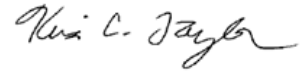


Kira C. Taylor

Curriculum Vitae

Date: 5/30/2023

Signature:



I. CONTACT INFORMATION

University of Louisville
School of Public Health and Information Sciences
485 E Gray St
Louisville, KY 40202
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Office phone: (502) 852-4063
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Email: kctayl04@louisville.edu

II. EDUCATION

B.A., Biology Rice University Houston, TX, USA	1993-1997
M.S., Biological Sciences Stanford University Stanford, CA, USA Area of specialization: Molecular Genetics	1997-1999
M.A.Ed., Secondary Science Education Wake Forest University Winston-Salem, NC, USA	1999-2000
Ph.D., Epidemiology Emory University Atlanta, GA, USA Chair: Michele Marcus, Ph.D., Professor of Epidemiology Dissertation: "Genetic and Environmental Influences on Reproductive Characteristics"	2004-2009
Postdoctoral Fellowship, Epidemiology The University of North Carolina at Chapel Hill Chapel Hill, NC, USA Department of Epidemiology Advisor: Kari E. North, Ph.D., Professor of Epidemiology Area of research focus: Genetic Epidemiology	2009-2011

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III. PROFESSIONAL EXPERIENCE AND EMPLOYMENT

Teaching Assistant Department of Human Genetics, Department of Biological Sciences Stanford University	1998-1999
Chemistry and Honors Biology Teacher The Westminster Schools, Atlanta, GA (High School)	2000-2002
Biology and Environmental Science Teacher TASIS-The American School in England (High School)	2002-2004
Teaching Assistant Department of Epidemiology, Emory University	2005-2008
Assistant Professor of Epidemiology Department of Epidemiology and Population Health University of Louisville School of Public Health and Information Sciences	2011-2017
Associate Professor of Epidemiology Department of Epidemiology and Population Health University of Louisville School of Public Health and Information Sciences Tenure Awarded, July 1 2017	2017-present

III. HONORS, AWARDS and FELLOWSHIPS

Magna Cum Laude, Rice University graduation honors	1997
National Science Foundation Predoctoral Fellowship	1997-1999
Woodrow Wilson Teaching Fellow	2002
Summer Research Fellow National Institutes of Child Health and Development	2005
Woodruff Fellow, Emory University	2004-2009
Environmental Protection Agency STAR Fellow Project: Polybrominated Biphenyl Exposure and Reproductive Hormone Levels	2007-2009
National Research Service Award Postdoctoral fellowship, University of North Carolina at Chapel Hill Department of Epidemiology, Cardiovascular Epidemiology Program	2009-2011
University of Louisville Faculty Favorite Nomination	2013, 2015, 2019, 2020, 2021
B.A.+1 student, Meredith Cahill, winner of 2019 Research! Louisville, MPH division	2019
Doctoral Student, T'shura Ali, Dissertation Completion Award	2020
Doctoral Student, Emily Reece, 2 nd place in 2021 Research! Louisville, PhD division	2021
Doctoral Student, Emily Reece, Dissertation Completion Award	2022

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Doctoral Student, Aastha Kakar, Dissertation Completion Award

2023

V. PROFESSIONAL ASSOCIATIONS

American College of Epidemiology (ACE) - Current

Journal: *Annals of Epidemiology*

Society for Pediatric and Perinatal Epidemiologic Research (SPER) - Current

Journal: *Paediatric and Perinatal Epidemiology*

American Society of Human Genetics (ASHG) - Current

Journal: *American Journal of Human Genetics (AJHG)*

American Heart Association (AHA) - Past

Journal: *Journal of the American Heart Association (JAHA)*

Society for Epidemiologic Research (SER) - Past

Journals: *American Journal of Epidemiology, Epidemiologic Reviews*

The Obesity Society (TOS) - Past

Journal: *Obesity*

VI. TEACHING AND MENTORING ACTIVITIES

A. Teaching Activities Prior to Employment at the University of Louisville

Teaching Assistant, Stanford University Biology III (Human Anatomy and Physiology) Advanced Genetics	1998-1999
Chemistry and Honors Biology Teacher, The Westminster Schools, Atlanta, GA	2000-2002
Biology and AP Environmental Science Teacher, The American School in England	2002-2004
Teaching Assistant, Emory University Epidemiologic Methods I Epidemiology Methods II Modeling SAS Programming	2005-2008
Co-Instructor, Emory University Analytical Methods for Clinical and Translational Research Statistical Theory for Epidemiologists (with Dr. Mitch Klein)	2008, 2009
Co- Instructor, Erasmus University Summer Programme, The Netherlands Survival Analysis 1-week Summer Course (with Dr. David Kleinbaum)	2008, 2009
Short Course Developer and Instructor, UNC-Chapel Hill	2011

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Genetic Association Analysis Tools

B. Teaching Activities at the University of Louisville (fall 2011-present), by semester

Classroom Teaching Summary (Course title and years taught)

- Graduate-level courses (M.S. and Ph.D. students)

Advanced Epidemiologic Methods II – 2018-2021
Statistical Foundations for Epidemiology – 2012, 2013, 2015-2021
Genetic and Molecular Epidemiology - 2012, 2014, 2015
Reproductive Epidemiology – 2013, 2014
Epidemiology of Chronic and Cardiovascular Disease-- 2016
Data Management and Analysis I-- 2019, 2020, 2021

- Undergraduate courses

Epidemiologic Methods and Concepts for Public Health – 2015-2022
Applied Data Analysis for Epidemiology– planned for Spring 2023

Detailed Teaching History (courses not underlined are independent studies)

Spring 2012

1. Genetic and Molecular Epidemiology (PHEP 606) (3 hours) - *Course director and instructor. Substantially revised course.*
2. Thesis research (PHEP 666)
3. Readings and Research in Epidemiology (PHEP 778)

Fall 2012

1. Statistical Foundations for Epidemiology (then PHEP 650) (4 hours) - *Course developer, director and instructor.*
2. Thesis Research (PHEP 666) (2 students)
3. Readings and Research in Epidemiology (PHEP 778)

Spring 2013

1. Reproductive Epidemiology (PHEP 615) (3 hours) - *Course director and co-instructor. Substantially revised course.*

Fall 2013

1. Statistical Foundations for Epidemiology (PHEP 621) (4 hours)
2. Thesis Research (PHEP 666) (2 students)

Spring 2014

1. Genetic and Molecular Epidemiology (PHEP 606) (3 hours)
2. Thesis Research (PHEP 666) (2 students)
3. Readings and Research in Epidemiology (PHEP 778)

Fall 2014

1. Reproductive Epidemiology (PHEP 615) (3 hours) - *Co-instructor (30% of lectures).*

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Spring 2015

1. Epidemiologic Concepts and Methods for Public Health (PHUN 441) (3 hours) - *Course developer, director and instructor.*
2. Genetic and Molecular Epidemiology (PHEP 606) (3 hours)

Summer 2015

1. Readings and Research in Epidemiology (PHEP 778)
2. MPH Practicum Advisor (PHEP 679) (4 students)

Fall 2015

1. Statistical Foundations for Epidemiology (PHEP 621) (4 hours)
2. MPH Practicum Advisor (PHEP 679) (4 students)
3. Readings and Research in Epidemiology (PHEP 778)

Spring 2016

1. Epidemiologic Concepts and Methods for Public Health (PHUN 441) (3 hours)
2. Epidemiology of Cardiovascular and Chronic Diseases (PHEP 609) (2 hours) - *Course director and instructor. Substantially revised course.*
3. MPH Practicum Advisor (PHEP 679) (4 students)
4. Readings and Research in Epidemiology (PHEP 778)

Summer 2016

1. Readings and Research in Epidemiology (PHEP 778) (2 students)
2. Thesis Research (PHEP 666)
3. MPH Practicum Advisor (PHEP 679) (2 students)

Fall 2016

1. Statistical Foundations for Epidemiology (PHEP 621) (4 hours)
2. Thesis Research (PHEP 666)
3. MPH Practicum Advisor (PHEP 679) (2 students)

Spring 2017

1. Epidemiologic Concepts and Methods for Public Health (PHUN 441) (3 hours)
2. MPH Practicum Advisor (PHEP 679) (2 students)
3. Seminar in Epidemiology (PHEP 750-01)
4. Applied Reproductive Epidemiology (PHEP 666-04)

Summer 2017

1. Applied Reproductive Epidemiology (PHEP 778-03 and PHEP 778-04)

Fall 2017

1. Statistical Foundations for Epidemiology (PHEP 621) (4 hours)
2. Critical Review of Journal Articles in Reproductive Epidemiology (PHEP 778-04)

Spring 2018

1. Epidemiologic Concepts and Methods for Public Health (PHUN 441) (3 hours)
2. Statistics for Epidemiology (PHEP 666-04)
3. Introduction to Genetic Epi (PHEP 778-01)
4. Data analysis: Passive Smoking and Ovarian Reserve (PHEP 778-02)

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5. Reproductive Epidemiology (PHEP 778-03)

Summer 2018

1. Statistics for Epidemiology (PHEP 666-04)
2. Introduction to Genetic Epi (PHEP 778-01)
3. Reproductive Epidemiology (PHEP 778-03)

Fall 2018

1. Advanced Epidemiologic Methods II (PHEP 701) (3 hours)
2. Statistical Foundations for Epidemiology (PHEP 621) (3 hours)
3. Reproductive Epidemiology (PHEP 778-03)

Spring 2019

1. Epidemiologic Concepts and Methods for Public Health (PHEP 441) (3 hours)
2. Integrative Experience in Public Health (PHEP 666-04)
3. Genetic Epidemiology of Obesity (PHEP 778-01)
4. Thesis Research (PHEP 666)

Fall 2019

1. Advanced Epidemiologic Methods II (PHEP 701) (3 hours)
2. Statistical Foundations for Epidemiology (PHEP 621) (3 hours)
3. Epi Data Management and Analysis (PHEP 648-01) (1 hour)

Spring 2020

1. Epidemiologic Concepts and Methods for Public Health (PHEP 441) (3 hours)
2. Integrative Experience in Public Health (PHEP 666-04)
3. Thesis Research (PHEP 666)

Fall 2020

1. Advanced Epidemiologic Methods II (PHEP 701) (3 hours)
2. Statistical Foundations for Epidemiology (PHEP 621) (3 hours)
3. Epi Data Management and Analysis (PHEP 648-01) (1 hour)

Spring 2021

1. Epidemiologic Concepts and Methods for Public Health (PHEP 441) (3 hours)
2. Integrative Experience in Public Health (PHEP 666)
3. Thesis Research (PHEP 666)
4. Independent Study (PHEP 778)- Genetic Epidemiology of Suicidal Behavior

Summer 2021

1. Epidemiologic Methods (PHEP 602)(3 hours) Co-taught with Natalie DuPre
2. Independent Study (PHEP 778) - Reproductive Epidemiology (3 hours)
3. Independent Study (PHEP 778) - Genetic Epidemiology (3 hours)
4. Thesis Research (PHEP-666)

Fall 2021

1. Advanced Epidemiologic Methods II (PHEP 701) (3 hours)
2. Statistical Foundations for Epidemiology (PHEP 621) (3 hours)
3. Epi Data Management and Analysis (PHEP 648) (1 hour)
4. Independent Study (PHEP 778) – Race and Hysterectomy

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Spring 2022

1. Epidemiologic Concepts and Methods for Public Health (PHEP 341) (3 hours)

Fall 2022

1. Advanced Epidemiologic Methods II (PHEP 701) (3 hours)
2. Statistical Foundations for Epidemiology (PHEP 621) (4 hours)

Spring 2023

1. Epidemiologic Concepts and Methods for Public Health (PHEP 341) (3 hours)
2. Applied Data Analysis for Epidemiology (PHEP 446) (3 hours)

Summer 2023 (planned)

1. Genetic and Molecular Epidemiology (PHEP 606) (3 hours)

C. Mentoring

1. Students for whom I serve(d) as **Advisor and Committee Chair**

a. Epidemiology Ph.D. Program

Islamiat Oladipupo, Ph.D., 2018

Dissertation: “Active Smoking and Fertility-Related Outcomes, with Effect Modification by Race and NAT2 genotype”

Stacey Konkle, Ph.D., 2020

Dissertation: “Volatile organic compound exposure and cardiometabolic syndrome risk in a nationally representative cohort.”

T’shura Ali, Ph.D., 2020

Dissertation: “Environmental Tobacco Smoke and Fertility-Related Outcomes”

Mohammad Yaser, Ph.D., 2020

Dissertation: “Genetic Influences on Obesity and Inflammation in a Hispanic/Latino Cohort.”

Emily Reece, Ph.D. May 2022

Dissertation: “The association between tear gas exposure and menstrual cycle function among protestors.”

Damilola Owoade, Ph.D. expected, August 2023

Dissertation: Environmental exposures and male reproductive health

Aastha Kakar, Ph.D. expected, December 2023

Dissertation: Genetic risk scores for hypertension and chronic kidney disease in the Jackson Heart Study.

b. Epidemiology M.S. Program

Jersy Napoleon, M.S., 2012

Thesis: “Genetic variation in the renin-angiotensin system: associations with blood pressure dipping in the Jackson Heart Study.”

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Nwakile Ojike, M.S., 2013

Thesis: "Motorcycle user habits and trauma outcomes."

Ximena Oyarzun Gonzales, Pharm. D., M.S., 2014

Thesis: "Prescription medication and cognitive decline in the aging process study."

Sekufe Akhter, M.S., 2014

Thesis: "Preconception stress and fecundability in the Mount Sinai Study of Women Office Workers."

Emily Reece, M.S., 2017

Thesis: "The effect of caffeine on fecundability: differences in coffee, tea, and cola consumption."

Lindsey Wood, M.S., 2019

Thesis: "Interaction between sexually transmitted infections and infertility diagnosis on natural conception following fertility counseling."

Erica Miller, M.S., 2021

Thesis: "The association between depression and anxiety with COVID-19 outcomes."

c. Clinical Investigation Sciences (M.Sc.) Graduate Program

Dr. Robert Hunter, M.D., F.A.C.O.G., M.Sc., 2014

Manuscript: "Prognostic value of endometrial thickness on pregnancy outcomes of subgroups of infertile women undergoing ovulation induction/intrauterine insemination therapy."

2. Students for whom I serve(d) as a **Committee Member**

a. Epidemiology Ph.D. Program

Macarius Donneyong, Ph.D., 2013

Dissertation: "Combined Calcium and Vitamin D Supplementation among Postmenopausal Women: Effect on Risk of Hospitalized Heart Failure in the Women's Health Initiative (WHI) Study."

Peter Ahiawodzi, Ph.D., 2014

Dissertation: "Markers and Mechanisms of Metabolic Aging."

Clara Sears, Ph.D., 2017

Dissertation: "The particulars about particulates: metal exposure and self-regulation of children living near coal ash."

Evie Pierce, Ph.D., 2018

Dissertation: "Macrolide empiric therapy is not associated with early clinical improvement in hospitalized patients with pneumonia: an assessment of confounding by indication."

Teresa McGeeney, Ph.D., 2019

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Dissertation: “Handgun carrying patterns and suicide risk among youth.”

Diana Kuo, Ph.D., 2019

Dissertation: “Polydrug Use in People Who Use Opioids (PWUO) in the United States, 2002-2016.”

Jack Pfeiffer, Ph.D., 2021

Dissertation: “Particulate matter exposure and community-acquired pneumonia mortality among Hospitalized Adults with Pneumococcal Pneumonia: Incidence Study (HAPPI) participants.”

Lindsey Wood, Ph.D. 2022

Dissertation: “Environmental Noise Exposure and its Association with Elementary Standardized Testing Scores and Adult Mental Ill-Health in Jefferson County, Kentucky.”

Lyndsay Blair, Ph.D. 2022

Dissertation: “Investigating the relationships between socioeconomic status, kratom legalization, and the covid-19 pandemic on opioid overdose mortality in the United States.”

Kahir Jawad, Ph.D. expected, ?

Dissertation: “Prevalence and determinants of hypertensive disorders of pregnancy in the US: delivery hospitalizations rate involving preeclampsia, eclampsia, and gestational hypertension, 2016-2018.”

Kendria Kelly-Taylor, Ph.D. 2023

Dissertation: Adverse Birth Outcomes: Investigating the Role of Nativity and Perceived Racial Discrimination Among Black Mothers Enrolled in Des Moines, Iowa Healthy Start

Felicia Pugh, PhD expected, 2024

Dissertation: Ambient metal exposures and maternal/infant outcomes in Louisville, KY.

b. Environmental Health Ph.D. Program

Katlyn McGraw, Ph.D., May 2021

Dissertation: “Volatile organic compounds and cardiovascular disease in the Healthy Heart Study.”

c. Clinical Investigation Sciences (M.Sc.) Graduate Program

Dr. Ali Azadi, M.D., M.Sc., 2012

Manuscript: “The effect of body mass index (BMI) in perioperative outcomes in patients undergoing robotic assisted sacrocolpopexy for pelvic organ prolapse.”

Dr. Crystal Clark, M.D., M.Sc., 2012

Manuscript: “Lamotrigine Dosing for Patients with Bipolar Disorder”

Dr. Lori Devlin, DO MHA, FAAP; M.Sc. August 2016.

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Manuscript: “Comparing the Impact of Two Standardized Treatment Protocols for Neonatal Abstinence Syndrome on the Length of Treatment and Length of Hospital Stay.”

3. Other Research Mentoring Activities

Research Mentor for Sachiko Yoneyama, Ph.D. student in Epidemiology at UNC-Chapel Hill, 2011-2014.

Research mentor for Sashia Torres, undergraduate and MPH student, 2016-present. Sashia currently works in various capacities for the LOUSSI study (NIH R15 grant).

Research mentor for Tesla Koza, undergraduate student, 2017-2018. Tesla currently works in various capacities for the LOUSSI study (NIH R15 grant).

Research mentor for Meredith Cahill, undergraduate 4+1 student, 2019-present. Meredith performed an analysis of PCOS in the LOUSSI study and won the Research! Louisville MPH/MS division. She is now doing a community needs assessment of pregnancy-related care in rural Kentucky.

Research mentor for Madeline Tomlinson, Ph.D. student, 2020-2021. In conjunction with a team of investigators, Maddie is working on a questionnaire about health effects of tear gas, to administer to protestors who may have been exposed to tear gas.

Research mentor for Damilola Owoada, Ph.D. student, 2021-present. Dami has been investigation various topics for possible dissertation research, and has analyzed the tear gas data for associations with male reproductive effects. She has submitted a poster to SPER (Society of Pediatric and Perinatal Research) for their 2022 annual conference, entitled “Acute tear gas exposure symptoms and adverse male reproductive outcomes.”

Research mentor for Aastha Kakar, Ph.D. student, 2021-present. Aastha is interested in pursuing genetic epidemiology as a career. I have been working with her to develop a proposal to create and test a genetic risk score for hypertension in African-Americans, using data from the Jackson Heart Study.

Research mentor for the Cancer Health and Disparity Summer Bridge Program, summer 2022, for incoming freshman, Quavon Calvin. Research topic: stress, lifestyle factors and fertility. Also taught several lectures to public health program participants regarding statistics in research.

4. Recent MPH program mentees

Sashia Torres, MPH, 2019

Andrew Patterson, MPH, 2020

Meredith Cahill, MPH, 2021

Katrina Dunn, MPH, 2021

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Nicholas Herring, MPH, 2023

Peyton Lane, MPH, 2023

Joshua Rodeheaver, MPH, 2023

Dilan Salt, MPH, 2023

Rafael Reyes-Font, MPH expected, 2024

Claudia Ojeda Alberteris, MPH expected, 2024

Guest Lectures

Epidemiology, Morehouse School of Medicine Public Health Summer Fellows Program, 2008.
Lecturer. (6 lectures)

Genetic Epidemiology, University of North Carolina at Chapel Hill, 2010, 2011
Guest lecturer (1 lecture)

Guest lecturer, University of Louisville, fall 2011.
Epidemiologic Methods II (2 lectures)
Cardiovascular Disease Epidemiology (1 lecture)

Introduction to Biostatistics: Special Topics in Pharmacology & Toxicology with Emphasis on
Statistics (PHTX 618). “Introduction to Statistical Methods”, (4 lectures), summer 2012

Population Pathology (PHEP 622) guest lecture, “Introduction to Reproductive Epidemiology”,
spring 2014 and summer 2014.

D. Professional Workshops delivered

“Introduction to Genetic Association Analysis: Theory and Practice”, American College of
Epidemiology (ACE) Annual Meeting Workshop, October 2013

E. Lectures on Pedagogy for Faculty Development

“What You Can Do to Help Your Students Learn the Content.” School of Public Health and
Information Sciences, University of Louisville Teaching and Learning Workshop Series,
January 25, 2013

“Motivating Students.” School of Public Health and Information Sciences, University of
Louisville Teaching and Learning Workshop Series, May 31, 2013 (with Dr. Richard
Wilson)

“Motivating Students.” Delphi Center Celebration of Teaching and Learning, February 7, 2014
(with Dr. Richard Wilson)

F. Internal Pedagogical Grants, Funded

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Type of grant: i2a (ideas-to-action) SUN grant: Supporting Undergraduate Education
Funding agency: University of Louisville Delphi Center for Teaching and Learning
Title: “Critical Thinking & Pedagogy for the Undergraduate Program in Public Health”
Amount: \$11,250 to the School of Public Health and Information Sciences
Funding period: 2012-2013
Authors: Kira Taylor and Pete Walton

G. Invited Talks and Seminars

- “Epidemiology of menstrual function: a study of genetic influences.”
The University of California at San Francisco, March 12, 2009.
- “Genetic variation and gene-environment interaction influencing fertility.”
The University of North Carolina at Chapel Hill, June 17, 2009.
- “Genetic and environmental influences on reproductive traits.”
Emory University, September 29, 2009.
- “A gene-centric association scan for coagulation factor VII levels in multi-ethnic populations.”
University of Massachusetts-Amherst, February 17, 2011.
- “Genetic Epidemiology of Cardiovascular Disease Risk Factors: My Life of Acronyms and Consortia, Deconstructed.”
University of Louisville, Department of Biostatistics Seminar Series, October 28, 2011.
- “Error and Bias in Epidemiologic Study Designs.”
OBGYN Clinical Research Fellows Research Day, University of Louisville, September 27, 2013.
- “Directed Acyclic Graphs: No-Nonsense Causal Diagrams.”
Department of Epidemiology and Population Health Seminar Series, University of Louisville, January 9, 2014.
- “Variation in Human Fertility.”
Department of Epidemiology and Population Health Seminar Series, University of Louisville, September 11, 2014.
- “The Impact of Preconception Maternal Stress on Fecundability and Pregnancy Outcomes.”
University of Louisville Reproductive Endocrinology and Infertility Didactic Series. March 16, 2015.
- “Random vs. Systematic Error in Fecundability Studies.”
University of Louisville Reproductive Endocrinology and Infertility Didactic Series. June 29, 2015.
- “Secondhand Smoking, Genetic Susceptibility to Smoking, and Infertility.”
University of Louisville Reproductive Endocrinology and Infertility Didactic Series. February 29, 2016.
- “Secondhand Smoking, Genetic Susceptibility to Smoking: associations with fecundability and spontaneous abortion.”

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University of Louisville Reproductive Endocrinology and Infertility Didactic Series.
February, 2019.

I. Professional Development – Teaching

Delphi Center for Teaching and Learning, School of Public Health and Information Sciences
Faculty Learning Community, 2011-2014, 2018-2019, and 2019-2020

Delphi Center for Teaching and Learning, Digital Teaching Accelerator Program, May 2023

VII. RESEARCH FUNDING

A. Extramural grants/contracts

Ongoing support

- 1) Title: Integrated Health Science Facility Core (IHSFC) Environmental Health Sciences Core Centers (EHSCC)
Award Number: 5P30ES030283-03
Funding organization: NIH
PI: Christopher States
Effort: 2%
Total costs: \$1,250,000
Funding period: 6/1/22-3/31/24

Completed support

- 2) Title: The interaction between NAT2 acetylator status and exposure to tobacco smoke on ovarian reserve and in vitro fertilization outcomes

Funding organization: NICHD, through the NIH R15 parent program. (R15-HS087911)
PI: Kira Taylor
Effort: 20% effort in YO1 and YO2, 10% effort in YO3
Total costs: \$440,336
Direct costs: \$300,000
Funding period: July 8, 2016-June 30, 2019
Co-investigators: David Hein, Henry Bohler, Rachel Neal

Description: The aim of this research is to further the understanding of the role that gene-environment interactions play in female infertility. The harmful effects of smoking on fertility may be even more pronounced in patients who carry a particular slow-acetylator form of a gene, *NAT2*, which plays an important role in the metabolism of aromatic amines found in tobacco smoke. The effects of active and passive smoking, *NAT2*, and their combined effects on ovarian reserve and *in vitro* fertilization will be estimated.

B. Extramural grant subcontracts

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1) Title: Genetic Epidemiology of Causal Variants Across the Life Course

Funding organization: National Institutes of Health
Project number: 5U01HG004803-04
PI: Gerardo Heiss, University of North Carolina at Chapel Hill
Role: Subcontractor
Total costs: \$36,743
Direct costs: \$24,660
Effort: 20% effort, August 2011- May 2012; 8% effort, June 2012- May 2013
Begin/end date: August 2011-May 2013

Description: Gene-by-sex interaction was analyzed for genetic variants identified by GWAS for lipid traits (LDL, HDL, and triglycerides) and the corresponding manuscript was written and published (*BMC Genetics* 2013, 14:33 (DOI: 10.1186/1471-2156-14-33)).

C. Intramural grants/contracts

1) Title: The impact of preconception maternal stress on fecundability and pregnancy outcomes.

Type of grant: University of Louisville Research Initiation Grant Program (IRIG)
Title: The impact of preconception maternal stress on fecundability and pregnancy outcomes.
Amount: \$4,952
Funding period: June 2014-May 2015
PI: Kira Taylor
Co-investigator: Rachel Neal

Description: Urine samples from a prospective pregnancy study were frozen and shipped to the University of Louisville. Cortisol, a biomarker of stress, was assayed on samples to determine if there was an association with perceived stress or with fertility.

D. Recent Grant Submissions

1. Title: Personal-level measurement of environmental carcinogens and risk of estrogen-receptor negative breast cancer in a population-based epidemiologic study
Funding organization: National Institutes of Health (NIEHS)
Type of grant: RO1
PI: Natalie duPre
Role: Co-investigator
Effort: 5% over 5 years
2. Environmental carcinogens and risk of estrogen-receptor negative breast cancer in Louisville, Kentucky
Funding organization: American Cancer Society
Type of grant: Research Scholar Grant (RSG)
PI: Natalie DuPre
Role: Co-investigator
Effort: 3% over 4 years
3. Title: The Role of Biological Sex in Toxicant-associated Liver and Metabolic Diseases
Type of grant: NIH/NIEHS R01 ES035905-01 (PI: Wahlang)

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Role: Co-investigator
Effort: 0.6 calendar months in Year 4 and 5

4. Title: “Pregnancy and Sleep Health” (Supplement)
PI: Steven Jones is the PI on the Supplement for the P30 Parent Award “Center for Excellence in Diabetes and Obesity Research”. Helen Collins and Clara Sears are the early career investigator co-Project Leads.
Type of grant: P30 supplement
Role: Co-investigator
Effort: 10%

E. Planned submissions

Title: The associations between vaping, volatile organic compound exposure and menstrual function
Funding organization: National Institutes of Health (NIEHS or NICHD)
Type of grant: RO1
Role: PI
Co-investigator: Justin Jatzak, Ob/Gyn, University of Louisville
Effort: 25% over 5 years

VIII. SERVICE ACTIVITIES

A. Intramural Service

1. University-wide

- Ideas-to-Action (i2a) Division Representative, 2011-2014
- Judge for Grawemeyer Award for Music Composition, 2011-present
- Judge for Research! Louisville, September, 2012, 2014, 2019
- University of Louisville Graduate Council, 2015-2018
- Mentor for the Cancer Health and Disparity Summer Bridge Program, summer 2022
- Judge for the Undergraduate Summer Research Program poster session, August 2022
- Faculty Senate (2022-2025)

2. School of Public Health and Information Sciences

- SPHIS Undergraduate Program Director, 2011-2012
- SPHIS Undergraduate Program Development Team, 2011-2013
- Curriculum Committee Member, SPHIS, 2011-2013
- Academic Affairs Committee Member, 2011-2013
- Transition Team Committee, 2012-2013.

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- Rules, Policies, and Credentials Member and Temporary Chair, 2012-2013
 - Chair of Undergraduate Program Review Committee, 2017
 - Decanel Review Committee, 2018
 - Faculty Learning Community (Pedagogy Series)– Co-Organizer, 2019-present
 - Student Grievance Committee, 2019- present; served as Committee Chair for one grievance
 - Curriculum Review Committee, 2022-present
2. Department of Epidemiology and Population Health
- Curriculum and Handbook Revision Committee, 2013-2014
 - “EpiHour” Seminar Series Creator and Coordinator, 2013-2014
 - Faculty Search Committee, 2015
 - Faculty Search Committee Chair, 2018
 - Proficiency Exam Developer: 2015, 2016, 2018, 2019, 2020, 2021, 2022, 2023

B. Extramural Service

- Session Chair, Cardiovascular Genetics, The Obesity Society annual meeting, 2011
- American College of Epidemiology (ACE) Annual Meeting Workshop Creator, Coordinator and Instructor: “Introduction to Genetic Association Analysis: Theory and Practice”, October 2013
- Invited speaker, “Stretching the Mind” seminar series, Treyton Oak Towers, Louisville, KY. Talk title: “Epidemiology in the Media.” May 10, 2013.
- Peer Reviewer for the following journals:
 1. Human Reproduction (2009, 2011, 2015)
 2. PLoS One (2012-2017)
 3. Annals of Epidemiology (2014, 2015, 2020)
 4. Human Molecular Genetics (2014, 2016)
 5. Pharmacogenetics and Genomics (2015)
 6. Pediatric Research (2015)
 7. Journal of Lipid Research (2016)
 8. The International Journal of Environmental Research and Public Health (2016)
 9. Journal of Women’s Health (2018)
 10. BMJ – Open (2018)

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11. *Frontiers in Genetics* (2018, 2019)
12. *Psychoneuroendocrinology* (2019)
13. *Genes* (2020, 2021)
14. *BJOG: An International Journal of Obstetrics and Gynaecology* (2021)
15. *Pediatric and Perinatal Epidemiology* (2022)
16. *Ecotoxicology and Environmental Safety* (2023)

- Abstract reviewer for Society of Pediatric and Perinatal Epidemiologic Research Annual Meeting: 2018, 2019

IX. PUBLICATIONS

A. Peer-Reviewed Book Chapters and Reports

1. Sherman SL, **Taylor KC**, Allen EG. FMR1 Premutation: a leading cause of inherited ovarian dysfunction. In: Fragile Sites: New discoveries and changing perspectives. (2006). Eds: Arrieta, I, Penagarikano, O, Telez, M. Nova Science Publishers, Inc, Hauppauge, NY, pp. 299-320.
2. **Taylor KC**, Small CM, Epstein MP, Terrell ML, Marcus M. “Brominated flame retardant exposure: Heritability of age at menarche and menstrual cycle length.” (2013). In: Break the Cycle of Environmental Health Disparities: Maternal and Child Health Aspects, Leslie Rubin and Joav Merrick, eds. Nova Science Publishers, Inc., NY, pp. 37-50.

B. Peer-Reviewed Journal Articles

In cases where I served as a research mentor to a student, the student’s name is underlined.

In cases where I am one of many remaining authors, “et al.” is shown in bold.

1. **Taylor KC**, Jackson LW, Lynch CD, Kostyniak PJ, Buck Louis GM. Preconception maternal polychlorinated biphenyl concentrations and the secondary sex ratio. *Environ Res.* 2007;103(1):99-105. PMID: 16780830
2. Allen EG, Sullivan AK, Marcus M, Small C, Dominguez C, Epstein MP, Charen K, He W, **Taylor KC**, Sherman SL. Examination of reproductive aging milestones among women who carry the FMR1 premutation. *Hum Reprod.* 2007;22(8):2142-52. PMID: 17588953
3. **Taylor KC**, Small C, Epstein MP, Terrell ML, Marcus M. Heritability of age at menarche and menstrual cycle length in a population exposed to a brominated flame retardant. *International Journal of Child and Adolescent Health.* 2009;2(3):383-94.
4. **Taylor KC**, Small CM, Epstein MP, Sherman SL, Tang W, Wilson MM, et al. Associations of progesterone receptor polymorphisms with age at menarche and menstrual cycle length. *Horm Res Paediatr.* 2010;74(6):421-7. PMID: 20814185

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5. Wassel CL, Lange LA, Keating BJ, **Taylor KC**, Johnson AD, Palmer C, et al. Association of genomic loci from a cardiovascular gene SNP array with fibrinogen levels in European Americans and African-Americans from six cohort studies: the Candidate Gene Association Resource (CARE). *Blood*. 2011;117(1):268-75. PMID: 20978265
6. Lanktree MB*, Guo Y*, Murtaza M, Glessner JT, Bailey SD, Onland-Moret NC, et al. Meta-analysis of dense genecentric association studies reveals common and uncommon variants associated with height. *Am J Hum Genet*. 2011;88(1):6-18. PMID: 21194676
**Co-first authors.*
7. **Taylor KC**, Lange LA, Zabaneh D, Lange E, Keating BJ, Tang W, et al. A gene-centric association scan for Coagulation Factor VII levels in European and African Americans: the Candidate Gene Association Resource (CARE) Consortium. *Hum Mol Genet*. 2011;20(17):3525-34. PMID: 21676895
8. Dumitrescu L, Carty CL, **Taylor KC**, Schumacher FR, Hindorff LA, Ambite JL, et al. Genetic determinants of lipid traits in diverse populations from the population architecture using genomics and epidemiology (PAGE) study. *PLoS Genet*. 2011;7(6):e1002138. PMID: 21738485
9. **Taylor KC**, Small CM, Dominguez CE, Murray LE, Tang W, Wilson MM, et al. Alcohol, smoking, and caffeine in relation to fecundability, with effect modification by NAT2. *Ann Epidemiol*. 2011;21(11):864-72. PMID: 21684175
10. Agrawal A, Freedman ND, Cheng YC*, Lin P*, Shaffer JR*, Sun Q*, **Taylor KC***, Yasban B*, et al. Measuring alcohol consumption for genomic meta-analyses of alcohol intake: opportunities and challenges. *Am J Clin Nutr*. 2012;95(3):539-47. PMID: 22301922
**These authors, listed alphabetically, contributed equally to this work.*
11. Guo Y*, Lanktree MB*, **Taylor KC***, Hakonarson H, Lange LA, Keating BJ, et al. Gene-centric meta-analyses of 108 912 individuals confirm known body mass index loci and reveal three novel signals. *Hum Mol Genet*. 2013;22(1):184-201. PMID: 23001569
**Co-first authors.*
12. Monda KL*, Chen GK*, **Taylor KC***, Palmer C*, Edwards TL*, Lange LA, et al. A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. *Nat Genet*. 2013;45(6):690-6. PMID: 23583978 **Co-first authors.*
13. Liu CT*, Monda KL*, **Taylor KC***, Lange L, Demerath EW, Palmas W, et al. Genome-wide association of body fat distribution in African ancestry populations suggests new loci. *PLoS Genet*. 2013;9(8):e1003681. PMID: 23966867 **Co-first authors.*
14. **Taylor KC**, Carty CL, Dumitrescu L, Buzkova P, Cole SA, Hindorff L, et al. Investigation of gene-by-sex interactions for lipid traits in diverse populations from the population architecture using genomics and epidemiology study. *BMC Genet*. 2013;14:33. PMID: 23634756
15. Azadi A, Francis SL, **Taylor KC**, Diaz SI, Pasic R, Yeganeh T, et al. The anatomical outcome of robotic sacrocolpopexy for treatment of pelvic organ prolapse: a comparison of obese and non-obese patients. *Surg Technol Int*. 2014;24:249-52. PMID: 24700227

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16. Yoneyama S, Guo Y, Lanktree MB, Barnes MR, Elbers CC, Karczewski KJ, et al, Keating BJ*, **Taylor KC***. Gene-centric meta-analyses for central adiposity traits in up to 57 412 individuals of European descent confirm known loci and reveal several novel associations. *Hum Mol Genet.* 2014;23(9):2498-510. PMID: 24345515 **Joint corresponding authors.*
17. Donneyong MM, Hornung CA, **Taylor KC**, Baumgartner RN, Myers JA, Eaton CB, et al. Risk of heart failure among postmenopausal women: a secondary analysis of the randomized trial of vitamin D plus calcium of the women's health initiative. *Circ Heart Fail.* 2015;8(1):49-56. PMID: 25398967
18. Oyarzun-Gonzalez XA, **Taylor KC***, Myers SR, Muldoon SB, Baumgartner RN. Cognitive decline and polypharmacy in an elderly population. Letter to the Editor. *J Am Geriatr Soc.* 2015;63(2):397-9. PMID: 25688619 **Corresponding author.*
19. Donneyong MM, **Taylor KC**, Kerber RA, Hornung CA, Scragg R. Is outdoor recreational activity an independent predictor of cardiovascular disease mortality - NHANES III? *Nutr Metab Cardiovasc Dis.* 2016, Mar 3. doi: 10.1016/j.numecd.2016.02.008. [Epub ahead of print]. PMID: 27089974
20. Sajuthi SP, Sharma NK, Chou JW, Palmer ND, McWilliams DR, Beal J, **et al.** Mapping adipose and muscle tissue expression quantitative trait loci in African Americans to identify genes for type 2 diabetes and obesity. *Human Genetics* 2016, 19 May. doi:10.1007/s00439-016-1680-8. [Epub ahead of print]. PMID: 27193597
21. Akhter S, Marcus M, Kerber RA, Kong M, **Taylor KC***. The impact of periconceptional maternal stress on fecundability. *Annals of Epidemiology* 2016, 26(10): 710-716. PMID: 27623482.
**Corresponding author.*
22. **Taylor KC***, Evans DS, Velez Edwards DR, Edwards TL, Li G, Liu Y, et al. A genome-wide association study meta-analysis of clinical fracture in 10,012 African American women. *Bone Reports*, 2016, 5: 233-242. PMID: 28580392.
**Corresponding author.*
23. Ahiawodzi PD, Kerber RA, **Taylor KC**, Groves FD, O'Brien E, Ix JH, Kizer JR, Djousse L, Tracy RP, Newman AB, Siscovick DS, Robbins J, Mukamal KJ. Sleep-disordered breathing is associated with higher carboxymethyllysine level among older women but not older men in the Cardiovascular Health Study. *Biomarkers* 2017, 22(3-4):361-366. PMID: 28055285
24. Howards PP, Terrell ML, Jacobson MH, **Taylor KC**, Kesner JS, Meadows JW, Spencer JB, Manatunga AK, Cameron LL, and Marcus M. Polybrominated Biphenyl Exposure and Menstrual Cycle Function. *Epidemiology.* 2019 Sep;30(5):687-694. PMID: 31180930
25. Konkle SL, Zierold KM, **Taylor KC**, Riggs DW, Bhatnagar A. National secular trends in ambient air volatile organic compound levels and biomarkers of exposure in the United States. *Environmental Research.* 2020 Mar; 182:108991. PMID: 31835113
26. McGraw KE, Riggs DW, Rai S, Navas-Acien A, Zhengzhi X, Lorkiewicz P, Lynch J, Zafar N, Krishnasamy S, **Taylor KC**, Conklin DJ, DeFilippis AP, Srivastava S, Bhatnagar A. Exposure to Volatile Organic Compounds – Acrolein, 1,3-Butadiene, and Crotonaldehyde –

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- is Associated with Vascular Dysfunction. *Environmental Research*. Available online 24 February 2021, 110903.
27. Yaser M, Marcus M, and **Taylor KC**. Alcohol intake in the luteal window is associated with reduced fecundability. *Human Reproduction*. 2021. Aug 18;36(9):2538-2548.
 28. Yaser M, Raffield L, Lange L, Correa A, and **Taylor KC**. Genetic Underpinnings of Local Adiposity Distribution in African Descent Individuals: Polygenic Risk Score Assessments from the Jackson Heart Study. *PLoS One*. 2021 Aug 4;16(8):e0255609.
 29. Graff M, Justice A, Young K, Marouli E, Zhang X, Fine R, ... Taylor K... et al. Discovery and fine-mapping of height loci via high-density imputation of GWASs in individuals of African ancestry. *The American Journal of Human Genetics* 2021 v108, 564–582.
 30. Anwar MY, Baldassari AR, Polikowsky HG, Sitlani CM, Highland HM, Chami N, Chen HH, Graff M, Howard AG, Jung SY, Petty LE, Wang Z, Zhu W, Buyske S, Cheng I, Kaplan R, Kooperberg C, Loos R, Peters U, McCormick JB, Fisher-Hoch SP, Avery CL, **Taylor KC**, Below JE, North KE. Genetic pleiotropy underpinning adiposity and inflammation in self-identified Hispanic/Latino populations. *BMC Med Genomics*. 2022 v10;15(1):192. PMID: 36088317
 31. Oladipupo I, Ali T, Hein DW, Pagidas K, Bohler H, Doll MA, Mann ML, Gentry A, Chiang JL, Pierson RC, Torres S, Reece E, **Taylor KC**. Association between cigarette smoking and ovarian reserve among women seeking fertility care. *PLoS One* 2022 17(12): e0278998.

Underlined authors indicate that I was their master's or doctoral Thesis or Dissertation chair.

Submissions Under Review

1. Ali T, Oladipupo I, Torres S, Pagidas K, Bohler H, Reece ES, Mann ML, Gentry A, Chiang J, Pierson R, Wood LA, **Taylor KC**. Preconception tobacco smoke exposures and spontaneous abortion among females seeking fertility care.
2. Blair LK, Howard J, Peiper NC, Little BB, **Taylor KC**, Baumgartner R, Creel L, DuPre NC. Residence in Urban or Rural Counties in relation to Opioid Overdose Mortality in Kentucky before and during the COVID-19 Pandemic. In Submission with International Journal of Drug Policy (IJDP). (*Revise and Resubmit requested.*)

Manuscripts in Preparation

1. Blair LK, Karimi S, Peiper NC, Little BB, **Taylor KC**, Baumgartner R, DuPre NC. Evaluating State-Level Kratom Legislation and Opioid Overdose Mortality in the United States: an interrupted time series analysis.
2. Blair LK, Howard J, Peiper NC, Little BB, **Taylor KC**, Baumgartner R, DuPre NC. Socioeconomic Status Patterns in Relation to Opioid Overdose Mortality Rates in United States Counties, 2010-2019.

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3. Reece EK, Wallis A, Kong M, Marcus M, **Taylor KC**. The Association between Caffeinated Beverages and Fecundability in a Prospective Cohort Study.
4. Reece EK, Unsel M, Gaskins J, Peiper N, Ali T, Baumgartner R, Corbitt C, Smith T, Tomlinson M, Bhatnagar A, **Taylor KC**. Protest-related tear gas exposure and menstrual function.
5. Wood L, **K Taylor**, B Guinn, R Yeager, J Gaskins, N DuPre. Environmental Noise Exposure and its Association with Elementary Standardized Testing Scores and Adult Mental Ill-Health in Jefferson County, Kentucky.

X. PRESENTATIONS (Posters and Oral Presentations)

A. Peer-Reviewed Presentations

1. **Taylor KC**, Small CM, Epstein MP, Terrell ML, Marcus M. Heritability of female reproductive characteristics in a population exposed to polybrominated biphenyls. Poster presentation. American Society of Human Genetics annual conference, San Diego, October 2007.
2. **Taylor KC**, Small CM, Dominguez C, Sherman SL, Epstein MP, Tang W, Wilson MM, Bouzyk M, Marcus, M. Genetic variability in inhibins and menstrual cycle characteristics. Poster presentation. Society for Epidemiologic Research annual conference, Chicago, June 2008. [*American Journal of Epidemiology*, 167(11): p. S23]
3. **Taylor KC**, Small CM, Epstein MP, Sherman SL, Tang W, Wilson MM, Bouzyk M, Marcus M. Genetic variability in the progesterone receptor and age at menarche. Poster presentation. Society for Epidemiologic Research annual conference, Anaheim, CA, June 2009. [*American Journal of Epidemiology*, 169(11): p. S6]
4. **Taylor KC**, Small CM, Dominguez C, Murray L, Tang W, Wilson MM, Bouzyk M, Marcus M. *NAT2* haplotypes modify the effects of smoking, alcohol, and caffeine on fertility. Poster presentation. American Society of Human Genetics annual conference, Honolulu, HI, October 2009.
5. **Taylor KC**, Lange LA, Reiner A, North K, Smith NL, Green D, Tang W, Delaney J, Folsom AR. Multiple loci associated with Factor VII levels in European and African Americans from the Candidate Gene Association Resource (CARE) consortium. Poster presentation. Society for Epidemiologic Research annual conference, Seattle, WA, June 2010. [*American Journal of Epidemiology*, 171(Supp): p. S125.]
6. **Taylor KC**, North KE, Franceschini N, Jackson R, LaCroix AZ, Robbins JA, Lewis B, Stefanick ML, Cauley JA. Genome-Wide Association Scan of Osteoporotic Fracture Rate among African American Women in the Women's Health Initiative. Poster presentation. American Society of Human Genetics annual conference, Washington, D.C., October 2010.
7. Demerath E, **Taylor KC**, Lange L, Cupples A, Monda K, Redline S, Grant S, Burke G, Schreiner P, Liu J, Hirschorn J, Papanicolaou G, North K, and Fox C. Novel loci for central adiposity: Findings from the CARE consortium. Poster presentation. The Obesity Society annual conference, San Diego, CA, November 2010.

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8. **Taylor KC**, Liu KY, Zhang S, Manson J, Jackson R, Liu S, Curb JD, Roussouw J, Limacher M, Robinson J, et al. Variation in Vitamin D-Related Genes and Risk of Cardiovascular Disease in African Americans in the Women's Health Initiative SHARe Cohort. Poster presentation. American Heart Association Epidemiology, Nutrition and Metabolism Conference, Atlanta, GA, March 2011.
9. Monda KL, **Taylor KC**, Lange LA, Chen GK, Papnicolaou GJ, Hirschhorn JN, North KE, Haiman CA. Genome-wide association study of body mass index in 33,525 African Americans validates four loci previously-identified in Europeans and reveals two novel loci. Oral platform presentation. American Heart Association Epidemiology, Nutrition and Metabolism Conference, Atlanta, GA., March 2011.
10. Lin J, **Taylor KC**, Liu K-Y, Zhang S, Jackson R, Papanicolaou G, Liu S, Millen A, Ockene J, Vitolins M, Wallace R, Manson J. Variation in vitamin D-associated genes and cancer risk in African American women. Poster presentation. American Association for Cancer Research Annual Meeting, Orlando, FL, April 2011.
11. **Taylor KC***, Yoneyama S*, Fox CS, North KE, Monda KL, Lange L, Keating B, Guo Y, Reiner AP, Grant S, et al. A Meta-Analysis of 51992 Individuals of European Descent Identifies Novel Genetic Associations with Central Adiposity. Platform presentation (oral). The Obesity Society annual meeting, Orlando, Florida, October 4, 2011. **Co-first authors*.
12. **Taylor KC**, North KE, Carty C, Dumitrescu L, Hindorff L, Schumacher F, Quibrera M, Cole S, Buyske S, Buzkova P, et al. Replication and Discovery of Lipid-Related Loci Exhibiting Heterogeneity by Sex in the Population Architecture Using Genomics and Epidemiology (PAGE) Study. Poster presentation. International Congress of Human Genetics annual meeting, Montreal, Quebec, Canada, October 2011.
13. Liu C-T, Monda KL, **Taylor KC**, Lange L, Adeyemo A, Allison M, Becker DM, Bielak LF, Borecki I, Burke G, et al. Genome-wide Association for Central Adiposity in African Americans. Poster presentation. International Congress of Human Genetics, Montreal, October, 2011.
14. Yoneyama S, **Taylor KC**, Fox CS, Keating BJ, Lange LA, Monda KL, Gong Y, Reiner AP, Shen H, Smith E, et al. Investigation of Heterogeneity by Sex of Adiposity Measurements in a Meta-Analysis of 52992 of European Descent Individuals. Poster presentation. International Congress of Human Genetics, Montreal, October, 2011.
15. Azadi A, Muldoon S, Ostergard D, Cornwell L, **Taylor KC**. The Effect of Body Mass Index (BMI) in Perioperative Outcomes in Patients Undergoing Robotic Assisted Sacrocolpopexy for Pelvic Organ Prolapse. Poster presentation. International Urogynecological Association Annual Meeting, Brisbane, Australia, September 2012.
16. Donneyong MM, Kerber R, Hornung CA, **Taylor KC**. Leisure-time outdoor physical activity, 25-hydroxyvitamin D and their effects on cardiovascular mortality. Poster presentation. American College of Epidemiology annual conference, Chicago, IL, September 2012.
17. **Taylor KC**, Edwards DV, Edwards T, Evans DS, Li G, North KE, Franceschini N, Jackson R, Donneyong M, LaCroix AZ, et al. Genome-Wide Association Scan of Osteoporotic Fracture: A Meta-Analysis of 10,014 African-American Women. Poster presentation. American Society of Human Genetics Annual Conference, San Francisco, CA, Nov 2012.

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18. Donneyong MM, Hornung CA, **Taylor KC**, Baumgartner RN, Myers JA, Li W, Song Y, Martin LW, Gorodeski EZ, Shikany JM, Klein L, Eaton C, Manson JE. Vitamin D plus calcium supplementation and risk of heart failure: the Women's Health Initiative study randomized trial of calcium and Vitamin D. Poster presentation. Society for Epidemiologic Research annual meeting, Boston, MA, June 2013.
19. Akhter S, Kerber R, Kong M, **Taylor KC**. The impact of preconception maternal self-reported stress on fecundability. Plenary presentation (oral). Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Denver, CO, June 2015.
20. Oladipupo I, Ali T, Bohler H, Pagidas K, Hein DW, Neal R, Mann ML, Gentry A, Dondik Y, Chiang J, Torres S, **Taylor KC**. "Association between Active Smoking and Ovarian Reserve Among Females Seeking Fertility Treatment, and Interaction with N-Acetyltransferase 2(*NAT2*) Genotype." Plenary Presentation (oral). Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Baltimore, MD, June 2018.
21. Konkle SL, **Taylor KC**, Groenwold M, Zierold K, Bhatnagar A. "Secular Trend in Ambient Volatile Organic Compound Levels, Biomarkers of Exposure and Associations with Cardiometabolic Syndrome: An Analysis of Data from the National Health and Nutrition Examination Survey (NHANES) and the National Monitoring Program (NMP)." Published in *Annals of Epidemiology*, Vol. 28, No. 9, p. 660. American College of Epidemiology annual meeting, Cincinnati, OH, September 2018.
22. Ali T, Oladipupo I, Bohler H, Pagidas K, Hein DW, Mann ML, Gentry A, Dondik Y, Chiang J, Torres S, **Taylor KC**. "Childhood Secondhand Tobacco Smoke Exposure and Ovarian Reserve Among Non-smoking Females Seeking Fertility Care, and Interaction with N-Acetyltransferase 2 (*NAT2*) Genotype." Published in *Annals of Epidemiology*, Vol. 28, No. 9, p. 670. American College of Epidemiology annual meeting, Cincinnati, OH, September 2018.
23. Oladipupo I, Ali T, Bohler H, Pagidas K, Mann ML, Gentry A, Dondik Y, Chiang J, Torres S, **Taylor KC**. "Prevalence and Validity of Self-reported Smoking among Females Seeking Fertility Care." Published in *Annals of Epidemiology*, Vol. 28, No. 9, p. 671. American College of Epidemiology annual meeting, Cincinnati, OH, September 2018.
24. Konkle S., Zierold K, **Taylor KC**, Riggs D, Bhatnagar A. "National Secular Trends in Ambient Air Volatile Organic Compound Levels and Biomarkers of Exposure in the United States." Accepted to the International Society of Environmental Epidemiology annual conference, 2019.
25. Cahill, M., Farley G, Ali T, Bohler H, Oladipupo I, Wood L, **Taylor KC**. The Association between Polycystic Ovarian Syndrome and Probability of Conception in Women Undergoing Fertility Counseling. Research! Louisville annual conference, September, 2019.
26. Yaser M., Raffield L., Lange L., Correa A., **Taylor KC**. Association of genetic risk scores for adiposity-related traits with body fat percentage and related phenotypes in the Jackson Heart Study. Annual Meeting for the American Society of Human Genetics; Houston, TX, October 2019.
27. Ali T, Oladipupo I, Torres S, Pagidas K, Bohler H, Reece ES, Mann ML, Gentry A, Chiang J, Pierson R, Wood LA, **Taylor KC**. Preconception tobacco smoke exposures and

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- spontaneous abortion among females seeking fertility care. Annual Meeting for the Society for Pediatric and Perinatal Epidemiologic Research: December 2020.
28. Lindsey A. Wood, M.S., Ray Yeager, MPH, Ph.D., Brian Guinn, MPH, Ph.D, Kira C. Taylor, Ph.D., Jeremy Gaskins, Ph.D., Maryssa Loehr, Jay Turner, Sc.D., Natalie C. DuPré, Sc.D. Use Regression Estimation of Cumulative Environmental Noise Exposure in Jefferson County, Kentucky. International Society for Environmental Epidemiology annual conference, 2021.
 29. Emily K. Reece, Monica Unseld, Madeline M. Tomlinson, Aastha Kakar, Anne B. Wallis, Cynthia Corbitt, Ted Smith, Aruni Bhatnagar, Kira C. Taylor. Tear Gas Exposure During the 2020 and 2021 Protests and Female Reproductive Health. Won 2nd place in PhD division. *Research! Louisville* 2021.
 30. Wood, L.A., Gaskins, J., **Taylor, K.C.**, Guinn, B., Yeager, R., DuPre, N.C. (2022, January). Modification of the Relationship between Environmental Noise and Prevalence of Mental Ill-Health by Neighborhood Income and Race in Louisville, Kentucky. Kentucky Public Health Association. 2022 April 22. Bowling Green, Kentucky. **2nd place winner for Outstanding Student Epidemiology Poster.
 31. LK Blair, J Howard, NC Peiper, BB Little, **KC Taylor**, R Baumgartner, L Creel, NC DuPre. Residence in Urban or Rural Counties in relation to Opioid Overdose Mortality in Kentucky before and during the COVID-19 Pandemic. Kentucky Public Health Association. 2022 April 22. Bowling Green, Kentucky. **1st place winner for Outstanding Student Epidemiology Poster.
 31. Emily Reece, Monica Unseld, Madeline Tomlinson, Aastha Kakar, Anne Wallis, Cynthia Corbitt, Ted Smith, Aruni Bhatnagar, and **Kira C. Taylor**. Tear Gas Exposure During the 2020 and 2021 Protests and Female Reproductive Health. Annual Meeting for the Society for Pediatric and Perinatal Epidemiologic Research: June 2022; Chicago, IL. Poster.
 32. Damilola Owoade, Emily K. Reece, Monica Unseld, Madeline Tomlinson, Anne Wallis, Cynthia Corbitt, Ted Smith, Aruni Bhatnagar, and **Kira C. Taylor**. Acute tear gas exposure symptoms and adverse male reproductive outcomes. Annual Meeting for the Society for Pediatric and Perinatal Epidemiologic Research: June 2022; Chicago, IL. Oral presentation.
 33. Wood LA, Guinn B, Yeager R, Gaskins J, **Taylor KC**, DuPre NC. The Association between Environmental Noise and Prevalence of Mental Ill-Health was Modified by Neighborhood Income and Race in Louisville, Kentucky SER 2022. 2022 June 16; Chicago, IL. Poster.
 34. Blair LK, Creel L, Peiper N, Little B, **Taylor K**, Baumgartner R, Howard J, DuPre N. Residence in Urban or Rural Counties in relation to Opioid Overdose Mortality in Kentucky before and during the COVID-19 Pandemic. SER 2022. 2022 June 16; Chicago, IL. Poster.

B. Non-Peer Reviewed Presentations

- Grow P, **Taylor KC**, Wang Q. The potential role of lysyl oxidase polymorphisms in the pathogenesis of abdominal aortic aneurysm formation. Poster presentation. 13th Annual Emory Cardiology Research Symposium, The Emory Conference Center, Atlanta, GA, June 2007.

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Taylor KC, Graff M, North KE, Gordon-Larsen P, Cupples A, Fox, C. Genetic Epidemiology of BMI and BMI Change in the Transition from Adolescence to Young Adulthood. Oral presentation. GENEVA quarterly steering committee meeting, Washington D.C., May 2010.

Taylor KC, North KE, Franceschini N, Jackson R, Stefanick ML, Cauley JA. “Genome-Wide Association Scan of Osteoporotic Fracture Rate among African American Women in the Women’s Health Initiative.” Oral presentation. WHI-SHARe analytic meeting, Seattle, WA, October 2010.

Taylor KC, North KE, Carty C, Dumitrescu L, Hindorff L, Schumacher F, Quibrera M, Cole S, Buyske S, Buzkova P, et al. “Heterogeneity by sex in genetic associations with lipid traits in the Population Architecture using Genomics and Epidemiology (PAGE) Study.” Oral presentation, PAGE steering committee meeting, Washington, D.C. June 2011.

Taylor KC. “Genetic Influences on Obesity.” Oral presentation. Kentucky Public Health Association Annual Meeting, Louisville, KY, March 2012.