

Justin A. Colacino
Curriculum Vitae

CONTACT INFORMATION

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EDUCATION

2009 - 2014 The University of Michigan School of Public Health
Ph.D. Environmental Health Sciences
Dissertation: Application of genomic and epigenomic methods to understand
environmental and dietary factors in carcinogenesis.
Adviser: Laura Rozek, PhD

2010 - 2014 The University of Michigan
Master of Statistics

2007 – 2009 The University of Texas School of Public Health at Dallas
Master of Public Health
Thesis: Dietary intake patterns and associations with polybrominated diphenyl
ether (PBDE) and phthalate body burdens.
Adviser: Arnold Schecter, MD MPH

2000-2005 The University of Texas at Austin
B.S. Biochemistry

ACADEMIC APPOINTMENTS

04/2020 – Present Assistant Professor, Program in the Environment, University of
Michigan College of Literature, Sciences, and the Arts

06/2019 – Present Co-Director for Career Development, University of Michigan Lifestage
Environmental Exposures and Disease Core Center (NIEHS P30
Center)

05/2018 – Present Faculty affiliate, University of Michigan Center for Computational
Medicine and Bioinformatics

04/2018 – Present John G. Searle Assistant Professor of Environmental Health
Sciences, University of Michigan School of Public Health

10/2017 – Present Member, University of Michigan Green Life Sciences Initiative

01/2016 – Present Assistant Professor, Department of Nutritional Sciences, University of
Michigan School of Public Health

01/2016 – Present Assistant Professor, Department of Environmental Health Sciences,
University of Michigan School of Public Health

02/2015 – Present Member, University of Michigan Lifestage Environmental Exposures
and Disease Core Center (NIEHS P30 Center)

02/2015 – 12/2015 Research Assistant Professor, Department of Nutritional Sciences,
University of Michigan School of Public Health

09/2014 – Present	Member, University of Michigan Rogel Cancer Center
09/2014 – 12/2015	Research Assistant Professor, Department of Environmental Health Sciences, University of Michigan School of Public Health

HONORS AND AWARDS

2018	University of Michigan Rogel Cancer Center Forbes Senior Scholar
2018	National Institute of Environmental Health Sciences Outstanding New Environmental Scientist (ONES) Awardee
2016-17	Golden Apple Award nominee
09/2013 – 08/2014	Rackham Predoctoral Fellowship University of Michigan Rackham Graduate School
05/2013	University of Michigan Department of Environmental Health Sciences Chair's Award
09/2011 - 08/2013	Trainee, Genome Science Training Program National Human Genome Research Institute (T32 HG00040; PI: Boehnke)
09/2009 – 9/2011	Trainee, Environmental Toxicology and Epidemiology Training Grant National Institute of Environmental Health Sciences (T32 ES007062; PI: Loch- Caruso)
09/2008 – 9/2009	Public Health Traineeship Grant United States Department of Health and Human Services

PEER-REVIEWED PUBLICATIONS (>2600 total citations, Google Scholar h-index = 27)

1. Thong T[^], *, Wang Y*, Brooks MD, Lee C[^], Scott C, Balzano L, Wicha MS, **Colacino JA**†. Hybrid stem cell states: Insights into the relationship between mammary development and breast cancer using single-cell transcriptomics. *Frontiers in Cell and Developmental Biology*; doi: 10.3389/fcell.2020.00288 (2020)
2. Nguyen V[^], Kahana A[^], Heidt J[^], Polemi K[^], Kvasnicka J, Jolliet O, **Colacino JA**†. A comprehensive analysis of racial disparities in chemical biomarker concentrations in United States women, 1999-2014. *Environment International*; doi: 10.1016/j.envint.2020.105496 (2020)
3. Malloy MA[^], Kochmanski JJ, Jones TR, **Colacino JA**, Goodrich JM, Dolinoy DC, Svoboda LK. Perinatal Bisphenol A Exposure and Reprogramming of Imprinted Gene Expression in the Adult Mouse Brain. *Frontiers in Genetics*; doi: 10.3389/fgene.2019.00951 (2019) PMID: PMC6796247
4. Thong T[^], Forté CA[^], Hill EM[^], **Colacino JA**†. Environmental exposures, stem cells, and cancer. *Pharmacology and Therapeutics*; doi: 10.1016/j.pharmthera.2019.107398. (2019)
5. Gonzalez T[^], Rae JM, **Colacino JA**†. Implications of Environmental Estrogens on Breast Cancer Treatment and Progression. *Toxicology*; doi: <https://doi.org/10.1016/j.tox.2019.03.014>. (2019)
6. Bakulski K, Dou J, Lin N, London S, **Colacino JA**. DNA methylation signature of smoking in lung cancer is enriched for exposure signatures in newborn and adult blood. *Scientific Reports*; 9:4576 (2019). PMID: PMC6418160
7. Hill EM[^], Esper RM, Simon RB, Aslam MN, Jiang Y, Dame MK, McClintock SD, **Colacino JA**, Djuric Z, Wicha MS, Smith WL, Brenner DE. Dietary polyunsaturated fatty acids modulate the adipose secretome to influence mammary stem cell self-renewal. *Journal of Nutritional Biochemistry*; 71:45-53. (2019)
8. Moynihan M[^], Tellez-Rojo MM, **Colacino JA**, Jones AD, Song PX, Cantoral A, Mercado-Garcia A, Peterson K. Prenatal cadmium exposure is negatively associated with adiposity

- in girls not boys during adolescence. *Frontiers in Public Health*; doi: <https://doi.org/10.3389/fpubh.2019.00061>. (2019) PMID: PMC6473031
9. Ramakrishnan SK, Zhang H, Ma X, Jung I, Schwartz A, Triner D, Devenport S, Das NK, Xue X, Zeng MY, Hu Y, Mortensen RM, Greenson JK, Cascalho M, Wobus CE, **Colacino JA**, Nunez G, Rui L, Shah YM. Intestinal non-canonical NF κ B signaling shapes the local and systemic immune response. *Nature Communications*; doi: <https://doi.org/10.1038/s41467-019-08581-8>. (2019). PMID: PMC6368617
 10. Triner D, Devenport SM, Ramakrishnan SK, Ma X, Frieler RA, Greenson JK, Inohara N, Nunez G, **Colacino JA**, Mortensen RM, Shah YM. Neutrophils Restrict Tumor-Associated Microbiota to Reduce Growth and Invasion of Colon Tumors in Mice. *Gastroenterology*; doi: <https://doi.org/10.1053/j.gastro.2018.12.003> (2018). PMID: PMC6441634
 11. Gonzalez T[^], Rae JM, **Colacino JA**, Richardson R. Homology models of mouse and rat estrogen receptor- α ligand-binding domain created by in silico mutagenesis of a human template: molecular docking with 17 β -estradiol, diethylstilbestrol, and paraben analogs. *Computational Toxicology*; doi: <https://doi.org/10.1016/j.comtox.2018.11.003> (2018). PMID: PMC6363358
 12. Nguyen VK[^], **Colacino JA**, Arnot J, Kvasnicka J, Jolliet O. Characterization of age-based trends to identify chemical biomarkers of higher levels in children. *Environment International*; doi: <https://doi.org/10.1016/j.envint.2018.10.042> (2018). PMID: PMC6903703
 13. Schwartz A, Das N, Ramakrishnan S, Jurkovic M, Wu J, Nemeth E, Lakhal-Littleton S, **Colacino JA**, Shah Y. A Direct Liver Hepcidin-Intestinal HIF-2 α Axis Regulates Iron Absorption During Systemic Iron Deficiency and Hemochromatosis. *Journal of Clinical Investigation*; doi: <https://doi.org/10.1172/JCI122359> (2018). PMID: PMC6307944
 14. Munoz MGI, **Colacino JA**, Lewis RC, Arthur AE Meeker JD, Ferguson KK. Associations between school lunch consumption and urinary phthalate metabolite concentrations in US children and adolescents: Results from NHANES 2003-2014. *Environment International*; <https://doi.org/10.1016/j.envint.2018.09.009> (2018) PMID: PMC6221921
 15. Triner D, Castillo C, Hakim J, Xue X, Greenson JK, Nunez G, Chen GY, **Colacino JA**, Shah YM. Myc-Associated zinc finger protein regulates the pro-inflammatory response in colitis and colon cancer by regulating STAT3 signaling. *Molecular and Cellular Biology*; doi: 10.1128/MCB.00386-18. (2018) PMID: PMC6206459
 16. Rocco SA[^], Koneva, L[^], Middleton LYM[^], Thong T[^], Solanki S, Karram S[^], Nambunmee, K, Harris C, Rozek LS, Sartor MA, Shah YM, **Colacino JA**†. Cadmium exposure inhibits branching morphogenesis and causes alterations consistent with HIF-1 α inhibition in human primary breast organoids. *Toxicological Sciences*; doi: <https://doi.org/10.1093/toxsci/kfy112> (2018) PMID: PMC6061678
 17. Tsai YH, Czerwinski M, Wu A, Dame MK, Attili D, Hill E, **Colacino JA**, Nowacki LM, Shroyer NF, Higgins PDR, Kao JY, Spence JR. A method for establishing organoid cultures from cryogenically-preserved human biopsy tissue. *Cellular and Molecular Gastroenterology and Hepatology*; <https://doi.org/10.1016/j.jcmgh.2018.04.008> (2018) PMID: PMC6085494
 18. McClintock S, **Colacino JA**, Attili D, Dame M, Richter A, Reddy A, Basrur V, Turgeon DK, Varani J, Aslam M. Calcium-induced differentiation of human colon adenomas in enteroid culture: Calcium versus calcium in conjunction with additional trace elements. *Cancer Prevention Research*; doi: 10.1158/1940-6207.CAPR-17-0308 (2018) PMID: PMC6030430
 19. **Colacino JA**†, Azizi E, Brooks MD, Harouaka R, Fouladdel S, McDermott S, Lee M, Hill D, Madden J, Boerner J, Cote ML, Sartor MA, Rozek LS, Wicha MS†. Heterogeneity of normal human breast stem and progenitor cells as revealed by transcriptional profiling.

- Stem Cell Reports*; doi: <https://doi.org/10.1016/j.stemcr.2018.03.001>. (2018) PMID: PMC5995162
20. Virani S, Wetzel E, Puttawilbul P, Laohawiriyakamol S, Booyaphiphat P, Geater A, Kleer C, Pang J, Rentschler K, **Colacino JA**, Mendes de Leon CF, Rozek LS, Sriplung H. Religious disparity in breast cancer survival in southern Thai women. *Cancer Epidemiology*; doi: <https://doi.org/10.1016/j.canep.2018.02.007> (2018)
 21. Dame MK*, Attili D*, McClintock S, Dedhia PH, Ouilette P, Hardt O, Chin AM, Xue X, Laliberte J, Katz EL[^], Newsome GM, Hill D, Miller A, Agorku D, Altheim C, Agorku D, Bosio A, Simon B, Samuelson L, Stoerker JA, Appelman H, Varani J, Wicha MS, Brenner DE, Shah Y, Spence J, **Colacino JA**†. Identification, isolation, and characterization of human LGR5-positive colon adenoma cells. *Development*; doi: 10.1242/dev.153049. (2018) PMID: PMC5897593
 22. Wang T, Pehrsson EC, Purushotham D, Li D, Zhang B, Lawson HA, Province MA, Krapp C, Lan Y, Coarfa C, Katz TA, Tang WY, Wang Z, Biswal S, Rajapalan S, **Colacino JA**, Sartor MA, Neier K, Dolinoy D, Pinto J, Hamanaka R, Mutlu G, Patisaul HB, Aylor DL, Crawford GE, Chadwick LH, Duncan CG, Garton AE, McAllister KA, The TaRGET II Consortium, Barolomei MS, Walker CL, Tyson FL. The NIEHS TaRGET II Consortium and Environmental Epigenomics. *Nature Biotechnology*; 36:225-227 doi:10.1038/nbt.4099. (2018) PMID: PMC5991835
 23. Wu Y[^], Baylin A, **Colacino JA**†. Iron, Oxidative Stress, and $\Delta 9$ Stearoyl-CoA Desaturase Index (C16:1/C16:0): An Analysis Applying the National Health and Nutrition Examination Survey 2003-04. *Current Developments in Nutrition*; 2(1):1-8. doi: <https://doi.org/10.1093/cdn/nzx001>. (2017) PMID: PMC5998366
 24. Louie KW, Saera-Vila A, Kish PE, **Colacino JA**, Kahana A. Temporally Distinct Transcriptional Regulation of Myocyte Dedifferentiation and Myofiber Growth During Muscle Regeneration. *BMC Genomics*; Nov 9;18(1):854. doi: 10.1186/s12864-017-4236-y (2017) PMID: PMC5680785
 25. Zheng G, Fon GV, Meixner W, Creekmore A, Zong Y, Dame M, **Colacino JA**, Dedhia PH, Hong S, Wiley JW. Chronic stress and intestinal barrier dysfunction: Glucocorticoid receptor and transcription repressor HES1 regulate tight junction protein Claudin-1 promoter. *Scientific Reports*; doi:10.1038/s41598-017-04755-w (2017) PMID: PMC5495803
 26. Demanelis K, Virani S, **Colacino JA**, Ruangyuttikarn W, Nishijo M, Swaddiwudhipong W, Nambunmee K, Basu N, Rozek LS. Cadmium exposure and age-associated DNA methylation changes in non-smoking women from northern Thailand. *Environmental Epigenetics*; Volume 3, Issue 2, 1 January 2017, dvx006. (2017) PMID: PMC5804546
 27. Liu Y, Burness ML, Martin-Trevino R, Guy J, Bai S, Harouaka R, Brooks MD, Shang L, Fox A, Luther TK, Davis A, Baker TL, **Colacino JA**, Clouthier SG, Shao Z, Wicha MS, Liu S. RAD51 mediates resistance of cancer stem cells to PARP inhibition in triple-negative breast cancer. *Clinical Cancer Research*; doi: 10.1158/1078-0432.CCR-15-1348. (2016)
 28. Triner D, Xue X, Schwartz AJ, Jung I, **Colacino JA**, Shah YM. Epithelial Hypoxia-Inducible Factor 2 α Facilitates the Progression of Colon Tumors through Recruiting Neutrophils. *Molecular and Cellular Biology*; Mar 1; 37(5): e00481-16 (2016) PMID: PMC5311236
 29. Zick SM, **Colacino JA**, Cornellier M, Khabir T, Ren J, Surnow K, Djuric Z. Fatigue reduction diet in breast cancer survivors: A pilot randomized clinical trial. *Breast Cancer Research and Treatment*; 161(2):299-310. (2016). PMID: PMC5480210
 30. **Colacino JA**, McDermott SP, Sartor MA, Kakarala M, Wicha MS, Rozek LS. Transcriptomic profiling of curcumin-treated human breast stem cells identifies a role for stearoyl-coa desaturase in breast cancer prevention. *Breast Cancer Research and Treatment*; Jul;158(1):29-41. doi: 10.1007/s10549-016-3854-4. (2016) PMID: PMC5831404

31. Ferguson KK, **Colacino JA**, Lewis RC, Meeker JD. Personal care product use among adults in NHANES: associations between urinary phthalate metabolites and phenols and use of mouthwash and sunscreen. *Journal of Exposure Science and Environmental Epidemiology*; doi: 10.1038/jes.2016.27. (2016) PMID: PMC5376243
32. Virani S, Bellile E, Bradford CR, Carey TE, Chepeha DB, **Colacino JA**, Hellman J, McHugh JB, Peterson L, Sartor MA, Taylor JMG, Walline HM, Wolf GT, Rozek LS. NDN and CD1A are Novel Prognostic Methylation Markers and Differ by HPV Status in Patients with Head and Neck Squamous Carcinoma. *BMC Cancer*; Oct 30;15:825. (2015) PMID: PMC4628358
33. Sjödin A, Schechter A, Jones R, Wong LY, **Colacino JA**, Malk-Bass N, McDonald E, DiPietro E, Hodge C, Zhang Y, Anderson S, Harry D, McClure C, Turner W, Calafat AM. Polybrominated Diphenyl Ethers, 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-153), and p,p'-Dichlorodiphenyldichloroethylene (p,p'-DDE) Concentrations in Sera Collected in 2009 from Texas Children. *Environmental Science and Technology*; Jul 15; 48(14):8196-202 (2014). PMID: PMC5152615
34. Ramnath N, Nadal E, Jeon CK, Sandoval J, **Colacino JA**, Rozek LS, Christensen PJ, Esteller M, Beer DG, Kim SH. Epigenetic regulation of vitamin D metabolism in human lung adenocarcinoma. *Journal of Thoracic Oncology*; 9(4): 473-482. (2014) PMID: PMC3994461
35. Darr OA*, **Colacino JA***, Tang AL, McHugh JB, Bellile EL, Bradford CR, Prince MP, Chepeha DB, Rozek LS, Moyer JS. Epigenetic alterations in metastatic cutaneous carcinoma. *Head and Neck*; Doi: 10.1002/hed.23701 (2014) PMID: PMC4183742
36. **Colacino JA**, Arthur AE, Ferguson KK, Rozek LS. Dietary antioxidant and anti-inflammatory intake modifies the effect of cadmium exposure on markers of systemic inflammation and oxidative stress. *Environmental Research*; 131:6-12. (2014) PMID: PMC4057047
37. Kim JH, Rozek LS, Sartor MA, Soliman AS, Hablas A, Seifeldin IA, Calafat AM, **Colacino JA**, Weinhouse C, Nahar MS, Dolinoy DC. Bisphenol A associated epigenomic changes in prepubescent girls: A cross-sectional study in Gharbiah, Egypt. *Environmental Health*; doi: 10.1186/1476-069X-12-33 (2013) PMID: PMC3655072
38. Schechter A, Lorber M, Guo Y, Wu Q, Yun SH, Kannan K, Miller J, Hommel M, Imran N, Hynan LS, Cheng D, **Colacino JA**, Birnbaum LS. Phthalate levels and dietary exposure from Albany, New York, U.S. Food. *Environmental Health Perspectives*; doi: 10.1289/ehp.1206367 (2013). PMID: PMC3620091
39. Koeppe ES, Ferguson KK, **Colacino JA**, Meeker JD. Relationship between urinary triclosan and paraben concentrations and serum thyroid measures in NHANES 2007-2008. *Science of the Total Environment*; 445-446:299-305 (2013) PMID: PMC3572338
40. **Colacino JA**, Dolinoy DC, Duffy S, Sartor MA, Chepeha DB, Bradford CR, McHugh J, Patel D, Walline HM, Bellile E, Terrell JE, Stoerker JA, Taylor JMG, Carey TE, Wolf G, Rozek LS. Comprehensive analysis of methylation in head and neck squamous cell carcinoma indicates differences by survival and clinicopathologic characteristics. *PLoS ONE*; 8(1): e54742. Doi:10.1371/journal.pone.0054742. (2013) PMID: PMC3554647
41. **Colacino JA***, Arthur AE*, Duffy S, Dolinoy DC, Terrell J, Sartor M, Chepeha D, McHugh J, Wolf G, Carey T, Peterson K, Rozek LS. Pretreatment dietary intake is associated with tumor suppressor DNA methylation in head and neck squamous cell carcinomas. *Epigenetics*; 7(8):883-91 (2012). PMID: PMC3427284
42. Schechter A, Szabo DT, Malik-Bass N, Paepke O, **Colacino JA**, Hynan LS, Gent T, Harris TR, Malla S, Birnbaum LS. Hexabromocyclododecane (HBCD) Stereoisomers in U.S. Food from Dallas, Texas. *Environmental Health Perspectives*; doi:10.1289/ehp.1204993. (2012) PMID: PMC3440131
43. Patel D, Rozek LS, **Colacino JA**, Van Zomeren-Dohm A, Ruffin M, Unger E, Dolinoy DC, Swan D, Onyekwuluje J, DeGraffinreid C, Paskett E. Patterns of cellular and HPV16

- methylation as biomarkers for cervical neoplasia. *Journal of Virological Methods*; 184(1):84-92. (2012) PMID: PMC3396790
44. Nahar MS, Soliman AS, **Colacino JA**, Calafat AM, Battige K, Hablas A, Seifeldin IA, Dolinoy DC, Rozek LS. Urinary Bisphenol A Concentrations in Premenstrual Females from Rural and Urban Egypt: A Pilot Study. *Environmental Health*; 11:20 (2012) PMID: PMC3361671
 45. Virani S, **Colacino JA**, Kim J, Rozek LS. Cancer Epigenetics: A Brief Review. *Institute for Laboratory Animal Research Journal*; 53(3-4):359-69. (2012) PMID: PMC4021643
 46. Schechter A, Malik-Bass N, Calafat AM, Kato K, **Colacino JA**, Harris TR, Hynan LS, Malla S, Gent T, Birnbaum LS. Polyfluoroalkyl Compounds (PFCs) in Texas Children from Birth through 12 Years of Age. *Environmental Health Perspectives*; doi:10.1289/ehp.1104325. (2011) PMID: PMC3339466
 47. **Colacino JA**, Soliman A, Calafat A, Nahar MS, Van Zomeren-Dohm A, Seifeldin I, Hablas A, Rozek LS, Dolinoy DC. Exposure to phthalates among premenstrual girls from rural and urban, Gharbiah, Egypt: An exposure assessment pilot study. *Environmental Health*; 10:40. (2011) PMID: PMC3112381
 48. Sartor M, Dolinoy DC, Jones T, **Colacino JA**, Prince ME, Carey T, Rozek LS. Genome-wide methylation and expression differences in HPV(-) and HPV(+) squamous cell carcinoma cell lines point to varying mechanisms of carcinogenesis. *Epigenetics*; 6(6):777-81. (2011) PMID: PMC3142368
 49. Schechter A, Smith S, Haffner D, **Colacino JA**, Patel K, Harris TR, Malik N, Opel M, Pöpke O. Does flying in commercial airplanes present a threat of PBDE exposure? *Journal of Occupational and Environmental Medicine*; 52(12):1230-5. (2010)
 50. **Colacino JA**†, Harris TR, Schechter A. Dietary intake is associated with phthalate body burden in a nationally representative sample. *Environmental Health Perspectives*; doi:10.1289/ehp.0901712. (2010) PMID: PMC2920922
 51. Schechter A, **Colacino JA**, Haffner D, Opel M, Pöpke O, Birnbaum LS. Perfluorinated compounds, polychlorinated biphenyls, and organochlorine pesticide contamination in composite food samples from the United States. *Environmental Health Perspectives*; doi:10.1289/ehp.0901347. (2010)
 52. Schechter A, **Colacino JA**, Sjödin A, Needham L, Birnbaum LS. Partitioning of PBDEs in serum and milk from the same mothers. *Chemosphere*; 78(10):1279-84 (2010)
 53. Schechter A, Haffner D, **Colacino JA**, Patel K, Opel M, Pöpke O, Birnbaum LS. Polybrominated diphenyl ethers (PBDEs) and hexabromocyclodecane (HBCD) in Composite U.S. food samples. *Environmental Health Perspectives*; 118(3): doi:10.1289/ehp.0901345. (2010) PMID: PMC2854763
 54. Schechter A, **Colacino JA**, Kannan K, Yun SH, Haffner D, Harris TR, Pöpke O, Birnbaum LS. Polybrominated diphenyl ether levels in foodstuffs from three locations in the United States. *Toxicology & Applied Pharmacology*; 243(2):217-24. (2010)
 55. Schechter A, **Colacino JA**, Shah N, Pöpke O, Patel K, Birnbaum LS. Indoor and Outdoor Air PBDE Levels in a Southwestern U.S. City. *Toxicological & Environmental Chemistry*; 92(6):1053-1063. (2010)
 56. Schechter A, **Colacino JA**, Harris TR, Shah N, Brummitt SI. A Newly Recognized Occupational Hazard for U.S. Electronic Recycling Facility Workers: Polybrominated Diphenyl Ethers (PBDEs). *Journal of Occupational & Environmental Medicine*; 51(4):435-40. (2009)
 57. Schechter A, Shah N, **Colacino JA**, Sawant M, Brummitt SI, Harris TR, Lohmann N, Pöpke O. Polybrominated diphenyl ether (PBDE) levels in fruit, vegetables, and food of vegetable origin purchased in the United States. *Toxicological & Environmental Chemistry*; 91(4): 643-52. (2009)

58. Schechter A, Shah N, **Colacino JA**, Brummitt SI, Ramakrishnan V, Harris TR, Pöpke O. PBDEs in U.S. and German clothes dryer lint: A potential source of indoor contamination and exposure. *Chemosphere*; 75(5): 623-628. (2009)
59. Schechter A, **Colacino JA**, Shah N, Harris TR, Pöpke O. Limitations in the use of potassium dichromate as a blood preservative for the analysis of organohalogenated compounds: two month results. *Chemosphere*; 74(3): 448-52. (2009)
60. Demizu Y, Sasaki R, Trachootham D, Pelicano H, **Colacino JA**, Liu J, Huang P. Alterations of cellular redox state during NNK-induced malignant transformation and resistance to radiation. *Antioxidants & Redox Signaling*; 10(5): 951-962. (2008) PMID: PMC2717788
61. Yang G, Rosen DG, **Colacino JA**, Mercado-Uribe I, Liu J. Disruption of the retinoblastoma pathway by small interfering RNA and ectopic expression of the catalytic subunit of telomerase lead to immortalization of human ovarian surface epithelial cells. *Oncogene*; 26(10): 1492-1498. (2007)
62. Yang G, Rosen DG, Mercado-Uribe I, **Colacino JA**, Mills GB, Bast RC, Zhou C, Liu J. Knockdown of p53 combined with expression of the catalytic subunit of telomerase is sufficient to immortalize primary human ovarian surface epithelial cells. *Carcinogenesis*; 28(1): 174-182. (2007)
63. Yang G, Rosen DG, Zhang Z, Bast RC, Mills GB, **Colacino JA**, Mercado-Uribe I, Liu J. The chemokine growth-regulated oncogene 1 (Gro-1) links RAS signaling to the senescence of stromal fibroblasts and ovarian tumorigenesis. *Proceedings of the National Academy of Sciences*; 103(44):16472-16477. (2006) PMID: PMC1637606

COMMENTARIES/SHORT ARTICLES/LETTERS TO THE EDITOR

1. Ben-Yosef O, Burns JS, **Colacino JA**, Kota DJ, Peult B. Ask the experts: Current obstacles and future developments in cell culture. *Regenerative Medicine*; <https://doi.org/10.2217/rme-2019-0029>. (2019)
2. **Colacino JA**[†]. 3D Human Tissue Culture: Modeling Environmental Effects on the Stem Cell Epigenome. *Epigenomics*; Nov;8(11):1453-1457. (2016)
3. Schechter A, Smith S, **Colacino JA**, M, Mailk N, Pöpke O, Birnbaum LS. Contamination of US butter with PBDEs from wrapping paper. *Environmental Health Perspectives*; doi:10.1289/ehp.1002604. (2010) PMID: PMC3040599
4. Schechter A, **Colacino JA**, Haffner D, Opel M, Pöpke O. Discussion of "Polybrominated diphenyl ethers in aircraft cabins – A source of human exposure?". *Chemosphere*; 78(2):206-8. (2010)
5. Schechter A, Needham L, Michalek J, Pavuk M, **Colacino JA**, Ryan JJ, Pöpke O, Birnbaum LS. Response to "Agent Orange exposure, Vietnam War veterans, and the risk of prostate cancer". *Cancer*; 115(14):3369-3371. (2009)

BOOK CHAPTERS

1. Dame MK, Huang S, Attili D, Spence JR, **Colacino JA**[†]. Identification and isolation of human LGR5+ cells using an antibody-based strategy. *Methods in Molecular Biology*; In press. (2020)
2. Schechter A, **Colacino JA**, Birnbaum LS. Dioxins: Health Effects. In: *Encyclopedia of Environmental Health*; Jerome Nriagu, ed. Elsevier. Pp. 93-101. (2011)

*- These authors contributed equally to this manuscript

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^- Colacino mentee

MANUSCRIPTS UNDER REVIEW/REVISION

1. Moynihan M[^], Zhang Z, Ettinger AS, **Colacino JA**, Marchlewicz E, Jones AD, Song PXX, Cantoral A, Hu H, Tellez-Rojo MM, Peterson KE. Interaction of prenatal and adolescent antioxidant intake and lead exposures on cardiometabolic outcomes in adolescents. Under Review.
2. Purrington KS, Holowatyj AN, Cote ML, Schwartz AG, Chaudhry H, Dyson G, **Colacino JA**, Boerner J, Bandyopadhyay S. Novel immune cell subtypes are associated with survival among African American women with triple-negative breast cancer. Under Review.
3. Liu Y, Guy J, **Colacino JA**, Harouaka R, Brooks MD, Shang L, Harvey K, Luther TK, Kerr K, Hernandez-Aya L, McDermott S, Liu S, Wicha MS, Burness ML. HDAC Inhibitor Overcomes PARP Inhibitor Resistance in Triple-Negative Breast Cancer via Sensitization of Cancer Stem Cells. Under Review.
4. Mahran R[^], Pan S, **Colacino JA**, Hagrass M, Sun D, Brenner D. Cellular pharmacology of curcumin with and without piperine. Under Review.
5. Forté CA[^], **Colacino JA**, Polemi KM[^], Guytingco A, Peraino NJ, Jindaphong S, Kaviya T, Westrick J, Neitzel R, Nambunmee K. Pesticide exposure and adverse health effects associated with farm work in Northern Thailand. Under Review.
6. Wang Y, Thong T[^], Saligrama V, **Colacino JA**, Balzano L, Scott C. A gene filter for comparative analysis of single-cell RNA-sequencing trajectory datasets. Under Review.
7. Varma U[^], **Colacino JA**, Gilbert A. Information Theoretic Feature Selection Methods for Single Cell RNA-Sequencing. Under Review.
8. Svoboda LK, Neier K, Cavalcante R, Tsai Z, Jones TR, Liu S, Goodrich JM, Lalancette C, **Colacino JA**, Sartor MA, Dolinoy DC. Perinatal exposure to lead results in altered DNA methylation in adult mouse liver and blood: Implications for target versus surrogate tissue use in environmental epigenetics. Under Revision.
9. Bakulski KM, Dou JF, Thompson RC, Lee C[^], Middleton LY[^], Perera BPU, Ferris SP, Jones TR, Neier K, Zhou X, Sartor MA, Hammoud SS, Dolinoy DC, **Colacino JA**[†]. Single cell analysis of the effects of developmental lead (Pb) exposure on the hippocampus. Under Revision.
10. Zick SM, Murphy SL, **Colacino JA**. Association of Chronic Pain with Diet Quality. Under Revision.
11. Campbell KA[^], **Colacino JA**, Bakulski KM. Cell types in environmental epigenetic studies: Biological and epidemiological frameworks. Under Review.
12. Zhu Y, Shang L, **Colacino JA**, Harouaka R, Lin C, Brooks MD, Luo M, Qiu Y, Pan X, Lee M, Sun D, Wicha MS. A SPEN Complex Serves as a Scaffold to Coordinate Multiple Epigenetic Regulatory Mechanisms in Breast Cancer Stem Cells. Under Review.
13. Svoboda LK, Wang K, Cavalcante R, Neier K, **Colacino JA**, Sartor MA, Dolinoy DC. Sex-specific programming of cardiac DNA methylation by developmental phthalate exposure. Under Review.
14. Wang K, Liu S[^], Svoboda LK, Rygiel C, Neier K, **Colacino JA**, Dolinoy DC, Sartor MA. Tissue- and sex-specific DNA methylation changes in mice perinatally exposed to lead. Under Review.

RESEARCH SUPPORT

Ongoing Research Support

Developmental exposures, stem cell reprogramming, and breast cancer disparities

NIEHS/NIH ONES R01 ES028802

Colacino (PI)

Role: Principal Investigator

Annual Directs: \$300,000 Total Directs: \$1,499,988

1/1/18-12/31/22

4.5 Academic Months and 1.5 Summer Months

The overall goal of this project is to use single cell transcriptomics and primary tissue culture to define how environmental exposures and epigenetic reprogramming during stem cell

differentiation drive disparities in triple negative breast cancer between European American and African American women.

Perinatal Exposures, Tissue- and Cell-Specific Epigenomics and Lifecourse Outcomes

NIH/NIEHS U01 ES026697

Dolinoy (PI)

Role: Co-Investigator

Annual Directs: \$400,000 Total Directs: \$2,388,334

04/01/2016 – 03/31/2020

0.9 Academic Months and 0.3 Summer Months

Many epigenetic epidemiology analyses are performed using biologically available DNA (e.g. blood, saliva, stool), which serve as proxies for epigenetic status in tissues targeted by exposures. While methylation of peripheral DNA may not mirror that of all target tissues, it has been used as a biomarker and associated with several cancers, disease states, and environmental exposures. Thus, the goal of our Target II U01 application is to utilize an established mouse model of environmental exposures to evaluate tissue- and cell-specific epigenetic alterations associated with perinatal exposures and disease outcomes.

Michigan Center on Lifestage Environmental Exposures and Disease (M-LEEd)

NIEHS P30 ES017885

Dolinoy (PI)

Role: Co-Director of Career Development

Annual Directs: \$1,045,140 Total Directs: \$4,130,950

07/01/11-06/30/21

0.45 Academic Months and 0.15 Summer Months

Our mission is to promote translational research using novel multi-disciplinary approaches to better understand the impact of environmental exposures on risk of disease through mechanisms involving epigenetic modifications during vulnerable stages of life.

Single Cell Spatial Analysis Program

University of Michigan Biosciences Research Initiative

Keller (Lead PI)

Role: Co-Principal Investigator, Assistant Director of Faculty Development

Total Directs: \$ 7,052,917

1/1/20 – 12/31/24

0.11 Academic Months and 0.04 Summer Months

The goal of this program is to develop the University of Michigan into a global leader in applying high-resolution spatially-resolved multi-omic analysis of cells within tissues to drive next-generation solutions in biology and human health.

Adipogenic chemicals, adipose inflammation, and the dissemination of breast cancer metastases

NIEHS P30 Pilot Project

Colacino (PI)

Role: Principal Investigator

Annual Directs: \$30,000 Total Award:

\$30,000

7/1/19-5/31/20

0 Academic, 0 Summer Months

The goal of this project is to understand how high fat diet or chemicals associated with obesity alter the stromal microenvironment, promoting breast cancer cell dissemination and metastasis.

Targeting Circulating and Disseminated Tumor Cells from Pre-Invasive Breast Tumors

University of Michigan Forbes Institute for Cancer Discovery Pilot Project

Colacino (PI)

Role: Principal Investigator

Annual Directs: \$50,000

Total Award:

\$100,000

5/15/18 – 5/14/20

0 Academic, 0 Summer Months

The goal of this project is to detect circulating tumor cells in patients with breast ductal carcinomas *in situ* to test the hypothesis that dissemination of stem-like cells precedes local invasion.

Pending Support

Sex-specific risk for psychiatric disorders from perinatal lead exposure: Brain region and cell type effects

NIH/NIEHS R01 (Bakulski, Colacino)

Role: Multiple Principal Investigator Annual Direct Costs: \$400,000 Total Direct Costs: \$2,000,000

09/01/2020-08/31/2025

0.9 Academic, 0.3 Summer months

To identify sex-specific consequences of perinatal lead exposure in the mouse brain by pathology, DNA methylation, hydroxymethylation, and RNA expression, including measures at the single cell level. Results from these experiments will advance our understanding of how early life lead exposures affect the brain, with potential implications for lifelong impacts psychiatric disease.

Submitted: 12/2019

Targeting “stemness” for cancer prevention and therapy

NIH/NCI SPORE P50 (Wicha, Brenner, Nor)

Role: Project 1 Multi PI Annual Direct Costs: \$1,520,000 Total Direct Costs: \$7,600,000

09/01/2020-08/31/2025

0.59 Academic Months, 0.16 Summer months

The University of Michigan Rogel Cancer Center Specialized Program of Research Excellence (SPORE) targets stem-like cells that drive the development and progression of cancer. The SPORE improves public health by reducing death and suffering from common, high incidence and mortality cancers through developing and testing new strategies designed to reduce the numbers of stem-like cells to prevent and treat cancers from many organ systems.

Submitted: 1/2020

Environmental Epigenomics and Precision Environmental Health

NIH/NIEHS R35 (Dolinoy)

Role: Co-Investigator

Annual Direct Costs: \$600,000 Total Project Direct Costs: \$4,800,000

04/1/2020-03/31/2028

1.08 Academic Months, 0.36 Summer Months

To advance the understanding of the effects of perinatal exposures (e.g. metals such as lead and endocrine active compounds such as phthalates) on the epigenome and health risks and develop new tools, based on the PIWI-interacting RNA (piRNA) system to transform precision environmental health.

Submitted: 06/2019

Diversity Supplement to R01 ES028802

NIH/NIEHS R01 (Colacino)

Role: Principal Investigator Annual Direct Costs: \$58,000 Total Directs: \$114,306

06/01/2020-05/31/2022

0 Academic Months, 0 Calendar Months

The goal of this diversity supplement to “Developmental exposures, stem cell reprogramming, and breast cancer disparities” is to provide training and support for Vy Nguyen, a Bioinformatics PhD student, who will use machine learning techniques to identify common chemical mixtures

with exposures more common in African American women and test whether these mixtures are associated with increased risk of mortality.

Submitted: 06/2019

Elucidating Epigenetic Mechanisms of Cellular Cadmium Toxicity

NIH/NIEHS R21 (Lombard)

Role: Consultant Annual Direct Costs: \$125,000 Total Directs: \$275,000

09/01/2020 – 08/31/2020

0 Academic Months, 0 Calendar Months

The goal of this project is to understand how epigenetic targeting drugs may modulate the effects of acute toxicity due to exposure to the heavy metal cadmium.

Submitted: 12/2019

Completed Support

Trace element supplementation to enhance calcium-mediated suppression of human colon adenoma growth

NIH/NCI R21 CA 201782

Varani (PI)

Role: Co-Investigator

Total Directs: \$275,000

1.2 Calendar Months

The objective of this R21 proposal is to determine if a multi-mineral-rich natural product derived from the red marine algae, *Lithothamnion sp*, is more effective than calcium in modulating proliferation and differentiation in primary human colon crypts.

Alteration of epigenomic reprogramming of normal human breast stem cells by cadmium

NIEHS P30 Seed Project

Colacino (PI)

Role: Principal Investigator

Total Directs: \$11,555

02/01/2017 – 3/31/2017

0.45 Academic Months and 0.15 Summer Months

The objective of this seed proposal is to investigate the effects that cadmium exposure has on the epigenetic reprogramming that occurs during normal breast stem cell differentiation.

Cellular Plasticity of Human Normal and Adenoma Colon Stem Cells

University of Michigan Cancer Center Research Grant

Colacino (PI)

Role: Principal Investigator

Total Directs: \$50,000

3/1/2016 – 2/28/2017

0 Calendar Months

The objective of this Research Grant proposal is to identify differences in cellular plasticity in populations of stem and non-stem cells isolated from primary human colon adenomas and normal colon and define the genes and pathways that mediate this plasticity.

Modulation of the Intergenerational Risk of Obesity

University of Michigan Taubman Institute

Burant (PI)

Role: Co-Investigator

Total Directs: \$200,000

02/01/2017 – 1/31/2018

0.45 Academic Months and 0.15 Summer Months

This project aims to identify a cost-effective intervention to mitigate obesity-related inter-generational risk of obesity and the attendant cardiometabolic risks including type 2 diabetes (T2D) and cardiovascular disease.

Stemness as a Biological State in Cancer

University of Michigan Taubman Institute

Kahana (PI)

Role: Co-Investigator

Total Directs: \$200,000

02/01/2017 – 1/31/2018

0.45 Academic Months and 0.15 Summer Months

This project aims to develop pharmaceutical interventions to target the “stem-like” state of tumor initiating cells by using integrated epigenomics and chromatin state profiling to define the chromosomal architecture of a stem cell.

Single Cell Transcriptomics to Map the Effects of Developmental Lead Exposure on the Hippocampus

M-LEEd NIEHS P30 Pilot Project

Colacino, Bakulski (MPI)

Role: Multiple Principal Investigator

Total Directs: \$26,000

1/1/2018 – 3/31/18

This project aims to use single cell transcriptomic profiling of hippocampal cells isolated from mice exposed to lead in early life to understand the mechanism by which lead acts a developmental neurotoxicant.

Evaluating the Association between Biomarkers of Parabens and Phenol Exposure and Recurrence in ER-Positive Breast Cancer Patients

M-LEEd NIEHS P30 Rapid Response Project

Colacino (PI)

Role: Principal Investigator

Total Directs: \$3,600

This project will test the hypothesis that patients with estrogen receptor positive breast cancer who experience a recurrence have higher concentrations of parabens in their body compared to patients who do not recur.

Occupational Pesticide Exposure of Informal Farmworkers in Northern Thailand

University of Michigan Center for Occupational Health and Safety Engineering Colacino (PI)

Role: Principal Investigator

Total Directs: \$19,950

08/01/17 – 7/31/18

The goal of this project is to assess pesticide exposure, and related health effects, in an occupationally exposed cohort of informal farm workers in Chiang Rai, Thailand.

Characterizing the role of LGR5+ stem cells in colon cancer progression

University of Michigan MCubed

Colacino (PI)

Role: Co-Principal Investigator

Total Directs: \$60,000

10/01/15 – 04/29/17

0 Calendar Months

This project aims to understand the role that stem cells play in colon cancer progression.

TEACHING EXPERIENCE (Guest lectures not listed after assuming tenure track teaching load in Fall 2016)

University of Michigan

Winter 2020	Course Co-Director, ENVIRON310 (Toxicology: The Study of Environmental Chemicals and Disease)
Fall 2019	Course Director, EHS 602 (Essentials of Toxicology)
Winter 2019	Course Director, EHS 628 (Toxicology Research, Analysis, and Presentation), and Co-Course Director, NUTR657 (Nutrition, the Environment, and Cancer)
Fall 2018	Course Director, EHS 602 (Essentials of Toxicology)
Summer 2018	Group Instructor, Genomics, University of Michigan Big Data Summer Institute
Winter 2018	Co-Course Director, NUTR657 (Nutrition, the Environment, and Cancer)
Fall 2017	Course Director, EHS 602 (Essentials of Toxicology) and Co-Course Director, PUBHLTH 610 (Introduction to Public Health)
Winter 2017	Course Director, EHS 628 (Toxicology Research, Analysis, and Presentation)
Fall 2016	Course Director, EHS 602 (Essentials of Toxicology) and Co-Course Director, PUBHLTH 610 (Introduction to Public Health)
Winter 2016	Multiple Lectures in PUBHLTH305 (The Environment and Human Health, Dr. Laura Rozek) – “Exposure Assessment” and “Environmental Epidemiology”, Lecture in NUTR688 (Research Topics in Nutritional Sciences, Dr. Peter Mancuso) – “Environmental and Dietary Effects on Stem Cells – New Targets for Cancer Prevention”, Lecture in ENVIRON310 (Environmental Chemicals and Disease, Dr. Rita Loch-Caruso) – “Environmental Carcinogenesis”, Lecture in EPID621 (Cancer Epidemiology, Dr. Alison Mondul) – “Breast Cancer Epidemiology”
Fall 2015	2 Lectures in EHS602 (Principles of Toxicology, Dr. Rudy Richardson) – “Carcinogenesis”, Lecture in EHS604 (Professional Perspectives in Environmental Health, Dr. Olivier Jolliet) – “Inflammation and Oxidative Stress Biomarkers in NHANES”, Lecture in EHS500 (Principles of Environmental Health Sciences, Dr. Laura Rozek and Dr. Richard Neitzel) – “Introduction to Toxicology”
Winter 2015	Course Director for EHS796 – “Responsible Conduct of Research and Scholarship (RCRS)” and Lecture in ENVIRON310 (Environmental Chemicals and Disease, Dr. Rita Loch-Caruso) – “Environmental Carcinogenesis”
Fall 2014	Lecture in EHS500 (Principles of Environmental Health Sciences, Dr. Laura Rozek and Dr. Richard Neitzel) – “Introduction to Toxicology”, Course Director for EHS796 – “Responsible Conduct of Research and Scholarship (RCRS)”, 2 Lectures in EHS506 (Principles of Toxicology, Dr. Rudy Richardson) – “Carcinogenesis”
Winter 2014	Lecture in ENVIRON310 (Environmental Chemicals and Disease, Dr. Rita Loch-Caruso) – “Windows of Susceptibility to Breast Cancer, Stem Cells, and the Environment”
Winter 2012	Lecture in ENVIRON310 (Environmental Chemicals and Disease, Dr. Rita Loch-Caruso) – “Windows of Susceptibility to Breast Cancer, Stem Cells, and the Environment”

UMSPH ENVIRONMENTAL HEALTH SCIENCES DEPARTMENTAL SERVICE

2019- Environmental Health Sciences Faculty Search Committee
 2019- Graduate Chair and Chair of the Academic Degree Programs Committee
 2018-2019 Academic Degrees Programs Committee, Co-Chair for MS Program
 2018, Winter Doctoral Qualifying Exam Committee, Member
 2018, Winter Admissions Committee, Member
 2016-17 Recruiting Committee, Member
 2016-17 Curriculum Committee, Member
 2016, Winter Doctoral Qualifying Exam Committee, Member

UM SCHOOL OF PUBLIC HEALTH SERVICE

2019 - Junior Faculty Advisory Board Executive Committee, Founding Member
 2017 - University of Michigan School of Public Health Research Council, Member

OTHER UNIVERSITY OF MICHIGAN SERVICE

2019- University of Michigan Forbes Institute for Cancer Discovery Scientific Advisory Board Member
 2019- University of Michigan Center for Lifestage Environmental Exposures and Disease (M-LEEA; NIEHS P30 center), Co-Director for Career Development
 2019- University of Michigan Biological Sciences Scholars Program (BSSP), Search Committee
 2019- University of Michigan Provost Faculty Advisory Board, Member
 2019 Rogel Cancer Center Cancer Control and Population Sciences Fall Symposium Planning Committee, Member
 2018- Department of Computational Medicine and Bioinformatics Admissions, Committee Member
 2017- Environmental Toxicology and Epidemiology Training Grant (NIEHS T32) Executive Committee

PROFESSIONAL SERVICE

Editorial Review Board

Environmental Epigenetics (2015 – Present)

Editorial Board

Cancer Research (2016 – 2019), *Toxicological Sciences* (2017 – Present), *Epigenomes* (2018 - Present)

Manuscript Peer Review

Annals of Human Biology, Cancer, Cancer Research, Chemosphere, Environmental Health Perspectives, Environment International, Environmental and Molecular Mutagenesis, Environmental Research, Epigenetics, Food and Chemical Toxicology, International Journal of Cancer, International Journal of Obesity, Journal of Exposure Science and Environmental Epidemiology, Journal of Nutritional Biochemistry, Lung Cancer, Molecular Carcinogenesis, Oncotarget, PLOS Genetics, Science of the Total Environment, Toxicology and Applied Pharmacology, Toxicological Sciences, Toxicology In Vitro

Grant Review

03/2020 NIH - ZRG1 OBT-B (55) R - PAR Panel: Cancer Health Disparities
 03/2020 University of Michigan Forbes Institute for Cancer Discovery Proposal Review
 09/2019 Ad Hoc Reviewer, Sinergia Funding Instrument, Swiss National Science Foundation

06/2019	NIH ZRG1 IMM-K (50) US-Brazil Collaborative Research Program study section, Reviewer
05/2019	University of Michigan Office of Research Pilot Program Reviewer
04/2019	NIH - ZRG1 OBT-B (55) R - PAR Panel: Cancer Health Disparities
10/2018	University of Michigan, Michigan Institute for Clinical and Health Research Postdoctoral Translational Scholars Program
07/2018	University of Michigan Rogel Cancer Center – Cancer Control: Big Data and Cancer Pilot Grants Program
06/2018	NIH/NIEHS ZES1-LWJ-S (R2) - “Review of applications addressing population-based model organisms in a GxE context and predisposition to complex diseases”
05/2018	DARPA – “Epigenetic Characterization and Observation (ECHO)” Grant program, Subject Matter Expert
10/2017	NIH SIEE Study Section, Ad Hoc Reviewer (Invited Early Career Reviewer)
2016-	<i>Ad hoc</i> review for University of Cincinnati Center for Environmental Genetics (NIEHS P30) Pilot Projects Program (Multiple times)
2/2015	NIH/NCI – PAR-12-039, “Small Grants Program for Cancer Epidemiology (R03)”
10/2014	<i>Ad hoc</i> review for National Science Centre of Poland – “A Funding Opportunity for Research Projects Carried out by Researchers Beginning Their Academic Career, Without Doctorate”

PROFESSIONAL MEMBERSHIPS

Member	American Association for Cancer Research Society of Toxicology American Association for the Advancement of Science
2020-	Past President, Society of Toxicology Michigan Regional Chapter
2019-20	President, Society of Toxicology Michigan Regional Chapter
2018-19	President Elect, Society of Toxicology Michigan Regional Chapter
2011-14	Society of Toxicology Stem Cell Specialty Section Graduate Student Representative
2010-2012	International Society for Environmental Epidemiology
2008-2009	American Public Health Association – Vietnam Caucus (Program Planner)

OTHER LEADERSHIP ACTIVITIES

2008 - 2009	Student Association President University of Texas School of Public Health at Dallas Responsibilities included: Representing student interests at faculty meetings, acting as a liaison between students and the administration, organizing student association meetings, planning student activities, organizing collaborations with other student and community groups, planning National Public Health Week '09.
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ADDITIONAL RESEARCH EXPERIENCE

2008 - 2009	Graduate Research Assistant The University of Texas School of Public Health at Dallas Division of Environmental and Occupational Health Sciences <i>Chemical Contamination of the US Food Supply</i> Arnold Schecter, MD MPH (PI) Pfeiffer Research Foundation
2008 - 2009	Research Assistant II The University of Texas Southwestern Medical Center at Dallas Department of Clinical Sciences <i>Facilitating Risk-Appropriate Colorectal Cancer Testing</i>

2005 - 2007 Celette Skinner, PhD (PI) NCI R01 CA122330-01
 Research Assistant I
 The University of Texas MD Anderson Cancer Center, Houston, TX
 Department of Pathology
 Pathology Core – Ovarian Cancer SPORE
 Jinsong Liu, MD PhD (PI) NCI IP50 CA83638

**CONFERENCE PRESENTATIONS (Presented by first author unless otherwise noted.
 Accepted and invited presentations cancelled due to COVID-19 are included and noted)**

1. **Colacino JA.** Epidemiology-informed molecular toxicology: Bridging the gap to assess environmental risk factors in cancer disparities. American Association for Cancer Research Annual Meeting 2020. Invited keynote for the Molecular Epidemiology Working Group Town Hall, April 27-28, 2020 (CONFERENCE CANCELLED DUE TO COVID-19).
2. **Colacino JA.** Single cell profiling to characterize breast stem cell heterogeneity in development and cancer. Society of Toxicology Annual Meeting. March 15-19, 2020. Anaheim, CA, USA (CONFERENCE CANCELLED DUE TO COVID-19, Presentation in “Single Cell Technologies: A Potentially Transformative Tool for Toxicology” symposium, Colacino symposium co-chair, Rescheduled as Webinar 5/28/20).
3. Middleton LYM[^], Dou J, Fisher J, Heiss JA, Just AC, Faul J, Ware EB, Mitchell C, **Colacino JA**, Bakulski KM. Saliva cell type DNA methylation reference panel for epidemiology studies in children. Society of Toxicology Annual Meeting; Mar 15-19, 2020; Anaheim, CA. Society of Toxicology Annual Meeting. March 15-19, 2020. Anaheim, CA, USA (CONFERENCE CANCELLED DUE TO COVID-19, Poster Presentation)
4. Middleton LYM[^], Dou J, Fisher J, Heiss JA, Just AC, Faul J, Ware EB, Mitchell C, **Colacino JA**, Bakulski KM. Saliva cell type DNA methylation reference panel for epidemiology studies in children. Michigan State University Pediatric Research Day; Mar 26, 2020; Detroit, MI. (CONFERENCE CANCELLED DUE TO COVID-19, Oral Platform Presentation)
5. Hill EM[^], Burnett J, Tapaswi A, Dame MK, Spence JR, Bohm MS, McCarthy CL, Karpoff K, Sun D, Chen G, **Colacino JA.** Sulforaphane Inhibits Colon Adenoma Organoid Formation and Induces Differentiation in a Dose-Dependent Manner. Society of Toxicology Annual Meeting. March 15-19, 2020. Anaheim, CA, USA (CONFERENCE CANCELLED DUE TO COVID-19, Poster Presentation)
6. Thong T[^], Brooks MD, Wang Y, Middleton LM[^], Tapaswi A, Polemi K[^], Hill E[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA.** Single-cell RNA sequencing reveals differences in transcriptomic profiles of normal mammary cells between African American and European American women. Society of Toxicology Annual Meeting. March 15-19, 2020. Anaheim, CA, USA (CONFERENCE CANCELLED DUE TO COVID-19, Poster presentation, Environmental carcinogenesis graduate student travel award - Carcinogenesis Specialty Section; First place graduate student research excellence and travel award from Stem Cell Specialty Section; SOT graduate student travel award)
7. Nguyen VK[^], **Colacino JA**, Chung MK, le Goallec A, Jolliet O, & Patel CJ. Linear and Non-linear Associations between Physiological Indicators and All-Cause Mortality for the Reevaluation of Clinical Thresholds. Society of Toxicology 59th Annual Meeting. Anaheim, CA. March 16, 2020. (CONFERENCE CANCELLED DUE TO COVID-19, Poster Presentation)
8. Thong T[^], Brooks MD, Wang Y, Middleton LM[^], Tapaswi A, Polemi K[^], Hill E[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA.** Single-cell RNA sequencing reveals differences in transcriptomic profiles of normal mammary cells between African American and European American women. Data for Public Good Symposium at the University of Michigan. February 25, 2020. Ann Arbor, MI, USA (Poster Presentation)
9. Thong T[^], Brooks MD, Wang Y, Middleton LM[^], Tapaswi A, Polemi K[^], Hill E[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA.** Single-cell RNA sequencing reveals

- differences in transcriptomic profiles of normal mammary cells between African American and European American women. 25th Annual Environmental Health Sciences Symposium at the University of Michigan. February 13, 2020. Ann Arbor, MI, USA (Poster Presentation, 3rd place poster award)
10. Hill EM[^], Burnett J, Tapaswi A, Dame MK, Spence JR, Bohm MS, McCarthy CL, Karpoff K, Sun D, Chen G, **Colacino JA**. "Sulforaphane Inhibits Colon Adenoma Organoid Formation and Induces Differentiation in a Dose-Dependent Manner". 25th Annual Environmental Health Sciences Symposium at the University of Michigan. February 13, 2020. Ann Arbor, MI, USA (Poster Presentation, 1st place poster award)
 11. Thong T[^], Brooks MD, Wang Y, Middleton LM[^], Tapaswi A, Polemi K[^], Hill E[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA**. Single-cell RNA sequencing reveals differences in transcriptomic profiles of normal mammary cells between African American and European American women. Michigan Institute for Data Science Annual Data Science Symposium. November 13-15, 2019. Ann Arbor, MI, USA (Poster Presentation)
 12. Middleton LYM[^], Dou J, Fisher J, Heiss JA, Just AC, Faul J, Ware EB, Mitchell C, **Colacino JA**, Bakulski KM. Saliva cell type DNA methylation reference panel for epidemiology studies in children. University of Michigan School of Public Health Epidemiology Internship Poster Session; Nov 8, 2019; Ann Arbor, MI. (Poster Presentation, 2nd place poster award)
 13. Thong T[^], Brooks MD, Wang Y, Middleton LM[^], Tapaswi A, Polemi K[^], Hill E[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA**. Single-cell RNA sequencing reveals differences in transcriptomic profiles of normal mammary cells between African American and European American women. Michigan Society of Toxicology Regional Chapter Meeting. October 18, 2019. Ann Arbor, MI, USA. (Platform and Poster Presentations; 2nd place graduate student poster award)
 14. Hill EM[^], Burnett J, Tapaswi A, Dame MK, Spence JR, Bohm MS, McCarthy CL, Karpoff K, Sun D, Chen G, **Colacino JA**. "Sulforaphane Inhibits Colon Adenoma Organoid Formation and Induces Differentiation in a Dose-Dependent Manner". Michigan Society of Toxicology Annual Meeting 2019. October 18, 2019. Ann Arbor, MI, USA (Poster Presentation)
 15. Nguyen VK[^], Chung MK, Pho N, Patel CJ, **Colacino JA**, & Jolliet O. Systematic Identification of Allostatic Load Components Associated with Mortality. Michigan Society of Toxicology (MISOT 2019). Ann Arbor, MI. October 18, 2019. Ann Arbor, MI, USA (Poster Presentation)
 16. Nguyen VK[^], Chung MK, Pho N, Patel CJ, **Colacino JA**, & Jolliet O. Systematic Identification of Allostatic Load Components Associated with Mortality. 31st Annual Conference of the International Society for Environmental Epidemiology (ISEE 2019). Utrecht, the Netherlands. August 28, 2019. (Poster Presentation)
 17. Nguyen VK[^], Kahana A[^], Heidt J[^], Polemi K[^], Kvasnicka J, **Colacino JA**, Jolliet O. A comprehensive analysis of racial disparities in chemical exposure biomarkers in US women. ISES-ISIAQ 2019 Joint Meeting (International Society of Exposure Science & International Society of Indoor Air Quality and Climate). Kaunas, Lithuania. August 20, 2019. (Platform Oral Presentation)
 18. Nguyen VK[^], Chung MK, Pho N, Patel CJ, **Colacino JA**, & Jolliet O. Systematic Identification of Allostatic Load Components Associated with Mortality. ISES-ISIAQ 2019 Joint Meeting (International Society of Exposure Science & International Society of Indoor Air Quality and Climate). Kaunas, Lithuania. August 18-19, 2019. (Poster Presentation)
 19. Nguyen VK, Chung MK, Pho N, Patel CJ, Colacino J, & Jolliet O. Systematic Identification of Allostatic Load Components Associated with Mortality. Gordon Research Seminar on Cellular and Molecular Mechanisms of Toxicity. Andover NH. August 10, 2019. (Poster Presentation, 2nd place award student research poster contest, Gordon Research Seminar)
 20. Thong T[^], Brooks MD, Wang Y, Middleton LM[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA**. Quantifying Transcriptomic Changes of Human Mammary Cells Pre- and Post- Conditional Reprogramming Using Single Cell Analyses. Gordon Research

- Conference: Cellular and Molecular Mechanisms of Toxicity. August 11-16, 2019. Andover, NH, USA. (Poster presentation)
21. Hill EM[^], Esper RM, Polakowski N, Simon B, Aslam NM, Jiang Y, Dame MK, Djuric Z, Wicha MS, Smith WL, **Colacino JA**, Brenner DE. "Dietary Polyunsaturated Fatty Acids Modulates Adipose Secretome and is Associated with Changes in Mammary Epithelial Stem Cell Self-Renewal". Cellular and Molecular Mechanisms of Toxicology Gordon Research Conference. August 10-16, 2019. Andover, NH, USA (Poster Presentation, Best graduate student poster, session 2)
 22. **Colacino JA**. Environmental Exposures and Stem Cell Reprogramming: Understanding Racial Disparities in Triple Negative Breast Cancer. Cellular and Molecular Mechanisms of Toxicity Gordon Research Conference. August 11-16, 2019. Andover, NH (Invited Oral Presentation)
 23. **Colacino JA**. 2D and 3D primary human breast tissue culture models to understand environmental impacts on stem cells in cancer. Society for In Vitro Biology Annual Meeting 2019. June 8-12, 2019. Tampa Bay, FL (Oral Symposium Presentation).
 24. Svoboda LK, Neier K, Cavalcante R, Tsai Z, Jones TR, Liu S, Goodrich JM, Lalancette C, **Colacino JA**, Sartor MA, Dolinoy DC. Comparison of mouse liver and blood DNA methylome after gestational exposure to lead. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Poster Presentation).
 25. Hill E[^], Esper RM, Polakowski N[^], Simon B, Aslam N, Jiang Y, Dame MK, Djuric Z, Wicha MS, Smith WL, **Colacino JA**, Brenner DE. Dietary polyunsaturated fatty acids modulate adipose inflammation and the adipokine secretome and is associated with increased mammary stem cell self-renewal. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Poster Presentation).
 26. Forté C[^], Nambunmee K, Polemi K[^], Guytingco A, Neitzel R, Peraino N, Westrick J, **Colacino JA**. Pesticide Exposure Levels and Disease Symptomology among Northern Thailand Farmworkers. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Poster Presentation).
 27. Thong T[^], Brooks MD, Wang Y, Middleton L[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA**. Quantifying Transcriptomic Changes of Human Mammary Cells Pre- and Post- Conditional Reprogramming Using Single Cell Analyses. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Oral Presentation).
 28. Nguyen V[^], **Colacino JA**, Jolliet O. Biomarker-Based Occupational Exposome. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Poster Presentation).
 29. Heidt J[^], Polemi K[^], Nguyen V[^], Kahana A[^], Jolliet O, **Colacino JA**. Identifying the link between chemical exposures and incidence of triple negative breast cancer in African American women. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Poster Presentation).
 30. **Colacino JA**. Timing is Critical: Linking Cadmium Exposure, Stem Cells, Breast Development, and Cancer. Society of Toxicology Annual Meeting 2019. March 10-14, 2019. Baltimore, MD, USA (Oral symposium presentation).
 31. Hill E[^], Esper RM, Polakowski N[^], Simon B, Aslam N, Jiang Y, Dame MK, Djuric Z, Wicha MS, Smith WL, **Colacino JA**, Brenner DE. Dietary polyunsaturated fatty acids modulate adipose inflammation and the adipokine secretome and is associated with increased mammary stem cell self-renewal. Michigan Regional Chapter of the Society of Toxicology. October 30, 2018. Ann Arbor, MI, USA (Poster Presentation; 2nd Place Prize Winner).
 32. Forté C[^], Nambunmee K, Polemi K[^], Guytingco A, Neitzel R, Peraino N, Westrick J, **Colacino JA**. Pesticide Exposure Levels and Disease Symptomology among Northern Thailand Farmworkers. Michigan Regional Chapter of the Society of Toxicology. October 30, 2018. Ann Arbor, MI, USA (Poster Presentation).

33. Thong T[^], Brooks MD, Wang Y, Middleton L[^], Rocco S[^], Scott C, Balzano L, Wicha MS, **Colacino JA**. Quantifying Transcriptomic Changes of Human Mammary Cells Pre- and Post- Conditional Reprogramming Using Single Cell Analyses. Michigan Regional Chapter of the Society of Toxicology. October 30, 2018. Ann Arbor, MI, USA (Poster Presentation).
34. Nguyen V[^], **Colacino JA**, Jolliet O. Biomarker-Based Occupational Exposome. Michigan Regional Chapter of the Society of Toxicology. October 30, 2018. Ann Arbor, MI, USA (Poster Presentation).
35. Heidt J[^], Polemi K[^], Nguyen V[^], Kahana A[^], Jolliet O, **Colacino JA**. Identifying the link between chemical exposures and incidence of triple negative breast cancer in African American women. Michigan Regional Chapter of the Society of Toxicology. October 30, 2018. Ann Arbor, MI, USA (Poster Presentation).
36. Nguyen V[^], **Colacino JA**, Jolliet O. Biomarker-Based Occupational Exposome. International Society of Environmental Epidemiology and the International Society of Exposure Science Joint Meeting. August 26-30, 2018, Ottawa, Canada (Poster Presentation).
37. Nguyen V[^], **Colacino JA**, Jolliet O. A New Analysis and Visualization Tool to Identify Chemical Exposure Disparities by Demographic Traits. International Society of Environmental Epidemiology and the International Society of Exposure Science Joint Meeting. August 26-30, 2018, Ottawa, Canada (Platform Presentation).
38. Bakulski KM, Thompson RC, Middleton LA[^], Dou J, Bambarendage P, Neier K, Sartor MA, Hammoud S, Dolinoy DC, **Colacino JA**. Single cell transcriptomics to map the effects of developmental lead exposure on the hippocampus. NIEHS Core Centers Annual Meeting, July 16-18, 2018, Davis, CA, USA (Poster Presentation).
39. **Colacino JA**. Environmental exposures and stem cell reprogramming: Understanding racial disparities in triple negative breast cancer. The Allegheny-Erie Regional Chapter of the Society of Toxicology Annual Meeting. May 30-31, 2018, Morgantown, WV, USA (Keynote Presentation).
40. Koneva L[^], Rocco S[^], Middleton L[^], Thong T[^], Solanki S, Karram S[^], Nambunmee K, Harris C, Rozek L, Sartor M, Shah Y, **Colacino JA**. Transcriptomic and epigenomic effects of cadmium exposure during normal breast stem cell differentiation. The Society of Toxicology 57th Annual Meeting. March 11-15 2018, San Antonio, TX, USA (Poster Presentation).
41. Rocco S[^], Koneva L, Middleton L[^], Thong T[^], Solanki S, Karram S[^], Nambunmee K, Harris C, Rozek L, Sartor M, Shah Y, **Colacino JA**. Cadmium exposure inhibits branching morphogenesis and causes alterations consistent with HIF-1a inhibition in human primary breast organoids. The Society of Toxicology 57th Annual Meeting. March 11-15, 2018, San Antonio, TX, USA (Poster Presentation).
42. Thong T[^], Brooks MD, Neier K, Middleton L[^], Karram S[^], Rocco S[^], Harris C, Wicha MS, **Colacino JA**. Conditional Reprogramming of Human Mammary Cells: A Promising In Vitro Model for Precision Breast Cancer Toxicology. The Society of Toxicology Annual Meeting. March 11-15, 2018, San Antonio, TX, USA (Poster Presentation).
43. Forte C[^], **Colacino JA**, Guytingco A, Neitzel R, Nambunmee K. Pesticide exposure among N. Thailand Farmworkers. The 9th Annual Consortium of Universities for Global Health Conference March 15-18, 2018, New York, NY, USA (Poster Presentation).
44. Nguyen V[^], **Colacino JA**, Jolliet O. Biomarker-Based Occupational Exposome. The National Institute of Occupational Safety and Health Education Research Center for Occupational Health and Safety Engineering Conference at the University of Illinois Chicago Research Symposium. March 9-11, 2018, Chicago, IL, USA (Poster Presentation).
45. Forte C[^], **Colacino JA**, Guytingco A, Neitzel R, Nambunmee K. Pesticide exposure and health effects among N. Thailand Farmworkers. The National Institute of Occupational Safety and Health Education Research Center for Occupational Health and Safety Engineering Conference at the University of Illinois Chicago Research Symposium March 9-11, 2018, Chicago, IL, USA (Poster Presentation).

46. **Colacino JA**. Genetic, epigenetic, and environmental factors and heterogeneity in normal breast stem cells: Implications for risk assessment. The 7th Annual International Breast Cancer Prevention Symposium. Oct 31 – Nov 1, Montevideo, Uruguay (Invited Platform Presentation).
47. Rocco S[^], Koneva L, Middleton L[^], Thong T[^], Solanki S, Karram S[^], Nambunmee K, Harris C, Rozek L, Sartor M, Shah Y, **Colacino JA**. Cadmium exposure inhibits branching morphogenesis and causes alterations consistent with HIF-1a inhibition in human primary breast organoids. Michigan Regional Chapter of the Society of Toxicology Fall Meeting: Urban Environmental Influences on Metabolic Health. October 26, Detroit, MI, USA (Poster Presentation).
48. Forte C[^], **Colacino JA**, Guytingco A, Neitzel R, Nambunmee K. Pesticide exposure and health effects in informal farmworkers in northern Thailand. The 2017 Annual Michigan Chapter Society of Toxicology Chapter Meeting. October 26, 2017, Detroit, MI, USA (Platform Presentation).
49. Rocco S[^], Koneva L, Middleton L[^], Thong T[^], Solanki S, Karram S[^], Nambunmee K, Harris C, Rozek L, Sartor M, Shah Y, **Colacino JA**. Cadmium exposure inhibits branching morphogenesis and causes alterations consistent with HIF-1a inhibition in human primary breast organoids. The 3rd Symposium on Developmental Origins of Metabolic Syndrome. October 9, Ann Arbor, MI, USA (Poster Presentation).
50. Nguyen V[^], **Colacino JA**, Arnot J, Kvasnicka J, Jolliet O. Age-based and time trends of chemical exposure biomarkers in the US population 1999-2014. The International Society for Exposure Science Annual Meeting. October 15 – 19, Raleigh, NC, USA (Platform Presentation).
51. **Colacino JA**. Single Cell Transcriptomics: Unraveling Heterogeneity in Environmental Health and Cancer. The 2017 In Vitro Biology Meeting. June 10 – 14, Raleigh, NC, USA (Platform Presentation and Session Convener).
52. Wu Y[^], Baylin A, **Colacino JA**. Iron, Oxidative Stress, and Stearoyl CoA-Desaturase Activity. Experimental Biology. April 22 – 26, 2017. Chicago, IL, USA. (Poster Presentation)
53. Fouladdel S, **Colacino JA**, Azizi E, Wicha MS. Single cell mRNA expression profiling reveals heterogeneity of normal and malignant breast stem cell populations. American Association for Cancer Research Annual Meeting 2017. April 1-5, 2017, Washington D.C, USA. (Poster Presentation)
54. Laliberte J, Dame MK, Atilli D, Islam B, Kim K, Zhang J[^], Katz E, Newsome G, Dedhia P, Kruger A, Mann T, Goodman T, Buis J, Brenner DE, Varani J, Spence JR, **Colacino JA**, Stoerker J. Simultaneous measurement of global methylation and copy number alterations in human colorectal cancer samples. American Association for Cancer Research Annual Meeting 2017. April 1-5, 2017, Washington D.C, USA. (Poster Presentation)
55. **Colacino JA**, Varani J. Three Dimensional Culture of Primary Human Colonic Organoids: Optimization of Conditions, Characterization of Long-term Culture Effects, and Isolation of LGR5+ Stem Cells. National Cancer Institute: Innovative Molecular Analysis Technologies Seventeenth Principal Investigators Meeting. December 1-2, 2016, Bethesda, MD, USA. (Platform Presentation).
56. Zick S, **Colacino JA**, Djuric Z. Fatigue Reduction Diet in Breast Cancer Survivors: A Pilot Randomized Clinical Trial. 13th International Conference of the Society for Integrative Oncology November 5-7, 2016 in Miami, FL, USA. (Voted "Best of" Abstracts, Poster Presentation).
57. **Colacino JA**. 3D Culture of Patient Derived Tissues: Understanding Environmental Effects on the Stem Cell Epigenome. Toxicopigenetics: The Interface of Epigenetics and Risk Assessment. November 2 – 4, 2016, Tysons Corner, VA, USA. (Invited Platform Presentation).
58. **Colacino JA**, Dame MK, Attili D, McClintock SD, Hardt O, Altheim C, Ouillette P, Dedhia P, Chin AM, Hill D, Miller A, Agorku D, Bosio A, Simon B, Samuelson LC, Appelman HD,

- Wicha MS, Brenner DE, Spence JR, Varani J. Genomic Characterization and Isolation of LGR5+ Stem Cells from Human Primary Colonic Enteroids. The 2016 World Congress for In Vitro Biology. June 10 – 15, 2016, San Diego, CA, USA. (Invited Platform Presentation).
59. Demanelis K, Virani S, **Colacino JA**, Ruangyuttikarn W, Nishijo M, Swaddiwudhipong W, Basu N, Rozek LS. Cadmium Exposure and Age-Associated DNA Methylation Changes in Non-smoking Women from Northern Thailand. 27th Conference of the International Society for Environmental Epidemiology, August 30-September 3, 2015, São Paulo, Brazil. (Oral Presentation)
 60. Arthur AE, Virani S, **Colacino JA**, Belile EL, Peterson LA, Wolf GT, Rozek LS. A Western dietary pattern is associated with lower levels of CD1A in newly diagnosed head and neck cancer patients. International Society of Nutrigenetics and Nutrigenomics, May 17-19, 2015, Chapel Hill, North Carolina. (Poster Presentation)
 61. Annexin A3 regulates MET-like aldehyde dehydrogenase positive breast cancer stem cells. Deol YS, McDermott SP, Lubman DM, Chang JC, Nie S, Luther TK, Cong Y, Azizi E, **Colacino JA**, Clouthier SG, Wicha MS. American Association for Cancer Research, April 18-22nd 2015, Philadelphia PA, USA. (Poster Presentation)
 62. **Colacino JA**, McDermott SP, Sartor MA, Kakarala M, Wicha MS, Rozek LS. Transcriptomic Effects of the Cancer Preventive Compounds Curcumin and Piperine in Breast Stem Cells. Society of Toxicology, March 23rd – 27th, 2014, Phoenix AZ, USA. (Poster Presentation)
 63. **Colacino JA**. A mammosphere model for breast cancer: Applications for toxicology and cancer prevention. Michigan Regional Chapter of the Society of Toxicology Meeting, "In Vitro Advances and In Silico Modeling", May 10, 2013, Kalamazoo, MI, USA. (Oral Presentation)
 64. **Colacino JA**, Arthur AE, Ferguson KK, Ruangyuttikarn W, Satarug S, Rozek LS. Dietary antioxidant and anti-inflammatory intake modifies the effect of cadmium exposure on markers of systemic inflammation and oxidative stress. Environmental Cadmium Conference 2013, February 14-15, Chiang Mai, Thailand. (Oral Presentation).
 65. Rozek LS, Virani SV, **Colacino JA**, Cole L, Basu N, Cote ML, Satarug S, Nishijo M, Swaddiwudhipong W. Cadmium exposure is associated with epigenetic changes in highly exposed subjects in Mae Sot, Thailand. Post-GWAS Horizons in Molecular Epidemiology: Digging Deeper into the Environment (American Association for Cancer Research), November 11-14, 2012, Hollywood, FL, USA. (Poster Presentation)
 66. Arthur AE*, **Colacino JA***, Duffy SA, Dolinoy CD, Terrell JE, Sartor MA, Chepeha DB, McHugh JB, Bradford CR, Wolf GT, Carey TE, Peterson KE, Rozek LS. Dietary intake is associated with tumor suppressor DNA methylation in head and neck squamous cell carcinomas. American Association for Cancer Research, March 31st – April 4th, 2012, Chicago, IL, USA. (Poster Presentation)
 67. **Colacino JA***, Tang A*, Moyer J, Rozek LS. Epigenetic profiling identifies differentially methylated loci in metastatic vs. non-metastatic primary squamous and basal cell skin cancers. American Association for Cancer Research, March 31st – April 4th, 2012, Chicago, IL, USA. (Poster Presentation)
 68. Cote ML, **Colacino JA**, Sheng S, Lonardo F, Stewart M, Dolinoy DC, Jones TR, Schwartz AG, Rozek LS. Methylation profiles using 480,000 cytosine markers of early stage adenocarcinomas of the lung. American Association for Cancer Research, March 31st – April 4th, 2012, Chicago, IL, USA. (Poster Presentation)
 69. Kim SH, Chen G, Jeon CK, Zaho L, **Colacino JA**, Rozek LS, Christensen PJ, Beer DG, Ramnath N. Smoking effects on CYP24A1 in lung adenocarcinoma: Epigenetic changes by smoking. American Association for Cancer Research, March 31st – April 4th, 2012, Chicago, IL, USA. (Poster Presentation)
 70. Birnbaum LS, Schechter AJ, Szabo DT, Miller J, Malik-Bass N, Petersen M, Paepke O, **Colacino JA**, Hynan LS, Harris TR, Cheng D. Hexabromocyclododecane (HBCD)

- Stereoisomers in U.S. Food From Dallas, TX. Society of Toxicology, March 11-15th, 2012, San Francisco, CA, USA. (Poster Presentation).
71. Schechter A, Calafat AM, Kato K, **Colacino JA**, Malik-Bass N, Gent TL, Miller J, Hynan LS, Harris TR, Cheng D, Birnbaum LS. Polyfluoroalkyl Compounds (PFCs) in Texas Children from Birth through 12 Years of Age. Society of Toxicology, March 11-15th, 2012, San Francisco, CA, USA. (Poster Presentation)
 72. **Colacino JA**, Light E, Dolinoy DC, Duffy S, Sartor M, Chepeha D, McHugh J, Patel D, Taylor J, Wolf G, Carey TE, Rozek LS. A Comprehensive Analysis of DNA Methylation in Head and Neck Squamous Cell Carcinoma Indicates Differences Between Viral and Chemical Induced Carcinogenesis. International Society for Environmental Epidemiology, September 13-16, 2011, Barcelona, Spain. (Oral presentation)
 73. Sjödin A , Schechter A, Jones RS , Wong LY , **Colacino JA**, Malik N , Edenfield E , DiPietro E , Hodge C , Zhang Y , Anderson S , Cheek B , Harry D , Nannis T, McClure C , Turner W. Body Burden of PBDEs and Other Organohalogens in Children from Dallas, Texas, USA from birth through age 13. 6th Thermo Scientific Symposium on Recent Advances in POPs Analysis, April 28-29, 2011, Niagara-on-the-lake, Ontario, CA. (Oral presentation)
 74. **Colacino JA**, Soliman A, Nahar MS, Van Zomeren-Dohm A, Seifeldin I, Hablas A, Rozek LS, Dolinoy DC. Exposure to Phthalates among Premenstrual Girls from Rural and Urban, Gharbiah, Egypt. Society of Toxicology, March 6-10, 2011, Washington, D.C. (Poster Presentation)
 75. Patel D, Rozek LS, **Colacino JA**, Van Zomeren-Dohm A, Ruffin M, Unger E, Swan D, Onyekwuluje J, DeGraffinreid C, Paskett E. Patterns of cellular and HPV16 methylation as biomarkers for cervical neoplasia. International Papillomavirus Conference, July 5-8, 2010, Montreal, Quebec. (Poster Presentation)
 76. Schechter A, **Colacino JA**, Smith S, Patel K, Pöpke O, Opel M, Kannan K, Yun SH, Birnbaum LS. POPs in U.S. Humans and Food. BFR2010, April 7-9, 2010, Kyoto, Japan. (Oral presentation)
 77. Schechter A, **Colacino JA**, Harris TR, Opel M, Pöpke O, Kannan K, Birnbaum LS. POPs in the US Population and in US Food. Society of Toxicology, March 7-11, 2010, Salt Lake City, Utah. (Oral presentation)
 78. **Colacino JA**, Harris TR, Schechter A. Dietary intake is associated with phthalate body burden in a nationally representative sample. Society of Toxicology, March 7-11, 2010, Salt Lake City, Utah. (Poster Presentation)
 79. Schechter A, **Colacino JA**, Haffner D, Opel M, Pöpke O, Birnbaum LS. Chemical contamination of composite samples of United States food. Dioxin 2009, August 23-28, 2009, Beijing, China. (Oral presentation)
 80. Schechter A, **Colacino JA**, Kannan K, Yun SH, Haffner D, Harris TR, Pöpke O, Birnbaum LS. Polybrominated diphenyl ether levels in food from three locations in the United States. Dioxin 2009, August 23-28, 2009, Beijing, China. (Oral presentation)
 81. Schechter A, **Colacino JA**, Kurunthachalam K, Yun SH, Harris TR, Pöpke O, Birnbaum LS. Temporal and Geographical trends in PBDE levels in US Food. Society of Toxicology, March 19, 2009, Baltimore, MD. (Poster Presentation)
 82. Schechter A, Quynh HT, Pöpke O, **Colacino JA**, Constable JD. Agent Orange Chronicles: Vietnam and the United States. American Public Health Association, October 30, 2008, San Diego, CA. (Oral presentation)
 83. Schechter A, **Colacino JA**, Shah N, Brummitt SI, Harris TR, Pöpke O, Ryan JJ. U.S. human milk and blood PBDE levels: Environmental and food exposure. International Society for Environmental Epidemiology & International Society for Exposure Analysis, 2008 Joint Annual Conference, October 13, 2008, Pasadena, CA. (Oral presentation)
 84. Schechter A, Shah N, Brummitt SI, **Colacino JA**, Harris TR, Sjödin A, Pöpke O, Ryan JJ. U.S. Human milk and blood PBDE levels: Environmental and food exposure. Dioxin 2008, August 19, 2008, Birmingham, U.K. (Oral presentation)

85. Schecter A, Quynh HT, Pöpke O, **Colacino JA**, Constable JD. An Update on Vietnamese and U.S. Agent Orange collaboration. Dioxin 2008, August 19, 2008, Birmingham, U.K. (Oral presentation)

*- These authors contributed equally to this work

^- Colacino lab trainee

INVITED TALKS/PRESENTATIONS

1. Takara Bio. Ann Arbor, MI. December 17, 2019.
2. Epigenetics Working Group. University of Michigan Medical School. October 16, 2019.
3. University of Michigan Center for Gastrointestinal Research Single Cell Workshop. Ann Arbor, MI. October 3, 2019.
4. Cardio-Thoracic Sciences Center. All India Institute of Medical Sciences, New Delhi, India. December 21, 2018.
5. Cancer Control and Population Sciences Seminar Series. University of Michigan Rogel Cancer Center. May 4, 2018.
6. Cancer Epidemiology and Prevention Group Meeting. University of Michigan Rogel Cancer Center. April 27, 2018.
7. RNA Innovation Seminar. University of Michigan Center for RNA Biomedicine. April 2, 2018.
8. Epigenetics Research Seminar Series. University of Michigan Medical School. March 6, 2017.
9. Johns Hopkins University Bloomberg School of Public Health, Department of Environmental Health Sciences, November 19, 2015.
10. McGill University Departments of Oncology and Epidemiology, Biostatistics, and Occupational Health, Montreal, Canada, June 9, 2015.
11. The University of Michigan Comprehensive Cancer Center and Department of Environmental Health Sciences, Ann Arbor, Michigan, June 4, 2015.
12. The Ohio State University College of Public Health, Division of Environmental Health Sciences, Columbus, Ohio, April 21, 2015.
13. University of Michigan Momentum Center/MAC-EPID Workshop, Ann Arbor, MI, March 26, 2015.
14. University of South Carolina School of Public Health, Department of Epidemiology and Biostatistics, Columbia, South Carolina, March 19, 2015.
15. University of Michigan Interdepartmental Group Seminar, Ann Arbor, Michigan, October 28, 2014.
16. Mae Fah Luang University, School of Health Science, Chiang Rai, Thailand, February 19, 2013.
17. Chiang Mai University, Department of Forensic Medicine, Chiang Mai, Thailand, February 11, 2013.
18. University of Michigan Comprehensive Cancer Center, Cancer Epidemiology Working Group Meeting, Ann Arbor, Michigan, February 4, 2011.
19. University of Michigan Comprehensive Cancer Center, Cancer Prevention Research Meeting, July 8, 2010.

STUDENT RESEARCH ADVISING

PhD Student Research Advising – University of Michigan

1. Meghan Moynihan (PhD, Nutritional Sciences, Graduated: Fall 2016)
Role: Committee Member
2. Vy Nguyen (PhD, Bioinformatics, Expected Graduation: Fall 2020)
Role: Co-Chair
3. Chanese Forté (PhD, Environmental Health Sciences, Expected Graduation: Winter 2021)
Role: Chair
4. Thomas Gonzalez (PhD, Toxicology, Graduated: Fall 2018)
Role: Co-Chair
5. Elana Elkin (PhD, Toxicology, Graduated: Fall 2019)
Role: Committee Member
6. Carly McCabe (PhD, Nutritional Sciences, Expected Graduation: Summer 2020)
Role: Committee Member
7. Evan Hill (PhD, Toxicology, Expected Graduation: Winter 2021)
Role: Chair
8. Anthony Su (PhD, Toxicology, Expected Graduation: Winter 2020)
Role: Committee Member
9. Tasha Thong (PhD, Toxicology, Expected Graduation: Winter 2022)
Role: Chair
10. Christine Rygiel (PhD, Environmental Health Sciences, Expected Graduation: Winter 2022)
Role: Committee Member
11. Siyu Liu (PhD, Computational Medicine and Bioinformatics, Expected Graduation: Winter 2022)
Role: Committee Member
12. Brittany Rupp (PhD, Chemical Engineering, Expected Graduation: Winter 2022)
Role: Committee Member
13. Umang Varma (PhD, Math, Graduation: Summer 2019)
Role: Committee Member
14. Samantha Lapehn (PhD, Toxicology, Expected Graduation: Winter 2020)
Role: Committee Member
15. Nathan Craig (PhD, Toxicology, Expected Graduation: Winter 2021)
Role: Committee Member
16. Katelyn Polemi (PhD, Toxicology, Expected Graduation: Winter 2023)
Role: Co-Chair
17. Jia Shi (PhD, Chemistry, Expected Graduation: Winter 2022)
Role: Committee Member
18. Kyle Campbell (PhD, Epidemiology, Expected Graduation: Winter 2022)
Role: Committee Member

Masters Student Research Advising – University of Michigan School of Public Health

1. Danielle Lee (MPH, Toxicology, Graduated: April 2015, Role: Capstone Advisor)
2. Jessica Wu (MS, Nutrition, Graduated: Winter 2016, Role: Thesis committee chair)
3. Evan Hill (MS, Toxicology, Graduated: Winter 2016, Role: Thesis committee chair)
4. Sabrina Rocco (MS, Toxicology, Graduation: Winter 2017, Role: Thesis committee chair)
5. Alexandra Teodorescu (MPH, EHS, Graduation: Winter 2017)

6. Tasha Thong (MS, Toxicology, Graduation: Winter 2018, Role: Thesis committee chair)
7. Joseph Skulsky (MS, Toxicology, Graduation: Winter 2018; Role: Thesis committee member)
8. Andrea Cruz (MS, Nutritional Sciences, Graduation: Winter 2018; Role: Thesis committee member)
9. Matthew Wilson (MS, Nutritional Sciences, Graduation: Winter 2018; Role: Thesis committee member)
10. Katelyn Polemi (MS, Toxicology, Graduation: Winter 2019, Role: Thesis committee chair)
11. Maureen Malloy (MS, Toxicology, Graduation: Winter 2019, Role: Thesis committee member)
12. Nicholas Polakowski (MPH, Hospital and Molecular Epidemiology, Expected Graduation: Winter 2019, Role: Capstone Advisor)
13. Lauren Middleton (MPH, Hospital and Molecular Epidemiology, Expected Graduation: Winter 2020, Role: Capstone Advisor)
14. Daniel Hicks (MS, Toxicology, Expected Graduation: Winter 2020, Role: Thesis committee co-chair)
15. Brittany McKenzie (MS, Nutritional Sciences, Expected Graduation: Winter 2020, Role: Thesis committee member)
16. Xingyue Zhang (MS, Environmental Health Sciences, Expected Graduation: Winter 2021, Role: Thesis committee member)

Undergraduate Student Research Advising – University of Michigan

1. Jessica Zhang (Molecular and Cellular Biology, Graduation: Winter 2019)
2. Julien Heidt (Molecular and Cellular Biology, Graduation: Winter 2019)
3. Sarah Karram (Microbiology, Graduation: Winter 2018)
4. Adam Kahana (Music and Computer Science, Expected Graduation: Winter 2021)
5. Nicholas Cemalovic (Molecular, Cellular, and Developmental Biology, Expected Graduation: Winter 2023)

STATISTICAL SOFTWARE/COMPUTER EXPERIENCE

Software	Microsoft Office Suite 2003, 2007, 2010, 2016, Office 365 (Word, Excel, Access, Powerpoint, Visio), Keynote, OpenOffice Suite, SAS, SPSS, R, Python, Mathematica, EndNote, Mendeley GIMP Photo Editor, Adobe Photoshop, Adobe Acrobat, Cell Profiler, Cell Profiler Analyst, ImageJ
O/S	Ubuntu Linux, Windows XP, Windows Vista, Windows 7, Windows 10, Mac OS X

References available upon request