

Education

- May 2006 BS (Biopsychology and Cognitive Science), University of Michigan
May 2011 MPH (Occupational and Environmental Epidemiology), University of Michigan School of Public Health
May 2014 PhD (Environmental Health Sciences), University of Michigan School of Public Health (Dissertation: Environmental phthalate exposure, oxidative stress, and preterm birth)

Brief Chronology of Employment

- 2014-2015 Post-doctoral research fellow and NIEHS P30 center scientist, Department of Environmental Health Sciences, University of Michigan School of Public Health, Ann Arbor, MI
2015-2015 Research Assistant Professor, Department of Environmental Health Sciences, University of Michigan School of Public Health, Ann Arbor, MI
2016-date Tenure track investigator, Epidemiology Branch, Division of Intramural Research, National Institute of Environmental Health Sciences, Research Triangle Park, NC
2016-date Adjunct Assistant Professor, Department of Environmental Health Sciences, University of Michigan School of Public Health, Ann Arbor, MI
2016-date Adjunct Assistant Professor, Department of Epidemiology, University of North Carolina Gillings School of Public Health, Chapel Hill, NC
2018-date Adjunct appointment, Curriculum in Toxicology, University of North Carolina, Chapel Hill, NC

Honors and Scientific Recognition

- University of Michigan Rackham Regents' Fellowship, 2011-2014
Blue Cross Blue Shield of Michigan Excellence in Student Research Award, 2014
NIH Pediatric Loan Repayment Program, 2014-2016
NIH Intramural Loan Repayment Program, 2016-2020
Collaborative on Health and the Environment's 20 Pioneers Under 40 in Environmental Public Health, 2017
NIEHS Mentor of the Year Award, 2018
NIEHS Extramural Paper of the Month (N=3, Meeker and Ferguson 2011, Ferguson et al. 2014, Ferguson et al. 2019, *see publication list*)
NIEHS Extramural Paper of the Year (N=1, Ferguson et al. 2014, *see publication list*)
NIEHS Intramural Paper of the Month (N=6, Ferguson et al. 2017, Muñoz et al. 2018, Kim et al. 2018, van 't Erve et al. 2019, Ferguson et al. 2019, Ferguson et al. 2019, *see publication list*)

Memberships

- International Society for Environmental Epidemiology
Society for Pediatric and Perinatal Epidemiologic Research

Research Interests

Environmental chemical exposure assessment; individual and mixed exposures in association with fetal growth and preterm birth; phenotyping adverse pregnancy outcomes; underlying biological mechanisms that can be assessed using biomarkers in population studies; developmental origins of disease; placental development and statistical methods for longitudinal studies, analysis of exposure mixtures, and mediation.

Current Studies with NIEHS Intramural Funding

Consumer product chemical exposures in pregnancy and their cumulative impact on disorders of fetal growth. This is a case-cohort study within the LIFECODES birth cohort (PI: Thomas McElrath) designed to investigate consumer product chemical exposures during pregnancy in relation to disorders of fetal growth. The study will also examine the role of inflammation as a potential mediator in these relationships.

Environmental phenol exposures in pregnancy in relation to fetal and placental development. This study is a collaboration with an NICHD-funded Human Placenta Project cohort (PI: Alfred Abuhamad) in which we are collecting urine specimens at 8 visits during pregnancy that coincide with ultrasound measurements that capture novel information on development of the fetus and placenta.

The Generation R birth cohort as an NIEHS resource. Under this project, we collaborate with investigators at Erasmus Medical Center (PI: Vincent Jaddoe) and elsewhere to investigate questions pertaining to environmental chemical exposures and fetal growth within the Generation R cohort.

Previous Studies with NIEHS Intramural Funding

Phthalate and stressful life event exposures and pregnancy outcomes: the role of oxidative stress. This study expanded on The Infant Development and the Environment Study (TIDES; PI Shanna Swan) to examine chemical and non-chemical exposure mixtures and oxidative stress biomarkers in relation to fetal growth and timing of delivery. Role: PI.

Oxidative stress as a mediator of environmental exposure impacts on fertility endpoints. This study expanded on the Environment and Reproductive Health study (EARTH; PI: Russ Hauser) to examine oxidative stress biomarkers in relation to chemical exposures and in vitro fertilization outcomes. Role: PI.

Current Trainees

Barrett Welch, PhD (IRTA postdoctoral fellow 2019-present)

Mentoring role: Primary mentor

Angel Davalos, PhD (IRTA postdoctoral fellow 2019-present)

Mentoring role: Co-mentor with Dr. Shanshan Zhao (Biostatistics and Computational Biology Branch)

Former Trainees

Ye Yuan, MPH (MPH student 2014-2015, no NIEHS affiliation)

Department of Epidemiology, University of Michigan School of Public Health

Mentoring role: Primary mentor for Master's Thesis

Elizabeth Kamai, MPH (Summer fellow 2016)

PhD expected 2020, Epidemiology

University of North Carolina Gillings School of Public Health

Mentoring role: Primary mentor for summer research project

Ellie Lan, MS (MS student 2016-2018, no NIEHS affiliation)

MS expected 2017, Statistics

University of North Carolina

Mentoring role: Primary mentor for Master's Thesis

Lauren Johns, PhD, MPH (PhD student 2012-2017, no NIEHS affiliation)

University of Michigan School of Public Health

Mentoring role: Co-mentor for dissertation

Antti Impinen, PhD (Postdoctoral fellow 2016-2017)

Mentoring role: Co-mentor for post-doctoral fellowship

Maria Isabel Guadalupe Muñoz, MPH (Summer fellow 2017)

Mentoring role: Primary mentor for summer research project and Master's thesis

Stephanie Eick, MPH, PhD (Summer fellow 2017)

Mentoring role: Primary mentor for summer research project, dissertation committee member

Current position: Postdoctoral fellow, University of California San Francisco Program on Reproductive Health and the Environment

Paige Bommarito (Summer fellow 2018)

PhD expected 2020, Environmental Sciences and Engineering

University of North Carolina Gillings School of Public Health

Mentoring role: Primary mentor for summer research project

Erin Sley, MPH (Summer fellow 2018)

Mentoring role: Primary mentor for summer research project and Master's thesis

Current position: PhD student in Epidemiology, University of North Carolina Gillings School of Public Health

Thomas J. van t' Erve, PhD (IRTA postdoctoral fellow 2018)

Mentoring role: Primary mentor

Current position: Toxicologist, Michigan Public Health Institute and Michigan Department of Health and Human Services

Chelsea Clinton, MD (Maternal Fetal Medicine fellow 2016-2019, no NIEHS affiliation)

Duke Hospital

Mentoring role: Primary mentor for research fellowship

Current position: Maternal Fetal Medicine Specialist, Vanderbilt University Medical Center

Stephani Kim, PhD, MPH (IRTA postdoctoral fellow 2017-2019)

Mentoring role: Primary mentor

Current position: Epidemiologist, Nationwide Children's Hospital

Emma Rosen, MPH (Research assistant 2017-2019)

Mentoring role: Primary mentor

Current position: PhD student in Epidemiology, University of North Carolina Gillings School of Public Health

Olufunmilayo Arogbokun, MPH (Summer fellow and special volunteer 2019)

PhD expected 2022, Epidemiology

University of North Carolina Gillings School of Public Health

Mentoring role: Primary mentor for summer internship and independent study

Teaching activities

University of Michigan School of Public Health

EHS 675: Advanced exposure assessment, Guest lectures 2012-2014

EHS 608: Environmental epidemiology, Guest lectures 2014-2015

EHS 504: Genes and the environment, Guest lecture 2015

University of Michigan

Undergraduate Research Opportunity Program, Guest lecture 2013

Environment 310: Environmental chemicals and disease, Guest lectures 2013-2015

Public Health 305: The Environment and Human Health, Guest lecture winter 2014

University of North Carolina Gillings School of Public Health

EPID/MCH 851: Introduction to Reproductive, Perinatal, and Pediatric Epidemiology, Guest lectures 2016-2019

ENVR 601: Epidemiology for Environmental Sciences and Engineering Students. Guest lectures 2017, 2018

EPID 853: Advanced Perinatal and Pediatric Epidemiology, Guest lecture 2018

Nicholas School of the Environment, Duke University

ENV 357: Environmental Health, Guest lectures 2018-2019

Duke University

BIO702/UPGEN712: Succeeding Beyond Graduate School, Guest lecture 2018

Other

ISEE Student and New Researcher Network webinar (2016)

Agency for Toxic Substances and Disease Registry webinar (2018)

Dissertation or Thesis Committees: Current

Paige Bommarito, University of North Carolina Gillings School of Public Health
Department of Environmental Sciences and Engineering, Primary mentor: Rebecca Fry
Dissertation: (title TBD)
(PhD expected 2021)

Bevin Blake, MS University of North Carolina Gillings School of Public Health
Department of Environmental Sciences and Engineering, Primary mentor: Rebecca Fry
Dissertation: (title TBD)
(PhD expected 2020)

Dissertation or Thesis Committees: Former

Dongyu Zhang, University of North Carolina Gillings School of Public Health
Department of Epidemiology, Primary mentor: Hazel Nichols
Dissertation: Tea consumption, oxidative stress, and breast cancer risk
(PhD granted 2018)

Rachel Shaffer, University Washington—Seattle School of Public Health
Department of Environmental and Occupational Health Sciences, Primary mentor:
Sheela Sathyanarayana
Dissertation: Maternal urinary phthalates in relation to gestational diabetes and glucose intolerance during pregnancy (MPH granted 2018)

Stephanie Eick, University of Georgia College of Public Health
Department of Epidemiology and Biostatistics, Primary mentor: Jose Cordero
Dissertation: Psychosocial stress among pregnant women in Puerto Rico (PhD granted 2019)

Professional Activities

Reviewer, University of North Carolina Center for Environmental Health and Susceptibility Pilot Projects, 2017, 2019
PROTECT Training Core External Advisory Board, 2018-present
Current Epidemiology Reports, Reproductive Epidemiology section editor 2019-present

Reviewer for Journals (selected)

American Journal of Epidemiology
American Journal of Obstetrics and Gynecology

British Journal of Obstetrics and Gynecology
Environmental Health
Environmental Health Perspectives (Editorial Review Board)
Environmental Research
Environment International
Epidemiology
Journal of Exposure Science and Environmental Epidemiology
JAMA and JAMA Pediatrics
Paediatric and Perinatal Epidemiology
Pediatrics
Reproductive Toxicology
Science of the Total Environment

NIEHS Committees

Search Committee – Biostatistics and Computational Biology Branch, 2017
Organizer, Epidemiology Branch External Seminar Series, 2016-2018
Organizer, Tenure Track Retreat, 2019
Assembly of Scientists Council, 2018-2019
DIR Metabolomics task force, 2018-present

Invited Presentations

2011

Exploration of oxidative stress and inflammatory markers in relation to urinary phthalate metabolites: NHANES 1999-2006. Selected talk; Superfund Research Program Annual Meeting, Lexington, KY. October 2011.

2013

Associations between urinary phthalate metabolites and biomarkers of inflammation and oxidative stress in pregnant women. Selected talk; International Society for Environmental Epidemiology Conference, Basel, Switzerland. August 2013.

Environmental phthalate exposure is associated with increased odds of preterm birth. Selected talk; International Society for Environmental Epidemiology Conference, Basel, Switzerland. August 2013.

2014

Variability in urinary phthalate metabolite levels across pregnancy and sensitive windows of exposure for the risk of preterm birth. Selected talk; Society for Gynecologic Investigation Annual Meeting, Florence, Italy. March 2014.

Variability in urinary phthalate metabolite levels across pregnancy and sensitive windows of exposure for the risk of preterm birth. Selected talk; International Society for Environmental Epidemiology Conference, Seattle, WA. August 2014.

Mediation of the relationship between phthalate exposure and preterm birth by oxidative stress. Selected talk; International Society for Environmental Epidemiology Conference, Seattle, WA. August 2014.

Phthalate exposure, preterm birth, and potential mechanisms. Invited talk; Phthalate Symposium at Brigham and Women's Hospital, Boston, MA. September 2014.

2015

Mediation of the relationship between phthalate exposure and preterm birth by oxidative stress. Selected talk; NIEHS Center and Training Directors Meeting, Tucson, AZ, April 2015.

Developmental effects of phthalates: what are the mechanisms? Invited talk; Copenhagen Endocrine Disrupters Workshop, Copenhagen, Denmark. April 2015.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina. June 2015.

Associations between urinary bisphenol-A and inflammation and oxidative stress biomarkers in pregnancy. Selected talk; International Society for Environmental Epidemiology Conference, Sao Paulo, Brazil. August 2015.

Associations between phthalate exposure during pregnancy and fetal growth. Selected talk; International Society for Environmental Epidemiology Conference, Sao Paulo, Brazil. August 2015.

2016

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; George Washington University Department of Environmental and Occupational Health Seminar Series, Washington DC. February 2016.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; University of North Carolina Gillings School of Global Public Health Reproductive, Perinatal, and Pediatric Epidemiology Seminar Series, Chapel Hill, North Carolina. March 2016.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; Epigenetics and Stem Cell Biology Laboratory, NIEHS, Research Triangle Park, NC. March 2016.

Associations between urinary PAH and a panel of inflammation, angiogenesis, and oxidative stress biomarkers. Selected talk; International Society for Environmental Epidemiology Conference, Rome, Italy. August 2016.

Mechanisms of endocrine disruptor action in the etiology of preeclampsia. Invited talk; International Society for Environmental Epidemiology Conference, Rome, Italy. August 2016.

Exposure to plasticizers in pregnancy and fetal growth. Invited talk; Environmental and Occupational Epidemiology Seminar, Chapel Hill, NC. September 2016.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; Immunity, Inflammation, and Disease Laboratory, NIEHS, Research Triangle Park, NC. September 2016.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; Duke Integrated Toxicology and Environmental Health Program Seminar, Durham, NC. October 2016.

2017

Oxidative stress and inflammation in growth restriction: evidence from epidemiology. Invited talk; Triangle Consortium for Reproductive Biology, Research Triangle Park, NC. February 2017.

Environmental chemical exposures in pregnancy: what is the role of oxidative stress? Invited talk; Department of Maternal-Fetal Medicine, Brigham and Women's Hospital, Boston, MA. May 2017.

Perinatal and Early Life Epidemiology Group. Invited talk; Reproductive Health Data Meeting, Department of Environmental Health, Harvard T.H. Chan School of Public Health, Boston, MA. May 2017.

Environmental chemical exposures and fetal growth. Invited talk; Robinson Research Institute Seminar Series, University of Adelaide, Adelaide, Australia. September 2017.

Environmental phenol exposures and fetal growth. Selected talk; International Society for Environmental Epidemiology Conference, Sydney, Australia. September 2017.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; Department of Environmental Health Seminar Series, College of Medicine, University of Cincinnati, Cincinnati, OH. October 2017.

Phthalate exposure through school lunches in US children. Invited talk; International Society for Exposure Science Conference, Research Triangle Park, NC. October 2017.

Environmental chemical exposures and fetal growth: Recent advances and next steps. Invited talk; NIEHS Science Days. Research Triangle Park, NC. October 2017.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; Department of Biological Sciences Toxicology Program Seminar, North Carolina State University. Raleigh, NC. November 2017.

2018

Environmental Chemicals and Preterm Birth: Emerging Threats and Priorities for Future Research. Invited webinar; Collaborative on Health and the Environment. March 2018.

Inflammation differentiated from oxidative stress in reproductive epidemiology: Understanding the environmental impact on birth outcomes. Invited talk; Society of Toxicology Annual Meeting. San Antonio, TX. March 2018.

Environmental phthalate exposure, pregnancy outcomes, and underlying biological pathways. Invited talk; Research meeting, Department of Epidemiology, Erasmus Medical Center. Rotterdam, The Netherlands. April 2018.

Biomarkers of environmental chemicals for exposure assessment during pregnancy. Invited webinar; Agency for Toxic Substances and Disease Registry (ATSDR) Environmental Exposure Investigation webinar series. June 2018.

Inflammation vs. oxidative stress in relation to phthalate exposure: Evidence from human and animal studies. Selected talk; International Society for Environmental Epidemiology Conference. Ottawa, Canada. August 2018.

Endocrine Disrupting Chemicals and Adverse Pregnancy Outcomes: Investigation of Oxidative Stress as a Mediator. Invited seminar; Curriculum in Toxicology and Environmental Medicine, University of North Carolina Gillings School of Global Public Health. Chapel Hill, NC. October 2018.

2019

Environmental phthalate exposure and preterm birth: A research update. Invited seminar; Epidemiology and Biostatistics Department, University of Georgia College of Public Health, Athens, GA. March 2019.

Environmental phthalate exposure and preterm birth: A research update. Invited seminar; Vanderbilt University Medical Center, Nashville, TN. April 2019.

Environmental phthalate exposure and preterm birth: A research update. Invited seminar; Reproductive and Developmental Biology Laboratory, NIEHS, Durham, NC. May 2019.

Plasticizers in pregnancy: Exposure and birth outcomes. Invited seminar; First Brazilian seminar on maternal child health and environmental pollutants, Rio de Janeiro, Brazil. June 2019.

Organophosphate pesticide exposure in pregnancy and fetal growth. Selected talk;

Society for Pediatric and Perinatal Epidemiology Research annual meeting. Minneapolis, MN. June 2019.

Prenatal urinary oxidative stress biomarkers and preterm birth. Selected talk; Society for Epidemiologic Research annual meeting. Minneapolis, MN. June 2019.

Environmental phthalate exposure and preterm birth in the Puerto Rico Testsite for Exploring Contamination Threats (PROTECT) birth cohort. Selected talk; International Society for Environmental Epidemiology Conference. Utrecht, the Netherlands. August 2019.

Looking for meaning in chemical mixtures analyses: Three examples from studies of phthalate exposure in pregnancy. Invited seminar; Environmental and Occupational Epidemiology Seminar, Chapel Hill, NC. November 2019.

Organophosphate pesticide exposure and other chemical mixtures in association with ultrasound and delivery measures of fetal growth. Invited seminar; University of North Carolina Center for Environmental Health and Susceptibility seminar, Chapel Hill, NC. December 2019.

Research Papers in Peer-reviewed Journals

1. Horner BM, Eberlin KR, **Ferguson KK**, Hirsh EL, Randolph MA, Butler PE. Recipient damage after musculocutaneous transplant rejection. *Transplantation* 2008; 86(8):1104-10. PMID: 18946349.
2. Horner BM, Randolph MA, Duran-Struuck R, Hirsh EL, **Ferguson KK**, Teague AG, Butler PE, Huang CA. Induction of tolerance to an allogeneic skin flap transplant in a preclinical large animal model. *Transplant Proc* 2009; 41(2):539-41. PMID: 19328921. PMCID: 2796481.
3. Horner BM, **Ferguson KK**, Randolph MA, Spencer JA, Carlson AL, Hirsh EL, Lin CP, Butler PE. In vivo observations of cell trafficking in allotransplanted vascularized skin flaps and conventional skin grafts. *J Plast Reconstr Aesthet Surg* 2010; 63(4):711-9. PMID: 19324598. PMCID: 2796481.
4. Duran-Struuck R, Cho PS, Teague AG, Fishman B, Fishman AS, Hanekamp JS, Moran SG, Wikel KJ, **Ferguson KK**, Lo DP, Duggan M, Arn JS, Billiter B, Horner B, Houser S, Yeap BY, Westmoreland SV, Spitzer TR, McMorrow IM, Sachs DH, Bronson RT, Huang CA. Myelogenous leukemia in adult inbred MHC-defined miniature swine: a model for human myeloid leukemias. *Vet Immunol Immunopathol* 2010; 135(3-4): 243-56. PMID: 20079939. PMCID: 2879595.
5. Sutanto MM, **Ferguson KK**, Sakuma H, Ye H, Brady MJ, Cohen RN. The silencing mediator of retinoid and thyroid hormone receptors (SMRT) regulates adipose tissue accumulation and adipocyte insulin sensitivity in vivo. *J Biol Chem* 2010; 285(24):18485-95. PMID: 20371609. PMCID: 2881774.
6. Lutton BV, Cho PS, Hirsh EL, **Ferguson KK**, Teague AG, Hanekamp JS, Chi N, Goldman SN, Messina DJ, Houser S, Yeap BY, Popma SH, Sachs DH, Huang CA. Approaches to avoid immune responses induced by repeated subcutaneous injections of allogeneic umbilical cord tissue-derived cells. *Transplantation* 2010; 90(5):494-501. PMID: 21451445. PMCID: 3740357.
7. **Ferguson KK**, Loch-Caruso R, Meeker JD. Urinary phthalate metabolites in relation to biomarkers of inflammation and oxidative stress: NHANES 1999-2006. *Environ Res* 2011; 111(5):718-26. PMID: 21349512. PMCID: 3110976.
8. Meeker JD, **Ferguson KK**. Relationship between urinary phthalate and bisphenol A concentrations and serum thyroid measures in U.S. adults and adolescents from the

- National Health and Nutrition Examination Survey (NHANES) 2007-2008. *Environ Health Perspect* 2011; 119(10):1396-402. NIEHS Extramural Paper of the Month, August 2011. PMID: 21749963. PMCID: 3230451.
9. **Ferguson KK**, Loch-Caruso RK, Meeker J. Exploration of oxidative stress and inflammatory markers in relation to urinary phthalate metabolites: NHANES 1999-2006. *Environ Sci Technol* 2011; 46(1):477-85. PMID: 22085025. PMCID: 3230451.
 10. **Ferguson KK**, Hauser R, Altshul L, Meeker JD. Serum concentrations of PCBs and reproductive hormones among men of reproductive age. *Reprod Toxicol* 2012; 34(3):429-35. PMID: 22564984. PMCID: 3419818.
 11. Benedict MD, Missmer SA, **Ferguson KK**, Vitonis AF, Cramer DW, Meeker JD. Secondhand tobacco smoke exposure is associated with prolactin but not thyroid stimulating hormone among nonsmoking women seeking in vitro fertilization. *Environ Toxicol Pharmacol* 2012; 34(3):761-7. PMID: 23046534. PMCID: 3514562.
 12. Koeppe ES, **Ferguson KK**, Colacino JA, Meeker JD. Relationships between urinary triclosan and paraben concentrations and serum thyroid measures in NHANES 2007-2008. *Sci Total Environ* 2013; 34(3):299-305. PMID: 23340023. PMCID: 3572338.
 13. Meeker JD, Cantonwine DE, Rivera-González LO, **Ferguson KK**, Mukherjee B, Calafat AM, Ye X, Anzalota Del Toro LV, Crespo-Hernández N, Jiménez-Vélez B, Alshawabkeh AN, Cordero JF. Distribution, variability, and predictors of urinary concentrations of phenols and parabens among pregnant women in Puerto Rico. *Environ Sci Technol* 2013; 47(7):3439-47. PMID: 23469879. PMCID: 3638245.
 14. **Ferguson KK**, O'Neill MS, Meeker JD. Environmental contaminant exposures and preterm birth: a comprehensive review. *J Toxicol Environ Health B Crit Rev* 2013; 16(2):69-113. PMID: 23682677. PMCID: 3889157.
 15. Sun Z, Tao Y, Li S, **Ferguson KK**, Meeker JD, Park SK, Batterman SA, Mukherjee B. Statistical strategies for constructing health risk models with multiple pollutants and their interactions: possible choices and comparisons. *Environ Health* 2013; 12(1):85. PMID: 24093917. PMCID: 2857674.
 16. Cantonwine DE, Cordero JF, Rivera- González LO, Anzalota Del Toro LV, **Ferguson KK**, Mukherjee B, Calafat AM, Crespo N, Jiménez-Vélez B, Padilla IY, Alshawabkeh AN, Meeker JD. Urinary phthalate metabolite concentrations among pregnant women in Northern Puerto Rico: Distribution, temporal variability, and predictors. *Environ Int* 2013; 62:1-11. PMID: 24161445. PMCID: 3874859.
 17. **Ferguson KK**, McElrath TF, Meeker JD. Environmental phthalate exposure and preterm birth. *JAMA Pediatrics* 2014; 168(1):61-7. PMID: 24247736. PMCID: 4005250. Commentary: Swan SH. Environmental phthalate exposure and the odds of preterm birth: an important contribution to environmental reproductive epidemiology, 14-5. NIEHS Extramural Paper of the Month, January 2014; NIEHS Extramural Paper of the Year, January 2015.
 18. 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. *Environ Res* 2014; 131:6-12. PMID: 24607659. PMCID: 4057047.
 19. **Ferguson KK**, Cantonwine DE, Rivera-González LO, Loch-Caruso R, Mukherjee B, Anzalota Del Toro L, Jimenez-Velez B, Calafat A, Ye X, Alshawabkeh A, Cordero J, Meeker JD. Urinary phthalate metabolite associations with biomarkers of inflammation and oxidative stress across pregnancy in Puerto Rico. *Environ Sci Technol* 2014; 48(12):7018-25. PMID: 24845688. PMCID: 4066910.

20. **Ferguson KK**, McElrath TF, Ko Y, Mukherjee B, Meeker JD. Variability in urinary phthalate metabolite levels across pregnancy and sensitive windows of exposure for the risk of preterm birth. *Environ Int* 2014; 70:118-24. PMID: 24934852. PMCID: 4104181.
21. **Ferguson KK**, Peterson KE, Lee JM, Mercado-García, Goldenberg CB, Téllez-Rojo MM, Meeker JD. Prenatal and peripubertal phthalates and BPA in relation to sex hormones and puberty in boys. *Reprod Toxicol* 2014; 47:70-6. PMID: 24945889. PMCID: 4117729.
22. **Ferguson KK**, McElrath TF, Chen YH, Mukherjee B, Meeker JD. Longitudinal profiling of inflammatory cytokines and C-reactive protein during uncomplicated and preterm pregnancy. *Am J Reprod Immunol* 2014; 72(3):326-36. PMID: 24807462. PMCID: 4573571.
23. Meeker JD, **Ferguson KK**. Urinary phthalate metabolites are associated with decreased serum testosterone in men, women and children from NHANES 2011-2012. *J Clin Endocrinol Metab* 2014; 99(11):4346-52. PMID: 25121464. PMCID: 4223430.
24. Watkins DJ, Téllez-Rojo MM, **Ferguson KK**, Lee JM, Solano-Gonzalez M, Blank-Goldenberg C, Peterson KE, Meeker JD. In utero and peripubertal exposure to phthalates and BPA in relation to female sexual maturation. *Environ Res* 2014; 134:233-41. PMID: 25173057. PMCID: 4262586.
25. **Ferguson KK**, McElrath TF, Chen YH, Mukherjee B, Meeker JD. Urinary phthalate metabolites and biomarkers of oxidative stress in pregnant women: a repeated measures analysis. *Environ Health Perspect* 2015; 123(3):210-6. PMID: 25402001. PMCID: 4348741.
26. **Ferguson KK**, McElrath TF, Chen YH, Mukherjee B, Loch-Carusio R, Meeker JD. Repeated measures of urinary oxidative stress biomarkers during pregnancy and preterm birth. *Am J Obstet Gynecol* 2015; 212(2):208.e1-8. PMID: 25111586. PMCID: 4312513.
27. Watkins DJ, **Ferguson KK**, Anzalota Del Toro LV, Alshawabkey AN, Cordero JF, Meeker JD. Associations between urinary phenol and paraben concentrations and markers of oxidative stress and inflammation among pregnant women in Puerto Rico. *Int J Hyg Environ Health* 2015; 218(2):212-9. PMID: 25435060. PMCID: 4323928.
28. Johns LE, **Ferguson KK**, Soldin OP, Cantonwine DE, Rivera-Gonzalez LO, Anzalota Del Toro LV, Calafat AM, Ye X, Alshawabkeh AN, Cordero JF, Meeker JD. Urinary phthalate metabolites in relation to maternal thyroid and sex hormone levels during pregnancy. *Reprod Biol Endocrinol* 2015; 13(1):4. PMID: 25596636. PMCID: 4326411.
29. Chen YH*, **Ferguson KK***, Meeker JD, McElrath TF, Mukherjee B. Statistical methods for modeling repeated measures of maternal environmental exposure biomarkers during pregnancy in association with preterm birth. *Environ Health* 2015; 14(1):9. PMID: 25619201. PMCID: 4417225. *Note: These authors contributed equally to this manuscript.
30. **Ferguson KK**, McElrath TF, Mukherjee B, Meeker JD. Phthalate metabolites and bisphenol-A in association with circulating biomarkers of placental function across pregnancy. *Placenta* 2015; 36(6):699-703. PMID: 25913709. PMCID: 4441857.
31. Cantonwine DE, **Ferguson KK**, McElrath TF, Mukherjee B, Meeker JD. Urinary bisphenol A levels during pregnancy and the risk of preterm birth. *Environ Health Perspect* 2015; 123(9):895-901. PMID: 25815860. PMCID: 4559950.
32. **Ferguson KK**, McElrath TF, Mukherjee B, Loch-Carusio R, Meeker JD. Associations between maternal biomarkers of phthalate exposure and inflammation using repeated measurements across pregnancy. *PLoS One* 2015; 10(8):e0135601. PMID: 26317519. PMCID: 4552851.
33. Cantonwine DE, Meeker JD, **Ferguson KK**, Mukherjee B, Hauser R, McElrath TM.

- Urinary concentrations of bisphenol A and phthalate metabolites measured during pregnancy and risk of preeclampsia. *Environ Health Perspect* 2015; 123(9):895-901. PMID: 27177253. PMCID: 5047771.
34. Watkins D, Peterson KE, **Ferguson KK**, Mercado-Garcia A, Cantoral A, Meeker JD, Tellez-Rojo MM. Relating phthalate and BPA exposure to metabolism in peripubescence: the role of exposure timing, sex, and puberty. *J Clin Endocrinol Metab* 2016; 101(1):79-88. PMID: 26529628. PMCID: 4701847.
 35. Cantonwine DE, **Ferguson KK**, Mukherjee B, Chen YH, Smith NA, Robinson JN, Doubilet PM, Meeker JD, McElrath TF. Utilizing longitudinal measures of fetal growth to create a standard method to assess the impacts of maternal disease and environmental exposure. *PLoS One* 2016; 11(1):e0146532. PMID: 26731406. PMCID: 4701464.
 36. James-Todd TM, Meeker JD, Huang T, Hauser R, Seely EW, **Ferguson KK**, Rich-Edwards JW, McElrath TF. Racial and ethnic changes in phthalate metabolite concentration changes across full-term pregnancies. *J Expo Sci Environ Epidemiol* 2017; 27(2):160-6. PMID: 26860587. PMCID: 4980273.
 37. **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. *J Expo Sci Environ Epidemiol* 2016 [epub ahead of print]. PMID: 27168391.
 38. Chen YH, Mukherjee B, **Ferguson KK**, Meeker JD, VanderWeele TJ. Mediation formula for binary outcome and time-varying exposure and mediator accounting for possible exposure-mediator interaction. *Am J Epidemiol* 2016; 184(2):157-9. PMID: 27325886. PMCID: 4945703.
 39. Johns LE, **Ferguson KK**, McElrath TF, Mukherjee B, Meeker JD. Associations between repeated measures of maternal urinary phthalate metabolites and thyroid hormone parameters during pregnancy. *Environ Health Perspect* 2016; 124(11):1808-15. PMID: 27152641. PMCID: 5089879.
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