. *Endocrine Active Compounds and the Fetal Epigenome*. Epigenetics: From Mechanisms to Medicines Conference, Molecular Medicine Center, Dublin, Ireland. June 2007.
58. Invited Speaker. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. American Chemistry Council, Alexandria, Virginia. May 2007.
59. Invited Speaker. *Methodologies for GIS-based Dispersion Modeling of Air Toxics Releases from TRI-Reporting and Non-TRI Reporting Facilities: Impacts for Children's Environmental Health*. Association of Schools of Public Health Conference, Raleigh, North Carolina. 2003.
60. Invited Speaker. *Mapping for Prevention*. New England Lead Committee Annual Meeting, Fairlee, Vermont. June 2002.

INTRAMURAL (University of Michigan) INVITED PRESENTATIONS

61. Invited Speaker, University of Michigan Interdisciplinary Group Seminar (IGS), *Perinatal Exposure to Bisphenol A and Lead: Effects on Metabolic Homeostasis and the Epigenome*. November 4, 2013.
62. Invited Panelist. University of Michigan Law School, Environmental Law and Public Health Symposium. *Pollution and Children's Health*. September 27, 2013.
63. Invited Seminar. *Perinatal Exposure to Bisphenol A and Lead: Effects on Metabolic Homeostasis and the Epigenome*. Center for Human Growth and Development Seminar Series. April 2013.
64. Faculty Luncheon Invited Speaker, University of Michigan School of Public Health. *Epigenetics: Please Explain!* November 2012.
65. Invited TED-style Talk. *Epigenetics: DNA is Not Your Destiny*. Our Planet, Our Future: 125 Years of Environmental Health at Michigan Event. March 2012.
66. Invited Speaker. *Epigenetics Research for Children's Environmental Health*. Michigan Institute for Clinical and Health Research (MICHR) Children's Initiative Seminar Series. September 2011.

67. Invited Seminar. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. Center for Human Growth and Development. February 2011.
68. Invited Lecture. *Epigenetics: The New Genetics of Toxicology*. Department of Human Genetics Seminar Series. February 2011.
69. Invited Lecture. *Bisphenol A: From Epigenetics to Epigenomics*. Society of Biology Students. January 2010.
70. Invited Seminar Speaker. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. Reproductive Sciences Program. September 2009.
71. Invited Seminar Speaker. *Environmental Epigenetics: The New Genetics of Toxicology*. Department of Pharmacology. October 2009.
72. Invited Seminar Speaker. *Epigenetic Gene Regulation: The New Genetics of Toxicology*. Epigenetics Research Monthly Seminar, Ann Arbor, Michigan. March 2009.
73. Invited Speaker. *Epigenetic Gene Regulation: Linking Early Developmental Environment to Adult Disease*. Michigan Metabolomics and Obesity Center (MMOC) Annual Meeting, Ann Arbor, Michigan. October 2008.

TEACHING

University of Michigan

EHS 660: Genomics and Epigenomics in Environmental Health (3 credits)

EHS 660 Environmental Epigenetics and Public Health (2 credits)

Role: Co-Instructor with L. Rozek, W 2010, 2011

Role: Primary Instructor, W 2012, 2013, 2014

EHS 796.6: When the Scientist Presents (1 credit)

Role: Primary Instructor, W 2012

EHS 801: Research and Communication in the Environmental Health Sciences (2 credits)

Role: Co-Instructor with N. Basu, F 2012

Role: Primary Instructor, F 2013

EHS 601: Foundations in Environmental Health Sciences (3 credits)

Role: Course Instructor 2013 - present; Guest Lecturer, F 2011

EHS 697 Epigenetics Reading Group (1 credit)

Role: Co-Instructor with L. Rozek, W 2009

Anatomy/Physiology 541 or Psychology 532: Mammalian Reproductive Endocrinology (4 credits)

Role: Co-Instructor, W 2010-2011

EHS 688 Topics in Environmental Health (1 credit)

Role: Guest Lecturer, F 2008, 2010, 2012

EHS 504 Genes and the Environment (2 credits)

Role: Guest Lecturer, W 2009-2012

EHS 608: Environmental Epidemiology (3 credits)

Role: Guest Lecturer, W 2009-2012

HBHE 669: Genetics, Health Behavior, & Health Education (3 credits)

Role: Guest Lecturer, W 2011

EHS 506: Principles of Toxicology (3 Credits)
Role: Guest Lecturer, F 2011, 2012, 2013

Cancer Epidemiology Education in Special Populations (CEESP)
Epigenetics and Environmental Carcinogenesis
Role: Module Developer, 2011-2012

EPID 515: Genetics in Public Health Epidemiology (3 Credits)
Role: Guest Lecturer, F 2012, 2013

Psychology 437: Endocrine Disruptors (3 Credits)
Role: Guest Lecture W 2013, F 2013

Other Teaching

2002 - 2003	Teaching Assistant, Risk Assessment (Harvard School of Public Health)
2005 - 2006	Teaching Assistant, Cell Biology and Genetics (Duke University)
2007	Participant, Preparing Future Faculty Teaching Course (Duke University)
2009	Short Course Instructor, Genomics (University of Texas School of Public Health)
2012 – present	Responsible Conduct of Research Seminar (RCRS)

MEDIA and PRESS, SELECTED

July 30, 2007 *Nova Science Now*. “A Tale of Two Mice.”
<http://www.pbs.org/wgbh/nova/body/epigenetic-mice.html>

December 4, 2009 WNYC Public Radio, *The Leonard Lopate Show*, “Epigenetics: Please Explain.”
<http://www.wnyc.org/shows/lopat/2009/dec/04/please-explain-epigenetics/>

April 1, 2010 *Washingtonian Magazine*, “A Test That Can Help You Lose Weight? Scientists are discovering more about the relationship among genes, diet, and health.”

May 3, 2010 *LA Times*, “DNA Referees” & “Can you Master Your Own Epigenetics?”

July 30, 2011 *Science News*, “BPA makes male mice less macho: Exposures in the womb or during adolescence can erase some masculine behavior.”

October 1, 2011 *NIEHS Environmental Factor*, “Women Scientists Shine at NC SOT Meeting.”
<http://www.niehs.nih.gov/news/newsletter/2011/october/science-meeting/>

April 6, 2012, *Capital News Service*, “Health Debate Rages On But BPA Still Lines Cans.”

April 13, 2012, U-M Press Release, “Changes in genetic function in the brain linked to Alzheimer's.”
<http://www.ns.umich.edu/new/releases/20348-changes-in-genetic-function-in-the-brain-linked-to-alzheimer-s>

May 7, 2012, *Michigan Daily*, “School of Public Health finds ground breaking Alzheimer's discovery.”
<http://www.michigandaily.com/news/school-public-health-comes-out-ground-breaking-alzheimers-discovery>

November 2012, Film interview for BBC’s *Dara O Briain’s Science Club*.

November 6, 2012, *Science News*, “A little radiation is good for mice.”
http://www.sciencenews.org/view/generic/id/346280/description/A_little_radiation_is_good_for_mice

November 13, 2012, NIEHS Global Environmental Health newsletter, “Endocrine Disruptors in Egyptian Girls.”
http://www.niehs.nih.gov/research/programs/geh/geh_newsletter/archive2012/spotlight/index.cfm

November 21, 2012, Alzheimer Research Forum, “Epigenetic Changes in Alzheimer’s and Cognitive Decline.” <http://www.alzforum.org/new/detail.asp?id=3328>

December 3, 2012, UM Press Release; U.S. News and World Report “U-M study shows BPA exposure in fetal livers.” <http://www.ns.umich.edu/new/multimedia/videos/21011-u-m-study-shows-bpa-exposure-in-fetal-livers>

December 6, 2012, Radio Interview for WILS 1320, Capital City Recap.
<http://1320wils.com/assets/files/12-5-12%20Dana%20Dolinoy.mp3>

January 24, 2013, UM Press and Video Release; University Record, “Female mice exposed to BPA by mothers show unexpected characteristics.” <http://www.ns.umich.edu/new/multimedia/videos/21126-female-mice-exposed-to-bpa-by-mothers-show-unexpected-characteristics>

April 18, 2013, Environmental Health News, “BPA levels in fetal livers higher than adult exposures.” <http://www.environmentalhealthnews.org/ehs/newscience/2012/12/2013-0219-fetal-bpa-exceeds-adult-exposure>

July 2013, Center for Science in the Public Interest Nutrition Action Health Letter, “Epigenetics: It’s what turns you on...and off.” <http://www.cspinet.org/nah/pdfs/article-epigenetics.pdf>

October 1, 2013, Environmental Health Perspectives, “Uncertain Inheritance: Transgenerational Effects of Environmental Exposures.” <http://ehp.niehs.nih.gov/121-a298/>

October 2, 2013, Epigenie, “Get the Lead Out of Your Epigenome.” <http://epigenie.com/get-the-lead-out-of-your-epigenome/>

February 11, 2014, The Environment Report