

## FACULTY CURRICULUM VITAE

Michelle Lynn Wright  
Assistant Professor

The University of Texas at Austin  
School of Nursing

### EDUCATION

PhD	University of North Dakota, Grand Fords, ND (Nursing)	2014
MS	DePaul University, Chicago, IL (Nursing)	2004
BS	Western Michigan University, Kalamazoo, MI (Biomedical Sciences)	2001
Post-doc	Virginia Commonwealth University, Richmond, VA (Biobehavioral genomics)	2015
Post-doc	Yale University, New Haven, CT (Intergenerational genomics)	2016

### CERTIFICATES AND LICENSURE

Registered Nurse (Texas, expires 2021)  
Board Certified Emergency Nurse, Emergency Nurse Association (12/30/11)

### PROFESSIONAL EXPERIENCE

#### **The University of Texas at Austin, School of Nursing**

Assistant Professor, Family, Public Health & Nursing Administration Division 2018 - Present

#### **The University of Texas at Austin, Dell Medical School**

Assistant Professor, Department of Women's Health 2018 - Present

#### **Emory University, Nell Hodgson Woodruff School of Nursing**

Assistant Research Professor 2016-2018

#### **Yale University, School of Nursing**

Postdoctoral Associate 2015-2016

#### **Virginia Commonwealth University, School of Nursing**

Postdoctoral Fellow 2014-2015

#### **University of North Dakota, College of Nursing**

Research Assistant 2011-2013

#### **University of Miami, School of Nursing and Health Studies**

Teaching Assistant 2010-2011

#### **Keiser University**

Lead Instructor of Nursing 2009-2010

#### **Emergency Department**

Travel Nurse; Staff Nurse 2008-2009

#### **Oakland Community College**

Clinical Nursing Instructor 2007-2008

#### **Huron Valley-Sinai Hospital, Emergency Department**

Staff Nurse and Preceptor 2006-2008

**Beaumont Hospital, Emergency Department**

Staff Nurse 2006-2007

**Henry Ford Hospital, Neonatal Intensive Care Unit**

Staff Nurse 2004-2006

**URS Corporation**

Scientist; Groundwater Remediation 2001-2002

**HONORS AND SPECIAL AWARDS**

Fellow, American Academy of Nursing	2020
<i>Biological Research for Nursing</i> , Invited Microbiome and Metabolomics special issue Guest Editor	2020
Dean's Excellence Award for Writing/Publications	2020
Innovations in Teaching Award Nominee	2020
5-year Developmental ELN Grant, LabArchives	2020
Health Scholar, Aspen Ideas Festival – Health	2019
Finalist, Best Lab, Austin-American Statesman Recognizing Nurses Celebration	2019
Nominated Member, The University of Texas at Austin Society for Teaching Excellence	2018
Rising STARS Award, The University of Texas System	2018-2021
Invited Speaker, International Society of Nurses in Genetics World Congress	2015
Journal of Nursing Scholarship Emerging ISONG Scholar Finalist	2014
Fellow, Big Data Boot Camp, National Institute of Nursing Research	2014
University of North Dakota Graduate Student Travel Award	2013
NIH Sponsored Travel Award	2013
Tuition Scholarship to attend the 18 <sup>th</sup> Summer Institute in Statistical Genetics	2013
Travel Award to attend the 18 <sup>th</sup> Summer Institute in Statistic Genetics	2013
Travel Award, University of North Dakota College of Nursing & Professional Disciplines	2013
Travel Award, University of North Dakota, Research Development & Compliance	2013
Selected as a University of North Dakota representative to compete in the 2013 Midwest Nursing Research Society Conference	2013
Fellow, Summer Genetics Institute, National Institute of Nursing Research	2012
University of North Dakota Graduate Student Travel Award to present at the International Society of Nurses in Genetics Conference	2012
University of North Dakota Graduate Student Travel Award to present at the Experimental Biology Conference	2012
Selected to participate in the Nutrient Gene Interaction Research Interest Group Poster Competition at the Experimental Biology Conference	2012
Honorable Mention PhD Student Poster Award: MNRS Conference	2012
Selected as a University of North Dakota representative to compete in the Midwest Nursing Research Society Conference in the PhD Student poster competition in the Research category	2012
Valedictorian, Summa cum laude: DePaul University	2004
Inductee, International Nursing Honor Society, Sigma Theta Tau International	2004
Medallion Academic Scholarship: Western Michigan University	1997-2001
Ford Academic Scholarship: Western Michigan University	1997-2001

**RESEARCH GRANTS – FUNDED & ACTIVE**

**Principal Investigator:**

- 09/26/2018-08/31/2021 The Microbiome of Pregnant African American Women with Group B Streptococcus Colonization and the Influence of Prenatal Antibiotics (K01NR017903), National Institutes of Health, National Institute of Nursing Research K01. \$271,026 total costs.
- 12/2019 – 12/2020 Integrating microbial composition and maternal genetic characteristics to develop a new approach for prediction and prevention of preterm birth using machine learning. St. David's CHPR Pilot Grant Award, \$30,000 total costs.

**RESEARCH GRANTS – PENDING (In Review)**

- 2021-2026 Wright, M.L. (MPI, Taylor contact-PI) Intergenerational Epigenetic Age Acceleration and Predictive Model Development for Hypertension among African Americans. (R01) National Institutes of Health, National Heart Lung and Blood Institute. Submitted 06/2020
- 2021-2026 Wright, M.L. (contact-PI, Taylor MPI) Intergenerational epigenetics, social factors, and cardiometabolic health among Hispanic mothers and children (La Vida). (R01), National Institutes of Health, National Institute of Minority Health and Health Disparities. Submitted 11/02/20.

**RESEARCH GRANTS – COMPLETED**

- 11/2017 – 06/2020 Characterization of Allele Specific DNA Methylation of PABPN1. International Society of Nurses in Genetics, Research Grant. \$2,000 total costs.
- 09/2014 - 06/2020 Taylor, J.Y. (PI). Intergenerational Impact of Genetic and Psychological Factors on Blood Pressure (R01NR013520). National Institutes of Health, National Institute of Nursing Research, R01. \$3.3 million in total costs. Role: Postdoctoral associate 08/2015-08/2016
- 08/2009-05/2014 Grap, M. J. (PI). Center of Excellence in Biobehavioral Approaches to Symptom Management (P30NR011403). National Institutes of Health, National Institute of Nursing Research, P30. \$1.9 million in total costs. Role: Postdoctoral scholar 01/2014-07/2015.
- 03/2013 - 03/2014 Wright, M. L. (PI). Maternal Group B Streptococcus Serum Markers. Midwest Nursing Research Society, Research Grant. \$2,500 total costs.

10/2012 - 10/2013 Wright, M. L., (PI). DNA Methylation Patterns in Pregnant Women with Group B Streptococcus, International Society of Nurses in Genetics, Research Grant. \$2,000 total costs.

**PUBLICATIONS – Refereed Articles (published or “in press”)** \*databased; ‡corresponding  
Mentoring key: §PhD student; ¢research assistant; £graduate student; ¥undergraduate student

\*‡**Wright, M.L.**, §Lim, S., Sales, A., ¥Rajagopal, S., ¥Nzegwu, D., Crusto, C., Taylor, J.Y. (2020). The Influence of discrimination and coping style on blood pressure among African American women in the InterGEN Study. *Health Equity*, 4(1), 272-279.

\*Hennigan, A., **Wright, M. L.**, Bourne, G., Sales, A. (online first). A cross sectional exploration of cytokine-symptom networks in breast cancer survivors who received chemotherapy using network analysis. *Canadian Journal of Nursing Research*, June 1, 2020

\*‡**Wright, M. L.**, ¥Newhall, K., Barcelona, V., & Taylor, J. Y. (2019). African American mothers' attitudes toward genetic testing in the InterGEN study. *Journal of Community Genetics*, 11(3), epub. PMID: 31811592

\*Dunlop, A. L., Knight, A. K., Satten, G. A., Cutler, A., **Wright, M. L.**, Mitchell, R., Read, T., Mulle, J., Hertzberg, V. S., Hill, C., Smith, A., & Corwin, E. (2019). Stability of the vaginal, oral, and gut microbiome across pregnancy among African American women: The effect of socioeconomic status and antibiotic exposure. *Peer J*, 7:e8004. doi: 10.7717/peerj.8004. eCollection 2019. PMID: 31772833

\*Li, C., Wang, Z., Hardy, T., Huang, Y., Hui, Q., Crusto, C., **Wright, M.L.**, Taylor, J.Y., Sun, Y.V. (2019). Association of obesity with DNA methylation age acceleration in African American mothers from the InterGEN Study. *International Journal of Molecular Sciences*, 20(17), 4273. doi: 10.3390/ijms20174273. PMID: 31480455

\*Fettweis, J. M., Serrano, M. G., Brooks, J. P., Edwards, D. J., Girerd, P. H., Parikh, H., Huang, B., Arodz, T. J., Edupuganti, L., Glascock, A. L., Xue, J., Jimenez, N. R., Vivadelli, S. C., Fong, S. S., Sheth, N. U., Jean, S., Marinelli, A., Lee, V., Bokhari, Y. A., Lara, A. M., Mistry, S. D., Duckworth, R. A., Bradley, S. P., Koparde, V. N., Orenda, V., Milton, S. H., Rozycki, S. K., Matveyev, A. V., **Wright, M. L.**, Huzurbazar, S. V., Jackson, E. M., Smirnova, E., Korchach, J., Tsai, Y., Dickinson, M. R., Brooks, J. L., Drake, J. I., Sexton, A. S., Gravett, M. G., Rubens, C. E., Wijesooriya, N. R., Hendricks-Muñoz, K. D., Jefferson, K. K., Strauss III, J. F., & Buck, G. A. (2019). The vaginal microbiome and preterm birth. *Nature Medicine*, 25, 1012-1021 doi:10.1038/s41591-019-0450-2. PMID: 31142849

\*Taylor, J. Y., Ware, E. B., **Wright, M. L.**, Smith, J. A., & Kardia, S. L. R. (2019). Using genetic burden scores for gene-by-methylation interaction analysis on metabolic syndrome in African Americans. *Biological Research for Nursing*, 21(3), 279-285. Invited manuscript. PMID: 30781968

‡**Wright, M. L.**, Higgins, M., Taylor, J. Y., & Hertzberg, V. S. (2018). NuRsing research in the 21<sup>st</sup> century, R you ready? *Biologic Research for Nursing*, 21(1), 114-120. PMID: 30384771

- \*Wright, M. L.,** Fournier, C., Houser, M. C., Tansey, M., Glass, J., & Hertzberg, V. S. (2018). The potential role of the gut microbiome in ALS: A systematic review. *Biologic Research for Nursing, 20*(5), 513-521. doi: 10.1177/1099800418784202 PMID: 29925252
- \*Wright, M. L.,** Ware, E. B., Smith, J. A., Kardia, S. L. R., & Taylor, J. Y. (2018). Joint influence of SNPs and DNA methylation on lipids in African Americans from hypertensive sibships. *Biological Research for Nursing, 20*(2), 161-167. doi: 10.1177/1099800417752246 PMID: 29338330
- \*Wright, M. L.,** Huang, Y., Hui, Q., Newhall, K., Crusto, C., Sun, Y. V., & Taylor, J. Y. (2018). Parenting stress and DNA methylation among African Americans in the InterGEN Study. *Journal of Clinical and Translational Science, 1*(6), 328-333. doi: 10.1017/cts.2018.3 PMID: 29707254
- Eid, H. M., **Wright, M. L.,** Kumar, A., Qawasmeh, A., Hassan, S. T., Mocan, A., Nabavi, S. M., Rastrelli, L., Atanasov, A. G., & Haddad, P. S. (2017). Significance of microbiota in obesity and metabolic disease and the modulatory potential by medicinal plant and food ingredients. *Frontiers in Pharmacology, 8*, 837. doi: 10.3389/fphar.2017.00387 PMID: 28713266
- \*Brooks, J. P., Buck, G. A., Chen, G., Diao, L., Edwards, D. J., Fettweis, J. M., Huzurbazar, S., Rakitin, A., Satten, G. A., Smirnova, E., Waks, Z., **Wright, M. L.,** Yanover, C., & Zhou, Y. (2017). Changes in vaginal community state types reflect major shifts in the microbiome. *Microbial Ecology in Health and Disease, 28*(1). 1303265. doi: 10.1080/16512235.2017.1303265 PMID: 28572753
- Taylor, J. Y., **Wright, M. L.,** Hickey, K. T., & Housman, D. (2017). Genome sequencing technologies and nursing: What is the role of nurses and nurse scientists?. *Nursing Research, 66*(2), 1998-205. doi: 10.1097/NNR.0000000000000211 PMID: 28252579
- \*Starkweather, A. R., Kelly, D., Thacker, L., Deng, X., **Wright, M. L.,** Jackson-Cook, C. K., & Lyon, D. E. (2017). Relationships among psychoneurological symptoms and levels of C-reactive protein over 2 years in women with early-stage breast cancer. *Supportive Care in Cancer, 25*(1), 167-176. doi: 10.1007/s00520-016-3400-2 PMID: 27599815.
- \*Barcelona de Mendoza, V., **Wright, M. L.,** Agaba, C., Prescott, L., Desir, A., Crusto, C. A., Sun, Y. V., & Taylor, J. Y. (2017). A systematic review of DNA methylation and preterm birth in African American women. *Biological Research for Nursing, 19*(3), 308-317. doi: 10.1177/1099800416669049 PMID: 27646016.
- Taylor, J. Y., **Wright, M. L.,** & Housman, D. (2016). Lead toxicity and genetics in Flint, MI. *NPJ Genomic Medicine, 1*. 16018. PMID: 27398227 doi: 10.1038/npjgenmed.2016.18 PMID: 27398227.
- Wright, M. L.,** Dozmorov, M. G., Wolen, A., Jackson-Cook, C., Starkweather, A. R., Lyon, D. E. & York, T. P. (2016). Establishing an analytic pipeline for genome-wide DNA methylation. *Clinical Epigenetics, 8*(1), 45. doi: 10.1186/s13148-016-0212-7. PMID: 27127542

- Wright, M. L.**, Housman, D., & Taylor, J. Y. (2016). A perspective for sequencing familial hypercholesterolemia in African Americans. *NPJ Genomic Medicine*, 16012. doi: 10.1038/npjgenmed.2016.12 PMID: 29263812.
- ‡**Wright, M. L.**, Starkweather, A. R., & York, T. P. (2016). Mechanisms of the maternal exposome and implications for health outcomes. *Advances in Nursing Science*, 39(2). E17-30. doi: 10.1097/ANS.0000000000000110. PMID: 27149232 \*\*Selected as Editor's Choice for this issue
- Taylor, J. Y., **Wright, M. L.**, Crusto, C. A., & Sun, Y. (2016). The intergenerational impact of genetic and psychological factors on blood pressure study (InterGEN): Design and methods for complex DNA analysis. *Biological Research for Nursing*, 18(5), 521-30. doi: 10.1177/1099800416645399 PMID: 27118148
- Dahlen, H. G., Downe, S., **Wright, M. L.**, Kennedy, H. P., & Taylor, J. Y. (2016). Childbirth and consequent atopic disease: Emerging evidence on epigenetic effects based on the hygiene and EPIIC hypotheses. *BMC Pregnancy and Childbirth*, 16(4). doi: 10.1186/s12884-015-0768-9 PMID: 26762406
- \*‡**Wright, M. L.** & Starkweather, A. R. (2015). Antenatal microbiome: Potential contributor to fetal programming and establishment of the microbiome in offspring. *Nursing Research*, 64(4), 306-319. doi: 10.1097/NNR.0000000000000101 PMID: 26035769
- \*‡**Wright, M. L.**, Ralph, J. L., & Korniewicz, D. M. (2015). DNA methylation patterns in peripheral blood of pregnant women with group B streptococcus colonization. *Biologic Research in Nursing*, 17(4), 438-43. doi: 10.1177/1099800415584996 PMID: 25964656
- \*Anderson, C. M., Ralph, J., Johnson, L., Scheett, A., **Wright, M. L.**, Taylor, J. Y., Ohm, J. E., & Uthus, E. (2015). First trimester vitamin D status and placental epigenomics in preeclampsia among northern plains primiparas. *Life Sciences*, 129, 10-15. doi: 10.1016/j.lfs.2014.07.012 PMID: 25050465
- \*Anderson, C. M., Ralph J. L., **Wright, M. L.**, Uthus, E. O., Linggi, B., & Ohm, J. E. (2014). DNA methylation as a biomarker for preeclampsia. *Biologic Research in Nursing*, 16(4), 409-20. doi: 10.1177/1099800413508645 PMID: 24165327
- Capitulo, K., Klein, V., & **Wright, M.** (2013). Should prophylactic antibiotics be routinely given to a mother before a cesarean birth?. *MCN American Journal of Maternal Child Nursing*, 38(5), 266–267. doi: 10.1097/NMC.0b013e31829b3d68 PMID: 23958615
- Wright, M. L.**, Ralph, J. L., Ohm, J. E., & Anderson, C. M. (2013). DNA methylation in complex disease: Applications in nursing research, practice, and policy. *Nursing Outlook*, 61, 235-241. <http://dx.doi.org/10.1016/j.outlook.2013.04.010> PMID: 23849553
- Dahlen, H. G., Kennedy, H. P., Anderson, C. M., Bell, A. F., Clark, A., Foureur, M., Ohm, J. E., Shearman, A. M., Taylor, J. Y. **Wright, M. L.**, & Downe, S. (2013). The EPIIC hypothesis: Intrapartum effects on the neonatal epigenome and consequent health outcomes. *Medical Hypotheses*, 80(5), 656-662. doi: 10.1016/j.mehy.2013.01.017 PMID: 23414680

## PUBLICATIONS - Book Chapters

**Wright, M. L.** (2014). Infection control in the emergency room setting. In D. M. Korniewicz (Ed.), *Infection Control and Prevention: The Advanced Practice Role* (pp. 109-125) Lancaster, PA: DEStech Publications, Inc.

**Wright, M. L.** (2014). Infection control for emergency mobile health units. In D. M. Korniewicz (Ed.), *Infection Control and Prevention: The Advanced Practice Role* (pp. 215-232). Lancaster, PA: DEStech Publications Inc.

### **PUBLICATIONS – Articles in Review**

\*Dunlop, A.L., Satten, G.A., Hu, Y., Knight, A.K., Hill, C.C., **Wright, M.L.**, Smith, A.K., Read, T.D., Pearce, B.D., & Corwin, E.J. (in review). Vaginal microbiome composition in early pregnancy and risk of spontaneous preterm and early term birth among African American women. *Submitted to Frontiers in Cellular and Infection Microbiology, December 2020*

\*§Lim, S., ¥Rajagopal, S., ¥Jeong S., ¥Nzegwu, D., & ‡**Wright, M.L.** (in review). Group B streptococcus and the vaginal microbiome among pregnant women: a systematic review. *Re-submitted to PeerJ January 2021*

\*Halder, G.E., White, A.B., Brown, H.W., Caldwell, L., **Wright M.L.**, Giles, D.L., Bilagi, D., & Rogers, R.G. (in review). A telephone intervention to increase patient preparedness for surgery (TIPPS): A randomized trial. *Submitted to Obstetrics and Gynecology October 2020.*

\*Caldwell, L., Halder, G.E., Nutt, S., Rogers, R.G., **Wright, M.L.**, Baum, A., & White, A.B. (in review). The use of ancillary services by payment model in a novel pelvic floor disorders clinic. *Submitted to International Urogynecology Journal October, 2020*

\***Wright, M. L.**, Fettweis, J.M., Eaves, L.J., Silberg, J.L., Neale, M.C., Serrano, M.G., Jimenez, N.R., Prom-Wormley, E., Girerd, P.H., Borzelleca, J.F., Jefferson, K.K., Strauss III, J.F., York, T.P., & Buck, G.A. (in review). Vaginal microbiome *Lactobacillus crispatus* is heritable among women of European ancestry. *Submitted Communications biology October, 2020*

Dreisbach C., **Wright, M.L.**, Walker, R., & Keim-malpass, J. (in review). Nursing science as a STEM designated degree: A policy solution for the shortage of nurse scientists? *Revise and Resubmit to Nursing Outlook – currently revising*

\*‡**Wright, M. L.**, Mitchell, R. M., Dunn, A. B., Wissel, E. F., Dunlop, A. L., & Corwin, E. J. (in review). Risk and protective factors for vaginal *Lactobacillus* dominance among pregnant African American women. *Need to resubmit to new journal, in revision*

### **OTHER PUBLICATIONS**

Potter, K., **Wright, M. L.**, Ferrara, S., Brown, A.M., Trotter, T., Manges, K. (2020). Without a nurse, a hospital bed is just a bed. *Ms. Magazine* from (Op-Ed)

Joseph, P.J. & **Wright, M. L.** (2021). The microbiome, metabolomics, and nursing science: Part 2. *Biological Research for Nursing*, (In Press) (**Invited Editorial**).

‡**Wright, M. L.**, Morse, B., Phillips, C., Muir, K.J., Manges, K., White, A., & Bernstein, S. (2020). Concerned nurses ask: Are we heroes or expendable? *Ms. Magazine* from <https://msmagazine.com/2020/12/19/nurses-coronavirus-pandemic-strike/> (Op-Ed)

‡**Wright, M.L.** (2020). Exploring the vaginal bacteriophage frontier. *BJOG: An International Journal of Obstetrics & Gynaecology*, (In press) (**Invited Mini commentary**)

Joseph, P.J. & ‡**Wright, M. L.** (2020). The microbiome, metabolomics, and nursing science: Part 1. *Biological Research for Nursing*, 22(4), 434-435. (**Invited Editorial**).

‡**Wright, M.L.** (2020). Dysbiosis disconnect between research and clinical practice. *Journal of Women's Health*, 29(3), 283–284. doi: 10.1089/jwh.2020.8394 (**Invited editorial**). PMID: 32186965

McLemore, M. R., Tober, D., Stern, L., Asiodu, I., Eagen-Torkko, M., **Wright, M.**, Moret, J. D., Saint Louis, H. D., Hardeman, R., Howard, G., Tillman, S., Gatrall, C. E., Knutson, M. (2019, February 26) No deal: Providers sound off on Trump's domestic gag rule. *Ms. Magazine* from <http://msmagazine.com/blog/2019/02/26/no-deal-providers-sound-off-trumps-domestic-gag-rule/> (Op-Ed)

Askel, S., Broussard, L., Eagen-Torkko, M., Greenlee, C., Likis, F. E., McLemore, M., Moayed, G., Premkumar, A., Roach, J., Shattell, M., Shaw-Battista, J., Tober, D., **Wright, M.** (2017, December 20). The structure of scientific devolutions: An open letter from concerned scholars. *Huffington Post*, Retrieved from [https://www.huffingtonpost.com/entry/the-structure-of-scientific-devolutions-an-open-letter\\_us\\_5a3ac78be4b0df0de8b061f2](https://www.huffingtonpost.com/entry/the-structure-of-scientific-devolutions-an-open-letter_us_5a3ac78be4b0df0de8b061f2) (Op-Ed)

**Wright M. L.**, Anderson C. M., Uthus, E. O., & Ohm J. (2012) Validation of DNA Methylation Patterns: Potential Biomarker for Heritable Risk of Preeclampsia. *Western Journal of Nursing Research*, 34(8), 1074-5. doi: 10.1177/0193945912453685 (Meeting abstract)

Anderson, C. M., **Wright, M. L.**, Ralph, J. L., Uthus, E. O., & Ohm, J. E. (2012). Epigenomic markers for heritable risk of preeclampsia. *The FASEB Journal*, 26 (Meeting Abstract), 1101.6.

**Wright, M. L.**, Anderson, C. M., Uthus, E. O., & Ohm, J. E. (2012). DNA methylation in candidate genes as a biomarker for transgenerational risk of preeclampsia. *The FASEB Journal*, 26 (Meeting Abstract), 128.7

## RESEARCH PRESENTATIONS - Invited, Refereed

### Presentations at International Conference/Organization Meeting:

**Wright, M. L.**, Mitchell, R. M., Dunn, A. B., §Wissel, E. F., Dunlop, A. L., & Corwin, E. J. "Risk and protective factors for vaginal *Lactobacillus* dominance among pregnant African American women." Poster Presentation. International Society of Nurses in Genetics 2019 World Congress. San Antonio, Texas, November 2019.



- §Lim, S., & **Wright, M. L.** "Integrative review of factors influencing BRCA genetic testing among African Americans using an ecological model." Poster Presentation. International Society of Nurses in Genetics 2019 World Congress. San Antonio, Texas, November 2019.
- Wright, M. L.** "Parenting stress and DNA methylation among African-Americans in the Intergen Study." Podium Presentation. Sigma Theta Tau International's 28th International Nursing Research Congress. Dublin, Ireland, July, 2017.
- Wright, M. L.,** & Taylor, J. Y. "Gene-environment interactions related to hyperlipidemia among African Americans." Podium Presentation. Sigma Theta Tau International's 27th International Nursing Research Congress. Cape Town, South Africa, July, 2016.
- Wright, M. L.** "Methods for conducting reproducible research with multi-omic data." Invited Presentation at the International Society of Nurses in Genetics 2015 World Congress. Pittsburgh, Pennsylvania, November, 2015.
- Wright, M.,** & York, T. P. "Racial differences in genome-wide DNA methylation during the first trimester of pregnancy." Presentation at the International Society of Nurses in Genetics 2015 World Congress. Pittsburgh, Pennsylvania, November, 2015.
- Wright, M. L.,** & Starkweather, A. R. " Environmental exposure influence on the antenatal microbiome and health of offspring." Podium Presentation. Sigma Theta Tau International's 26th International Nursing Research Congress, San Juan, Puerto Rico, July 2015.
- Wright, M. L.,** & York, T. P. "Comparison of two analytic pipelines for evaluating genome-wide DNA methylation in clinical populations." Podium Presentation at the International Society of Nursing in Genetics, Scottsdale, Arizona, November, 2014.
- Wright, M. L.,** Anderson, C. M., Ralph, J. L., & Ohm, J. E. "Differentially methylated in genes associated with immune function in pregnant women colonized with Group B Streptococcus." Poster Presentation at the 8th World Congress on Developmental Origins of Health and Disease, Singapore, November, 2013.
- Anderson, C. M., Ralph, J. L., **Wright, M. L.,** & Ohm, J. E. "Functional relevance of early pregnancy DNA hypomethylation in preeclampsia." Poster Presentation at the 8th World Congress on Developmental Origins of Health and Disease, Singapore, November, 2013.
- Wright, M. L.,** Ralph, J. L., Ohm, J. E., & Anderson, C. M. "Examining the relationship between microbes and DNA methylation." Poster Presentation at the International Society of Nurses in Genetics, Bethesda, Maryland, October, 2013.
- Anderson, C. M., **Wright, M. L.,** Ralph, J. R., & Ohm, J. E. "Epigenomic biomarker identification and application in complex disease." Podium Presentation at the International Society of Nurses in Genetics, Bethesda, Maryland, October, 2013.
- Wright, M. L.,** Anderson, C. M., & Ohm, J. E. "Differential DNA methylation in genes associated with immune function in pregnant women with group B streptococcus colonization." Poster Presentation at the Aspen/Snowmass Perinatal Biology Symposium, Snowmass, Colorado, August, 2013.

**Wright, M. L.**, Anderson, C. M., Korniewicz, D. M., & Ohm, J. E. "Potential implications of intrapartum antibiotic administration on future development of disease." Podium Presentation at the International Society of Nurses in Genetics, Philadelphia, Pennsylvania, October, 2012.

Anderson, C. M., Ralph, J. L., **Wright, M. L.**, & Ohm, J. E. "Differential DNA methylation underlying heritable immunologic alterations in preeclampsia." The International Society of Nurses in Genetics, Philadelphia, Pennsylvania, October, 2012.

Anderson, C. M., Bell, A., Downe, S., Dahlen, H., Foureur, M., Powell, K. H., Ohm, J., Taylor, J., Shearman, A., Clark, A., & **Wright, M.** "Epigenetic impact of childbirth: The EPIIC collaboration (1 hour plenary session)." Podium Presentation at the International Society of Nurses in Genetics, Philadelphia, Pennsylvania, October, 2012.

**Wright, M. L.**, Anderson, C. M., Bell, A., Clark, A., Downe, S., Dahlen, H., Foureur, M., Kennedy, H. P., Ohm, J. E., Taylor, J. Y., & Shearman, A. "Epigenetics and intrapartum antibiotic administration". Podium Presentation at the Epigenetic Impact of Childbirth (EPIIC) International Research Collaboration, Honolulu, Hawaii, January, 2012.

**Wright, M. L.** "Infection control: A concept analysis." Poster Presentation at Sigma Theta Tau International. Cancun, Mexico, June, 2011.

#### **Presentations at National Conference/Organization Meeting:**

Papermaster, A. E., Halder, G. E., **Wright, M.**, Rogers, R. G., Aguilar, White, A. B. "Creating an Evidence-Based Care Pathway for Recurrent Urinary Tract Infections (rUTI) as Component of Value-Based Care." Poster Presentation at AUGS/IUGA Joint Scientific Meeting 2019, Nashville, TN, September, 2019.

**Wright, M. L.**, & York, T. P. "A comparison of two analytic pipelines for whole genome DNA methylation experiments." Podium Presentation at the 2014 State of the Science Congress on Nursing Research, Council for the Advancement of Nursing Science (CANS), Washington, DC, September, 2014.

Anderson, C. M., Ralph, J. L., **Wright, M. L.**, Johnson, L., & Ohm, J. E. "Early pregnancy C-reactive protein associated with differentially methylated DNA in nulliparous women." Podium Presentation at the 2014 State of the Science Congress on Nursing Research, Council for the Advancement of Nursing Science (CANS), Washington, DC, September, 2014.

Anderson, C. M., **Wright, M. L.**, Ralph, J. L., Uthus, E., & Ohm, J. E. "DNA methylation patterns suggest future and heritable cardiovascular risk: Potential for transformation of cardiovascular screening in preeclampsia." Poster presentation at the American Academy of Nursing (AAN) 39<sup>th</sup> Annual Meeting and Conference, Washington, DC, October, 2012.

Anderson, C. M., **Wright, M. L.**, Ralph, J. L., Uthus, E., & Ohm, J. E. "DNA methylation as biomarker for heritable preeclampsia." Podium presentation at the 2012 State of the Science Congress on Nursing Research, Council for the Advancement of Nursing

Science (CANS), Washington, DC, \*\*Selected as Presentation of Distinction.  
September, 2012.

**Wright, M. L.**, Anderson, C. M., Uthus, E. O., & Ohm, J. E. DNA methylation in candidate genes as a biomarker for transgenerational risk of preeclampsia." Podium Presentation at the Experimental Biology, San Diego, California, April, 2012.

**Local, State, Regional Presentations:**

§Lim, S., **Wright, M.L.**, Sales, A., ¥Rajagopal, S., ¥Nzegwu, D., Crusto, C., Taylor, J.Y. The influence of discrimination and coping on blood pressure among African American women in the InterGEN Study. St. David's CHPR 18<sup>th</sup> Annual Conference, Austin, TX, February, 2020.

**Wright, M. L.** "Vaginal microbiome related to infections among pregnant African American women with full term deliveries." Symposium Presentation. Southern Nursing Research Society. Atlanta, GA, March, 2018.

**Wright, M. L.**, Anderson, C. M., El-Masri, M., Ralph, J. L., Ohm, J. E., & Korniewicz, D. M. "Analysis of serum cytokines and DNA methylation in pregnant women with group B streptococcus colonization. Podium Presentation at Midwest Nursing Research Society. St. Louis, Missouri, March, 2014.

**Wright, M. L.**, Anderson, C. M., Ralph, J. L., & Ohm, J. E. "DNA methylation differences in pregnant women with group B streptococcus colonization. Poster Presentation at the 10<sup>th</sup> Annual Women's Health Research Day, VCU Institute for Women's Health. Richmond, Virginia, April, 2014.

**Wright, M. L.**, Anderson, C. M., & Ohm, J. E. "DNA methylation patterns associated with immune function in maternal group B streptococcus colonization. Poster Presentation at the University of North Dakota Epigenetics Symposium, Grand Forks, North Dakota, September, 2013.

**Wright, M. L.**, Anderson, C. M., Korniewicz, D. M., & Ohm, J. E. "DNA methylation could unlock answers for maternal group B streptococcus colonization. Poster Presentation at Midwest Nursing Research Society. Chicago, Illinois, March 2013.

**Wright, M. L.**, Anderson, C. M., Korniewicz, D. M., & Ohm, J. E. "Intrapartum antibiotic administration and the development of disease in offspring. Poster Presentation at the University of North Dakota 2013 Scholarly Forum. Grand Forks, North Dakota, March 2013.

Anderson, C. M., Brown-Borg, H., Zeng, H., Uthus, E. O., Johnson, L., Ralph, J. L., Senti, J., **Wright, M. L.**, Best, L. G. & Ohm, J. E. Vitamin D metabolism and genetic variants in preeclampsia. Poster Presentation at Midwest Nursing Research Society. Chicago, Illinois, March, 2013.

**Wright, M. L.**, Anderson, C. M., Ralph, J. L., & Ohm, J. E. "Investigating DNA methylation and inflammatory proteins in maternal group B streptococcus colonization. Poster Presentation at the University of North Dakota Epigenetics Symposium, Grand Forks, November, 2012.

Anderson, C. M., **Wright, M. L.**, Ralph, J. L., Uthus, E., & Ohm, J. E. "DNA methylation patterns for heritable risk for preeclampsia." University of North Dakota Epigenetics Symposium, Grand Forks, November, 2012.

**Wright, M. L.**, Korniewicz, D. M., Anderson, C. M., & Ohm, J. E. "Inflammation and DNA methylation as group B streptococcus colonization biomarkers." Poster Presentation at North Dakota EPSCoR 2012 State Conference. Grand Forks, North Dakota, September, 2012.

**Wright, M. L.**, Anderson, C. M., Uthus, E. O., & Ohm, J. E. "Validation of DNA methylation patterns: Potential biomarker for heritable risk of preeclampsia." Poster Presentation at Midwest Nursing Research Society. Dearborn, Michigan, April 2012.

**Wright, M. L.**, Anderson, C. M., Uthus, E. O., & Ohm, J. E. "Applying epigenetic methods in nursing research: Identification of potential biomarkers." Poster Presentation at the University of North Dakota 2012 Scholarly Forum. Grand Forks, North Dakota, February, 2012.

#### **RESEARCH PRESENTATIONS – Invited**

**Wright, M. L.** Research panel member, discussing Nursing Omics research. 2019 Sigma Nursing Research Dinner. Austin, TX, February, 2019.

**Wright, M. L.** "The vaginal microbiome and disparities in women's health". Dell Medical School Department of Women's Health Quarterly Research Series. Austin, TX, January, 2019.

Corwin, E. J., Dunlop, A. M. L., **Wright, M. L.**, & Mitchell, R. M. "The vaginal, oral, and gut microbiome among African American women: Risk and protective factors." THINK BIG Symposium Series: The microbiome in health and disease. Atlanta, GA, September, 2018.

**Wright, M. L.** "The vaginal microbiome: Devils in the details." Invited Presentation. ORCHARD specialty group meeting. Atlanta, GA, June, 2018.

**Wright, M. L.** "The vaginal microbiome and women's health." Invited Presentation. Grand Rounds for the Emory University Department of Gynecology and Obstetrics. Atlanta, GA, March, 2018.

Dunlop, A. L., & **Wright, M. L.** "Intergenerational transmission of risk: How the microbiome gets under the skin." Podium Presentation at the NIEHS/EPA Children's Centers Annual Meeting, San Francisco, CA, October, 2017.

**Wright, M. L.** "Microbiome research initiatives in the school of nursing: Environmental exposures influence on the maternal microbiome and health of their children." Oral Presentation at Nell Hodgson Woodruff School of Nursing, Emory University. Atlanta, Georgia, December, 2016.

**Wright, M. L.** "The human microbiome and health effects of prenatal microbiome exposures." **Invited web-based presentation** for the Collaborative on Health and the Environment, May, 2016. [https://www.healthandenvironment.org/partnership\\_calls/18459](https://www.healthandenvironment.org/partnership_calls/18459)

**Wright, M. L., & Taylor, J. Y.** "Proposed center grant on 'understanding the impact & developing useful educational tools for whole genome sequencing in the African American community' and case study example of: oculopharyngeal muscular dystrophy." Oral Presentation at Massachusetts Institute of Technology, Biology Department. Cambridge, Massachusetts, December, 2015.

## **PROFESSIONAL SERVICE**

### Affiliation Memberships

Center for Health Promotion and Disease Prevention Research in Underserved Populations, 2018 – present

Population Research Center, Faculty Research Affiliate, 2018 - present

### Professional Organization Membership & Service

2020 – Present	American Academy of Nursing, Fellow
2019 – Present	American Heart Association, Professional Member
2018 - Present	Texas Nurses Association, Member
2016 - Present	American Association of the Advancement of Sciences Member, 2016 - Present Student Member, 2012-2015
2016-2018	Georgia Nurses Association, Member
2012 - Present	International Society of Nurses in Genetics (ISONG) Research Committee, Co-Chair, 2018 – 2020 Metabolic Special Interest Group, Co-Chair 2012-2013
2012-2014	American Physiological Society, Student Member
2012, 2014	Council for the Advancement of Nursing Sciences, Member
2011-2015	Midwest Nursing Research Society, Student Member
2011-2013	Association of Practitioners in Infection Control, Student Member
2011-2013	American Society of Nutrition
2009 - Present	American Nurses Association, Member
2006-2009	Emergency Nurses Association, Member
2004 – Present	Sigma Theta Tau International, Member

### Consultations

2011	Infection Control: Creation of Action Plan to Reduce Blood Culture Contamination, University of Miami Hospital
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### Manuscript Reviewer

#### Current Editorial Board:

*Biological Research for Nursing*, 2020-present

#### Guest Editor:

*Biological Research for Nursing* – Microbiome and Metabolomics Special Issues (Part 1 & 2)

#### Invited Reviews:

*PLoS ONE* (2 in 2020-2021)

*AIDS Research and Human Retroviruses* (1 in 2020-2021)  
*Microbiome*, 2019  
*International Journal of Environmental Research and Public Health*, 2019  
*BJOG: An International Journal of Obstetrics & Gynaecology*, 2019  
*Western Journal of Nursing Research*, 2019  
*Journal of Women's Health*, 2019  
*Biological Research for Nursing*, 2015, 2016, 2017, 2018, 2019  
*Canadian Journal of Nursing Research*, 2018, 2019  
*Journal of Developmental Origins of Health*, 2019  
*peerJ*, 2019  
*Advances in Nursing Science*, 2016, 2019  
*Frontiers in Microbiology*, 2018  
*Clinical Epigenetics*, 2016  
*Nursing Research*, 2015, 2016, 2019

#### Conference Abstract Reviewer

Longhorn Research Poster Competition, 2020  
St. David's CHPR Annual Conference, 2019, 2020  
International Society for Nurses in Genetics Word Congress, 2015

#### Grant Proposal Reviewer

##### National Funding Sources:

NIH Special Interest Panel, Social Epigenomics, ZRG1 PSE-F (55) R, March 12, 2020.  
NIH Special Interest Panel, Pregnancy as a Critical Time in Women's Health, ZES1 LKB-K  
(R) 1, March 31 – April 1, 2020.

### **COMMITTEE SERVICE**

#### University Committees

2019-2020 Health Translation Opportunities Committee – Infectious disease and immunology

#### School of Nursing Committees

2020-2021 Precision Health T32 Summer Bootcamp 2021 Planning Committee  
2020- SON Nominations Committee  
2020- SON Committee on Committees  
2019-2020 SON Wellness Committee  
2018- Graduate Studies Committee  
2016 Publication Guideline Task Force, Nell Hodgson Woodruff School of Nursing  
Chair  
2012-2013 Graduate Council Committee, University of North Dakota  
PhD Student Representative  
2011-2013 Research and Scholarship Committee, University of North Dakota  
PhD Student Representative

### **DISSERTATION/THESIS COMMITTEE SUPERVISION**

#### Dissertation, Committee Chair

##### Current:

Lim, Sungju. PhD candidate, 2018-2020

Dissertation, Committee member

Current:

Wissel, Emily. Emory University, School of Nursing PhD candidate

Honors Thesis (Bachelor's degree), Second Reader

Current:

Julia Smith, The University of Texas at Austin, School of Human Ecology, Honors in Advanced Nutritional Science, "Effect of education level and SES on gestational weight gain in women with twin pregnancies". Supervisor, Elizabeth Widen

**SERVICE TO STUDENTS**

Graduate Advisor

Current PhD students:

Lim, Sungju

Sinay, Kristen

T32 student, Mentorship team member

Current:

Croce, Emily

Gill, Eliana

Sinay, Kristen

DNP Content Mentor

Current DNP students:

Lynn, Amy

**TEACHING ACTIVITIES**

**The University of Texas at Austin School of Nursing**

Graduate Courses

Fall 2020	N397L.3 Conceptual Foundations of Research Design and Methods, Guest Lecturer (Topic: Big Data)
Fall 2020	N395 Theoretical Basis for Precision Health Implementation Science, Guest Lecturer (Topic: Precision Omics)
Fall 2020	N382 Socio-cultural Influences on Health, Guest Lecturer (Topic: Social Epigenomics)
Fall 2019	N382 Socio-cultural Influences on Health, Guest Lecturer (Topic: Social Epigenomics)
Summer 2019	Nw394 Graduate Independent Study (Sungju Lim)

Doctoral research practicum preceptor (PhD) or content mentor (DNP)

Fall 2020	N395E Doctor of Nursing Practice role (Amy Lynn)
Spring 2020	N397S Research Practicum III (Sungju Lim)
Fall 2019	N397R Research Practicum II (Sungju Lim)
Spring 2019	N397Q Research Practicum I (Sungju Lim)

Undergraduate Courses

2020 - 2021	N255C Adult Health Nursing II - Fall and Spring
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Fall 2019	N264 Nursing Research, Guest Lecture (Topic, Microbiome and DNA methylation nursing research)
2019 - 2020	N255C Adult Health Nursing II - Fall and Spring
Summer 2019	BIO 377 Undergraduate Independent Study Credit (Aman Hingu)
2018 - 2019	N255C Adult Health Nursing II – Fall and Spring
Summer 2018	N284 Genomics Applications in Health Care, Guest Lecturer (Topic: Microbiome)

Undergraduate research practicum preceptor

Fall 2020	N264H Nursing Research: Honors (Tobechukwu Phillips)
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**Other Universities/Schools of Nursing/Hospitals**

Summer 2018	NRSG 301 Pathophysiology for Nurses
Fall 2017	NRSG 528 Advanced Physiology & Pathophysiology (Online & Hybrid)
Summer 2018	NRSG 431 Role Transition
Summer 2017	NRSG 431 Role Transition
2017-2019	NRSG 741 Big Data Analytics in Healthcare Guest Lecturer
Spring 2017	NRSG 202 Human Anatomy & Physiology II
Fall 2016	NRSG 202 Human Anatomy & Physiology I
2010-2011	Clinical Nursing Instructor in Hospital - Multiple Courses
2009-2010	Nursing Fundamentals Pharmacology Basic Adult Health
2007-2008	Clinical Nursing Instructor in Hospital - Multiple Courses

**PROFESSIONAL DEVELOPMENT**

2020	History of the Black Experience, University of Texas at Austin, Online.
2020	Behind the Data (Microbiome workshop), Online.
2020	SGL virtual symposium: Omics to advance symptom science research, Online.
2020	NIH Metagenomics Data Analysis Workshop, Online due to Covid19.
2020	Microbiome Data Congress 2020, Online due to Covid19.
2019	National Institute of Allergy and Infectious Diseases (NIAID) and National Institute of Nursing Research are hosting a Research Career “K” Development Workshop, National Institutes of Health, Bethesda, MD
2019	Texas Collaborative for Health Mothers and Babies Summit, Austin, TX
2018	QIIME 2 & other Bioinformatics Tools for Microbiome Analysis and Microbial Ecology, National Institutes of Health, Bethesda, MD
2017	Basic/Refresher Course, Human Subjects Research Curriculum, Web-based presentation, CITI completed
2016	Advanced Gene Mapping Course, Rockefeller University, New York, NY
2015	Causal Discovery from Biomedical Data Summer Short Course, Carnegie Mellon University, Pittsburgh, PA
2014	NINR Big Data Bootcamp, National Institutes of Health, Bethesda, MD
2014	International Health Research Workshop, Virginia Commonwealth University, Richmond, VA
2014	NIH SBIR/STTR Proposal Prep Workshop. Richmond, VA
2014	Basic/Refresher Course, Human Subjects Research Curriculum, Web-based presentation, CITI completed
2013	Translational Science in Perinatal Biology Course, University of Texas Health Science Center, San Antonio, TX



- 2013 Human Teratogens, Harvard University, Boston, MA
- 2012 NINR Summer Genetics Institute Fellow, National Institutes of Health, Bethesda, MD
- 2011 Human Research Curriculum, Web-based presentation: CITI; completed
- 2011 Eliminating Health Disparities by addressing sociocultural and environmental root causes. University of Miami, Coral Gables, FL
- 2011 Future of Nursing, "From recommendation to implementation". University of Miami, Coral Gables, FL
- 2011 APIC Educational conference and international meeting: Translating Science-sustainable solution. Baltimore, MD
- 2010 Developing nurse scientist course, Web-based presentation: The National Institute of Nursing Research; completed
- 2010 Social and behavioral responsible conduct of research course, Web-based presentation: CITI; completed
- 2009 Faculty convocation, Keiser University, Ft. Lauderdale, FL
- 2009 Exam item writing seminar presented by ATI. Ft. Lauderdale, FL
- 2009 Teaching strategies for adult learners. Keiser University, Ft. Lauderdale, FL