



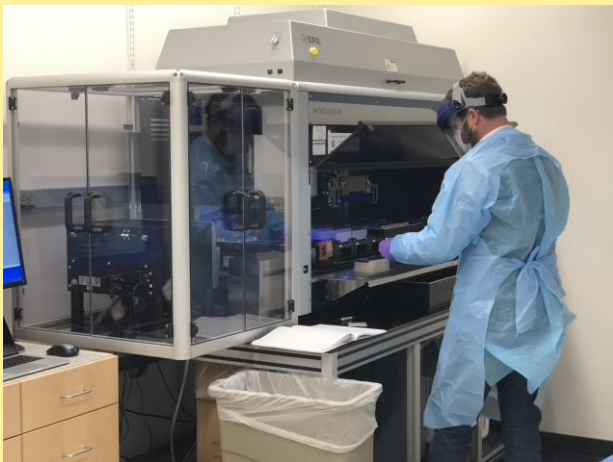
UNIVERSITY of MARYLAND
MARLENE AND STEWART GREENEBAUM
COMPREHENSIVE CANCER CENTER

UMGCCC Population Science

2020 Retreat

FEATURES

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Program Co-leaders:

Joanne F. Dorgan, PhD, MPH
Cheryl L. Knott, PhD, FAAHB

2020 Population Science Retreat Agenda

9:00 – 9:10 a.m.	Welcome, Opening Remarks and Updates	Dr. Joanne Dorgan and Dr. Cheryl Knott
9:10 – 9:20 a.m.	Community Outreach & Engagement	Dr. Cheryl Knott and Mr. Nathaniel Woodard
9:20 – 9:30 a.m.	Manuscript Tracking	Ms. Sarah Laye
9:30 – 9:40 a.m.	Shared Services and Member Infrastructure Needs	Dr. Rena Lapidus and Population Science Members
9:40 – 11:55 a.m.	Member Presentations	Population Science Members
11:55 – 12:00 p.m.	Closing Remarks	Dr. Joanne Dorgan and Dr. Cheryl Knott



The Population Science Program Overview

Population Science (PS) is one of the five research programs of the University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center (UMGCCC). Including faculty from the University of Maryland Baltimore and College Park campuses, University of Maryland Baltimore County, and Morgan State University, it is the focal point for research on cancer epidemiology, prevention, and outcomes in the University of Maryland System.

The overall goals of the Population Science Program are to identify determinants of cancer etiology, cancer-related behaviors, and cancer outcomes and translate basic discoveries into behavioral cancer prevention and control interventions.

The PS Program has unique strengths and a significant emphasis on reducing cancer disparities, working directly with populations in the UMGCCC catchment area.



The aims of the Population Science Program's research activities are:

- 1. Epidemiology of infection- & hormone-related cancers** — Identify the molecular, genetic, and lifestyle determinants of infection- and hormone-related cancers in the United States and globally.
- 2. Equity in cancer prevention & early detection** — Identify psychosocial influences on cancer-related health behaviors and develop and evaluate interventions to foster recommended cancer-related behaviors, particularly in medically underserved populations.
- 3. Cancer outcomes** — Identify mechanisms of cancer treatment-related pain and to characterize individual, treatment, and community level influences on disparities in cancer outcomes.



Population Science Program Members And Research Highlights



Clement A. Adebamowo, BM, ChB, ScD, FWACS, FACS

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Honors and Awards

- 2018 Fellow of the American Society of Clinical Oncology (ASCO)
- Co-Chair of the H3Africa Steering Committee

Research Interests

Cancer, Nutrition, Genomics and NCD Epidemiology; Research ethics; Training and capacity development

Grants

- NIH funded R25, 6/1/17-5/31/22 - ENTRENCHING TRAINING AND CAPACITY IN RESEARCH ETHICS IN NIGERIA (ENTRENCH) PROGRAM
- NIH funded U01, 9/5/17-6/30/22 - AFRICAN FEMALE BREAST CANCER EPIDERMIOLOGY (AFBRECANE) STUDY
- NIH funded U54, 9/19/13-7/31/20 - AFRICAN COLLABORATIVE CENTER FOR MICROBIOME AND GENOMICS RESEARCH (ACCME)

Publications

- Dareng E. O., Ma B., Famooto A. O., Akarolo-Anthony S. N., Offiong R. A., Olaniyan O., Dakum P. S., Wheeler C. M., Fadrosch D., Yang H., Gajer P., Brotman R. M., Ravel J., **Adebamowo C. A.** Prevalent high-risk HPV infection and vaginal microbiota in Nigerian women. *Epidemiol. Infect.* 2016 Jan;144(1):123-37. PubMed PMID: 26062721
- Jedy-Agba E. E., Oga E. A., Odutola M., Abdullahi Y. M., Popoola A., Achara P., Afolayan E., Banjo A. A., Ekanem I. O., Erinomo O., Ezeome E., Igbinoba F., Obiorah C., Ogunbiyi O., Omonisi A., Osime C., Ukah C., Osinubi P., Hassan R., Blattner W., Dakum P., **Adebamowo C. A.** Developing National Cancer Registration in Developing Countries - Case Study of the Nigerian National System of Cancer Registries. *Front Public Health.* 2015 Jul 30;3:186. doi: 10.3389/fpubh.2015.00186. eCollection 2015. Review. PubMed PMID: 26284233; PubMed Central PMCID: PMC4519655
- Adebamowo S. N., Ma B., Zella D., Famooto A., Ravel J., **Adebamowo C.** And ACCME Research Group *Mycoplasma hominis* and *Mycoplasma genitalium* in the Vaginal Microbiota and Persistent High-Risk Human Papillomavirus Infection. *Frontiers in Public Health* 2017; 5(4): Epub 2017 June 26. <https://doi.org/10.3389/fpubh.2017.00140>.
- Jedy-Agba E., McCormack V., Olaomi O., Badejo W., Yilkudi M., Yawe T., Ezeome E., Salu I., Miner E., Anosike I., Adebamowo S. N., Achusi B., Dos-Santos-Silva I., **Adebamowo C.** Determinants of stage at diagnosis of breast cancer in Nigerian women: Sociodemographic, breast cancer awareness, health care access and clinical factors. *Cancer Causes Control.* 2017 Jul 28; 7: 685-697. doi: 10.1007/s10552-017-0894-y.
- Adebamowo S. N., Olawande O., Famooto A. O., Dareng E. O., Offiong A. R., **Adebamowo C. A.** Persistent Low-Risk and High-Risk HPV Infections of the Uterine Cervix in HIV Negative and HIV Positive Women. *Frontiers in Public Health.* 2017 Jul 21; 5: 178. doi: 10.3389/fpubh.2017.00178. eCollection 2017. PMID: 28785554.



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Honors and Awards

- *Rising Star in Global Health, Grand Challenges Canada, 2012*
- *Bernard Lown Visiting Scholar Grant, 2015, 2016*
- *American Heart Association Early Investigator Travel Grant, 2016*
- *American Society of Clinical Oncology's Conquer Cancer Foundation Merit Award, 2016*

Research Interests

Human Papillomavirus, Genetics, Genomics, HIV-Associated Cancers, Vaginal Microenvironment, Cytokines, Cervical Cancer, Breast Cancer, Cardiometabolic Disorders, Immuno-epidemiology, Genetic Epidemiology, Measurement Error, Microbiota, Nutritional Epidemiology, Clinical Trials

Grants

- ACS funded IRG, 7/22/19-7/21/20 - Development of a multi-omics classifier for high risk HPV triage

Publications

- Dareng E, Ma B, Famooto A, **Akarolo-Anthony SN**, et al. Prevalent High-Risk HPV Infection and Vaginal Microbiota In Nigerian Women. *Epidemiol. Infect.* 2016 Jan;144(1):123-37. Pubmed PMID: 26062721.
- **Adebamowo SN**, Spiegelman D, Willett W, Rexrode K. Dietary Cation Intake and The Risk Of Stroke Among Women. *International Journal Of Stroke.* 2015 Oct; 10(7):1093-100. PMID: 26044278.
- **Adebamowo SN**, Spiegelman D, Flint A, Willett W, Rexrode K. The Association Between Intakes Of Magnesium, Potassium and Calcium and The Risk Of Stroke: 2 Cohorts Of Us Women And Updated Meta-Analyses. *American Journal Of Clinical Nutrition.* 2015; Jun (101)6: 1269-77. PMID: 25948665
- Emmanuel A. Oga, Lisa M Schumaker, Biodun Sulyman Alabi, Darlington Obaseki, Aniefon Umana, Ima-Abasi Basse, Godwin Ebughe, Olabode Oluwole, Teniola Akeredolu, **Sally N. Adebamowo**, et al. Paucity Of HPV-Related Head And Neck Cancers (HNC) In Nigeria. *Plos One.* 2016 Apr 6;11(4):E0152828. Doi: 10.1371/Journal.Pone.0152828. PMID: 27050815.
- Peprah E, Wiley K, Troyer J, **Adebamowo S. N**, Adu D, Mayosi B. M, Ramsay M, Motala A. A, Adebamowo C, Ovbiagele B, Owolabi M of the H3africa Cardiovascular Diseases Working Group and as Members of the H3africa Consortium. Building A Platform To Enable NCD Research To Address Population Health In Africa. *Global Heart.* 2016; 11(1):165-170. PMID: 27102038.
- **Adebamowo SN**, Adeyemo AA, Tekola-Ayele F, et al. Impact Of Type 2 Diabetes On Impaired Kidney Function In Sub-Saharan African Populations. *Frontiers Endocrinology.* 2016 May 30;7:50. PMID: 27303364.
- Jedy-Agba EE, Dareng EO, **Adebamowo SN**, et al. The burden of HPV associated cancers in two regions in Nigeria 2012-2014. *Cancer Epidemiol.* 2016 Dec; 45:91-97. PMID: 27780076.



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Research Interests

At the UMSOM, Dr. Barry's research aims to further investigate the complex interplay between genetic, epigenetic and environmental factors and cancer risk using population-based studies. Her current research largely focuses on prostate cancer, but she plans to apply similar methodologies for other cancers and to expand to study prognostic markers for cancer as well. One of the goals of Dr. Barry's research in prostate cancer is to identify biomarkers that may help distinguish aggressive disease from indolent disease that would not progress to cause harm. There is a critical need to identify markers specific to aggressive prostate cancer to avoid unnecessary treatment of indolent prostate cancers and to focus attention on cancers that are clinically relevant.

Grants

- NCI funded K07, 7/15/18-6/30/23 - Epigenomic and transcriptomic markers of aggressive prostate cancer among African American men

Publications

- **Barry KH**, Martinsen JI, Alavanja MCR, et al. Risk of early-onset prostate cancer associated with occupation in the Nordic countries. *Eur J Cancer*. 2017 Dec;87:92-100. doi: 10.1016/j.ejca.2017.09.023. Epub 2017 Nov 10. PubMed PMID: 29132062; PubMed Central PMCID: PMC6312186.
- **Barry KH**, Moore LE, Sampson JN, et al. Prospective study of DNA methylation at chromosome 8q24 in peripheral blood and prostate cancer risk. *Br J Cancer*. 2017 May 23;116(11):1470-1479. doi: 10.1038/bjc.2017.104. Epub 2017 May 2. PubMed PMID: 28463958; PubMed Central PMCID: PMC5520085.
- Alexander M, Koutros S, Bonner MR, **Barry KH**, et al. Pesticide use and LINE-1 methylation among male private pesticide applicators in the Agricultural Health Study. *Environ Epigenet*. 2017 May;3(2):dvx005. doi: 10.1093/eep/dvx005. eCollection 2017 May. PubMed PMID: 29492307; PubMed Central PMCID: PMC5804545.
- Rusiecki JA, Beane Freeman LE, Bonner MR, Alexander M, Chen L, Andreotti G, **Barry KH**, et al. High pesticide exposure events and DNA methylation among pesticide applicators in the agricultural health study. *Environ Mol Mutagen*. 2017 Jan;58(1):19-29. doi: 10.1002/em.22067. Epub 2016 Dec 20. PubMed PMID: 27996157; PubMed Central PMCID: PMC5416937.



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Research Interests

serious mental illness, substance use disorders, community functioning, negative symptoms

My program of research is focused on developing and testing interventions for improving health, treating substance use disorders, and enhancing community engagement and social functioning in individuals with serious mental illness (SMI) at both the early and later stages of illness. My work has focused on both understanding and developing interventions that address the most common and challenging comorbidities associated with SMI - substance use disorders and negative symptoms.

Grants

- NIH funded R01, 4/15/16-3/31/21 - Pharmacogenetic Treatment with Anti-Glutaminergic Agents for Comorbid PTSD & AUD
- VA funded I01, 7/1/15-6/30/20 – Improving Negative Symptoms & Community Engagement in Veterans with Schizophrenia

Publications

- **Bennett, M.E.**, Brown, C.H., Li, L., Himelhoch, S., Bellack, A., & Dixon, L. (2015). Smoking cessation in individuals with serious mental illness: Results of a randomized controlled trial of two psychosocial interventions. *Journal of Dual Diagnosis*, 11(3-4), 161-173. doi: 10.1080/15504263.2015.1104481.
- Dixon, L.B., Goldman, H.H., **Bennett, M.E.**, Wang, Y., McNamara, K.A., Mendon, S.J., Goldstein, A.B., Choi, C.J., Lee, R.J., Lieberman, J.A., & Essock, S.M. (2015). Implementing coordinated specialty care for early psychosis: The RAISE Connection Program. *Psychiatric Services in Advance*, March 16, 2015; doi: 10.1176/appi.ps.201400281
- **Bennett, M.E.**, Wilson, A.L., Genderson, M., & Saperstein, A.M. (2013). Smoking cessation in people with schizophrenia. *Current Drug Abuse Reviews*, 6(3), 180-190.
- **Bennett, M.E.**, Brown, C.H., Peer, J., Li, L., & Bellack, A.S. (2012). Patterns and predictors of changes in substance use in individuals with schizophrenia and affective disorders. *Journal of Dual Diagnosis*, 8(1), 2-12. NIHMSID: NIHMS362250



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Honors and Awards

- *Honoree, University of Maryland's Celebration of Scholarship and Research, 2015, 2016, 2017, 2018.*
- *Consortium of Universities for Global Health (CUGH) Video Competition. First Place, Global Advocacy Category. Boston, MA, 2015.*
- *2012 Society for Adolescent Medicine/Iris F. Litt Visiting Professorship in Adolescent Health Research, awarded March 2011.*

Research Interests

Dina L.G. Borzekowski is an internationally recognized expert in the area of children, media, and health. Dr. Borzekowski's domestic and international research involves studying how youth come to use media and how media has an impact on the health and well-being of children and adolescents.

Publications

- **Borzekowski, D.L.G.**, Pires, P.P. (2018). A six country study of young children's media exposure, logo recognition, and dietary preferences. *Journal of Children and Media*, 12, 143-158.
- **Borzekowski, D.L.G.** (2017). A quasi-experiment examining the impact of *Akili and Me* on Tanzanian children. *Journal of Applied Developmental Psychology*, 54, 53-59.
- **Borzekowski, D.L.G.**, *Chen, J.C. (2016). Tobacco cues in India: An ecological momentary assessment. *Tobacco Induced Diseases*. 14(1): 16-26. DOI: 10.1186/s12971-016-0081-z.
- *Pires, P., Ribas, R.C., **Borzekowski, D.L.G.** (2015). Attitudes and intentions to smoke: A study of young Brazilian children. *Child: Care, Health and Development*, 41, 1124-1130.
- **Borzekowski, D.L.G.**, Cohen, J.E. (2014). Young children's perceptions of health warning labels on cigarette packages: A study in six countries. *Journal of Public Health*, 22, 175-185.
- **Borzekowski, D.L.G.**, *Guan Y., Erby, L., Smith, K., Roter, D. (2013). The Angelina Effect: Immediate reach, grasp, and impact of going public. *Genetics in Medicine*, 16, 516-521.
- **Borzekowski, Dina L.G.**, Cohen, Joanna E. (2013). The global reach of tobacco marketing among young children. *Pediatrics*, 132; e825.
- **Borzekowski, Dina L.G.**, McCarthy, Cathy, Rosenfeld, Walter D. (2012). Ten years of TeenHealthFX.com: A case study of an adolescent health website. *Pediatric Clinics of North America: Adolescents and Media*. 59(3), 717-727.
- **Borzekowski, D.L.G.**, Henry, H.K.M. (2011). The impact of *Jalan Sesama* on the educational and healthy development of Indonesian preschool children: An experimental study. *International Journal of Behavioral Development*, 35, 169 - 179.
- **Borzekowski, D.L.G.**, Macha, J. (2010). The impact of *Kilimani Sesame* on the healthy development of Tanzanian preschool children. *Journal of Applied Developmental Psychology*, 31, 298-305.



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Honors and Awards

2013

- *GenomeWeb Young Investigator Award*
- *The North American Menopause Society (NAMS) New Investigator Award*
- *The Infectious Diseases Society for Obstetrics and Gynecology Young Investigator Award*

2015

- *Best Paper Award, North American Menopause Society/Lippincott Williams & Wilkins Menopause Journal*

Research Interests

I am an infectious diseases epidemiologist who has integrated the study of genomics into public health research. Over the past 10 years, I have developed a research career in various aspects of the human microbiome with an emphasis on women's health. My research has ranged between the role of the vaginal microbiome in susceptibility to sexually transmitted infections (STIs) and the behavioral and biological factors associated with the development of bacterial vaginosis (BV).

Grants

- NIH funded R01, 2/5/16-1/31/21 – Lubricant Use and the Vaginal Microbiome
- NIH funded R01, 5/1/15-4/30/20 - Longitudinal Study of the Vaginal Microbiome Prior To Incident STI

Publications

- Nowak RG, Randis TM, Desai P, He X, Robinson CK, Rath JM, Glover ED, Ratner AJ, Ravel J, **Brotman RM**: Higher Levels of a Cytotoxic Protein, Vaginolysin, in Lactobacillus-Deficient Community State Types at the Vaginal Mucosa. *Sex Transm Dis* 2018, 45(4):e14-e17. PMID: PMC5847449.
- Kenyon C, Buyze J, Klebanoff M, **Brotman RM**. The role of sexual networks in studies of how BV and STIs increase the risk of subsequent reinfection. *Epidemiol Infect* 2018:1-7.
- Geller RJ, **Brotman RM**, O'Brien KM, Fine DM, Zota AR. Phthalate Exposure and Odds of Bacterial Vaginosis Among U.S. Reproductive-Aged Women, NHANES 2001-2004. *Reprod Toxicol* 2018.
- Klebanoff MA, **Brotman RM**: Treatment of bacterial vaginosis to prevent preterm birth. *Lancet* 2018, 392(10160):2141-2142.
- Kenyon CR, Delva W, **Brotman RM**. Differential sexual network connectivity offers a parsimonious explanation for population-level variations in the prevalence of bacterial vaginosis: a hypothesis. *BMC Women's Health* 2019, 19(1):8.
- Turpin R, **Brotman RM**, Klebanoff MA, Miller RS, He X, Slopen N. Perceived stress and incident sexually transmitted infections in a prospective cohort study. *Annals of Epidemiology*, in press.
- Holm JB, Humphrys MS, Robinson CK, Settles ML, Ott S, Fu L, Yang H, Gajer P, He X, Gravitt PE, **Brotman RM**, Ravel J. Ultra-high throughput multiplexing and sequencing of long amplicon regions on the Illumina HiSeq 2500 platform. *mSystems*, in press.



James Butler III, DrPH

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Honors and Awards

- 2016 - present, *Academy for Excellence in Teaching and Learning (AETL) fellow.*
- 2016; 2017; 2018 - *Most Valuable Professor (M.V.P.)*
- 2015 – *Exceptional Educator Award.*
- 2014; 2015 - *Graduate Faculty Mentor of the Year Award Nominee.*

Research Interests

Dr. Butler's research is anchored in an ecological framework that incorporates individual, social structure and environmental influences in understanding and eliminating tobacco-related health disparities.

Publications

- Chen JC, Choi K, Kirchner TK, Feldman R, **Butler J**, Mead E L (2019). Flavored Cigar Smoking among African American young adult dual Users: An ecological momentary assessment. *Drug and Alcohol Dependence*, 196, 79-85.
- Kidanu A, **Butler J**, Dyer TV (2019). Assessing the knowledge, attitudes, and behaviors of hookah smoking among Ethiopian and Eritrean Americans. *Journal of Healthcare for the Poor and Underserved*, 30, 378-391.
- Iles I, Nan X, Ma M, Feldman R, **Butler J**, Wang MQ, Zhao (2018). Self-affirmation and defensive processing of graphic cigarette warning labels among African Americans. *Health Education Journal*, doi:10.1177/0017896918805129.
- **Butler J**, Fryer CS, Garza MA, Quinn SC, Thomas SB (2018). Commentary: Critical Race Theory Training to Eliminate Racial and Ethnic Health Disparities: The Public Health Critical Race Praxis Institute. *Ethnicity and Disease*, 28(1), 279-284.
- Mead EL, Lindstrom Johnson S, Siddiqui J, **Butler J**, Kirchner T, Feldman RH (2018). Beyond blunts: Reasons for cigarette and cigar use among African American young adult dual users. *Addiction Research and Theory*, 26(5), 349-360.
- **Butler J**, Fryer CS, Ward E, Westaby K, Adams A, Esmond SL, Garza MA, Hogle J, Scholl LM, Quinn SC, Thomas SB, Sorkness CA (2017). The health equity leadership institute (HELI): Developing workforce capacity for health disparities research. *Journal of Clinical and Translational Science*, 1(3), 153-159.
- Mayfield-Johnson S & **Butler J** (2017). Moving from pictures to social action: An introduction to photovoice as a participatory action tool. *New Dimensions for Adult and Continuing Education: Practical Insights*, 154, 49-59.
- Mead EL, Lindstrom Johnson S, Siddiqui J, **Butler J**, Kirchner T, Feldman RH (2017). Beyond blunts: Reasons for cigarette and cigar use among African American young adult dual users. In press, *Addiction Research and Theory*.



Shuo Chen, PhD

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Honors and Awards

- 2019 *Avenir Award, National Institute of Health, USA.*
- 2012 *Young Investigator Award Competition Travel Award, American Statistical Association, Biometrics Section, JSM 2012.*
- 2011 *Statistical Learning and Data Mining Student Paper Competition winner, American Statistical Association, JSM 2011.*

Research Interests

Dr. Chen is a biostatistician with a research focus on modeling large biomedical data with complex and organized structures (e.g., imaging and omics data). He develops novel machine learning and statistical models for the analysis of imaging and omics data. Dr. Chen also has extensive experience in biostatistical collaborative research including clinical trial design and analysis, environmental health, infectious disease, and cancer research.

Publications

- **Chen, S.**, Bowman, F.D., Xing, Y., (2019). Detecting and Testing Altered Brain Connectivity Networks with K-partite Network Topology. *Computational Statistics and Data Analysis*, in process.
- **Chen, S.**, Xing, Y., Kang, J., Kochunov P., Hong, E.L. (2018). Bayesian Modeling of Dependence in Brain Connectivity Data. *Biostatistics*, in process.
- **Chen, S.**, Kang, J., Xing, Y., Zhao, Y., Milton, D. (2018). Estimating Large Covariance Matrix with Network Topology for High-dimensional Biomedical Data. *Computational Statistics and Data Analysis*, in process.
- Chiappelli J., **Chen S.**, Hackman, A., & Hong, L. E. (2017). Evidence for differential opioid use disorder in schizophrenia in an addiction treatment population. *Schizophrenia Research*.
- **Chen S** , Xing Y and Kang J (2017). Latent and Abnormal Functional Connectivity Circuits in Autism Spectrum Disorders. *Front. Neurosci.* 11:125. doi: 10.3389/fnins.2017.00125
- **Chen S**, Bowman F.D., and Mayberg H. (2016). A Bayesian Hierarchical Framework for Modeling Brain Connectivity for Neuroimaging Data, *Biometrics*, 72. 2. . DOI: 10.1111/biom.12433
- **Chen S**, Kang J, Xing Y, and Wang G, (2015). A parsimonious statistical method to detect group-wise differentially expressed functional connectivity networks, *Human Brain Mapping*, 36(12), 5196-5206. DOI: 10.1002/hbm.23007



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Research Interests

Dr. Curbow's research interests fall within these general areas: cancer prevention and control, medical treatment decision making, health disparities, and health communication.

Publications

- Nightingale, CL, Pereira, DB, **Curbow, BA**, Wingard, JR, Carnaby, GD. (in press) Prospective Biopsychosocial Investigation into Head and Neck Cancer Caregiving. *Biological Research for Nursing*.
- Nguyen, J, Moorhouse, M, **Curbow, B**, Christie, J, Walsh-Childers, K, & Islam, S (2016) Construct validity of the eHealth Literacy Scale among two adult populations: A Rasch Analysis. *JMIR Public Health and Surveillance*. May 20;2(1):e24.
- Nightingale, CL, Pereira, DB, **Curbow, BA**, Wingard, JR, Carnaby, GD (2016). Burden, quality of life, and social support in caregivers of patients undergoing radiotherapy for head and neck cancer: a pilot study. *Chronic Illness*.
- King-Marshall, EC; Mueller, N, Dailey, AB, Barnett, TE, George, TD, Jr, Sultan, S & **Curbow, B**. (2015) "It's just another test they want to do": Patient and Caregiver Understanding of the Colonoscopy Procedure. *Patient Education & Counseling*, 99, 651-658.
- Soule, EK, Barnett, TE, **Curbow, BA**, Moorhouse, MD, & Weiler, RM (2015). Hookah and alcohol use among young adult hookah smokers: a mixed methods study. *American Journal of Health Behavior*, 39, 665-673.
- **Curbow, BA**, Dailey, A, King-Marshall, EC, Barnett, TE, Schumacher, J, Sultan, S, & George, TJ, Jr. (2015). Pathways to colonoscopy in the South: Seeds of health disparities. *American Journal of Public Health*. Published online March 2015.
- King, J. L., Pomeranz, J. L., Barnett, T. E., King-Marshall, E., Nguyen, J., & **Curbow, B**. (2015). Poor health among smokers obtaining colonoscopy screening: Making the case for cessation intervention. *Public Health*. Published online March 11, 2015.
- Barnett, TE, Forrest, J, Porter, L, & **Curbow, BA** (2014). A multi-year assessment of hookah use prevalence among Florida high school students. *Nicotine & Tobacco Research*, 16, 373-377.
- Nightingale, CL, Pomeranz, J, Carnaby, G, & **Curbow, B** (2014). Quality of life considerations for life care planning. *The Rehabilitation Professional*, 22 (133-139).
- Polanco, Y, Salazar, JC, & **Curbow, B** (2014). A quantitative analysis of Columbian campesinos' use of pesticides: perceived control and confidence in this use. *Rev. Fac. Nac. Salud Pública*, 32, 373-382.



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Research Interests

Nutrition, Nutritional Supplements, Nutrigenomics, Exercise, Mind-body
Medicine, Integrative Medicine

Dr. Chris D'Adamo is an epidemiologist with expertise in the synergistic effects of healthy lifestyle practices on human health and wellness. He received his Ph.D. in Epidemiology from the University of Maryland School of Medicine and is currently an Assistant Professor with dual appointments in the Center for Integrative Medicine within the Department of Family & Community Medicine as well as in the Department of Epidemiology & Public Health. Dr. D'Adamo serves as the Director of Research at the Center for Integrative Medicine and also holds adjunct faculty positions in the Gerontology Doctoral Program of the University of Maryland and at Maryland University of Integrative Health, where he was involved in the creation of the Nutrition and Integrative Health graduate program.

Grants

- NIH funded R25, 9/1/18-6/30/23 - UMB CURE Connections: an integral link in a Baltimore minority STEM education pipeline

Publications

- Pierce B, Bowden B, McCullagh M, Diehl A, Chissell Z, Rodriguez R, Berman BM, **D'Adamo CR**. A Summer Health Program for African-American High School Students in Baltimore, Maryland: Community Partnership for Integrative Health. *Explore (NY)*. 2017 May-Jun;13(3):186-197. doi: 10.1016/j.explore.2017.02.002. Epub 2017 Feb 24. PubMed PMID: 28373062; PubMed Central PMCID: PMC6124656.
- **D'Adamo, CR.**, Miller, R., Shardell, M., Orwig, D., Hochberg, M., Ferrucci, L., Semba, R., Yu-Yahiro, J., Streeten, E., Magaziner, J., Hicks, G. (2012). Higher Serum Concentrations of Dietary Antioxidants are Associated with Lower Levels of Inflammatory Biomarkers during the Year after Hip Fracture. *Clinical Nutrition* 31(5):659-65.
- **D'Adamo, CR.**, Sahin, A. (2014). Soy Foods and Supplementation: A Review of Common Perceived Health Benefits and Risks. *Alternative Therapies in Health and Medicine* 20S 1:39-51.
- Ranke T., St. George DM., Mitchell L., **D'Adamo CR**. (2014). Evaluation of the Balanced Menus Challenge: a healthy food and sustainability program in hospitals in Maryland. *Public Health Nutrition* Dec 29:1-9.
- **D'Adamo CR.**, McArdle PF., Balick L., Peisach E., Ferguson T., Diehl A., Bowden B., Pierce B., Berman BM. (2016). Spice MyPlate: Nutrition Education focusing upon Spices and Herbs May Improve Diet Quality and Attitudes among Urban High School Students. *American Journal of Health Promotion* 30(5) 346-356.



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Honors and Awards

- *American Cancer Society Mentored Research Scholar Grant: Biobehavioral Mechanisms of Breast Cancer Racial Disparities (2017-2021)*
- *NIH/NCI Funding Award to Advance Research on Cancers in Women (2011)*
- *NIH Loan Repayment Program, National Institute on Minority Health and Health Disparities (2017-2019)*

Research Interests

Dr. Dallal's research focuses on the evaluation of lifestyle and hormonal factors as they relate to estrogen-mediated carcinogenesis of the breast, endometrium and ovary.

Grants

- ACS funded IRG, 7/22/19-7/21/20 - Obesity phenotypes, metabolic health, and breast cancer racial disparities

Publications

- Sampson J, Falk R, Schairer C, Moore SC, Fuhrman B, **Dallal CM**, Brinton LA, Gail MH, Ziegler RG, Hoover RN, Gierach G. Association between estrogen metabolism and breast cancer risk in four cohorts of postmenopausal women. *Cancer Res* 2017; 77(4): 918-925.
- **Dallal CM**, Brinton LA, Matthews CE, Pfeiffer R, Hartman T, Lissowska J, Falk R, Garcia Closas M, Xu X, Veenstra TD, Gierach GL. Is accelerometer-measured physical activity and sedentary behavior associated with urinary estrogens and estrogen metabolites among postmenopausal women? *Med Sci Sports Exerc* 2016; 48(3): 439-48. E-pub Oct 12, 2015.
- **Dallal CM**, Tice JA, Buist DSM, Bauer DC, Lacey JV, Cauley JA, Hue TF, LaCroix A, Falk RT, Pfeiffer R, Fuhrman B, Veenstra TD, Xu X, Brinton LA. Estrogen metabolism and postmenopausal breast cancer risk in the B~FIT cohort. *Carcinogenesis* 2014; 35(2): 346-55. PMID: PMC3908751
- Luhn P, **Dallal CM**, Weiss J, Black A, Huang W, Lacey JV, Hayes RB, Stanczyk FZ, Wentzensen N, Brinton LA. Circulating adipokines and endometrial cancer risk in the Prostate, Lung, Colorectal and Ovarian (PLCO) cancer screening trial. *Cancer Epidemiol Biomarkers Prev* 2013; 22(7): 1304-12. PMID: PMC3819202
- **Dallal CM**, Brinton LA, Bauer DC, Buist DSM, Cauley JA, Hue TF, LaCroix A, Tice JA, Chia VM, Falk RT, Pfeiffer R, Pollak M, Veenstra TD, Xu X, Lacey JV. Obesity-related hormones and endometrial cancer among postmenopausal women: a nested case-control study within the B~FIT Cohort. *Endocr Relat Cancer* 2013; 20(1): 151-160.
- **Dallal CM**, Brinton LA, Matthews CE, Lissowska J, Peplonska B, Hartman TJ, Gierach GL. Accelerometer-based measures of active and sedentary behavior in relation to breast cancer risk. *Breast Cancer Res Treat* 2012; 134(3): 1279-90. PMID: PMC3534981



Carlo DiClemente, PhD

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Research Interests

Dr. DiClemente's research includes assessing the process of smoking initiation and cessation, SBIRT training in medical residency programs, motivation and stages of change for a variety of health behaviors and understanding mechanism of change in alcohol and substance abuse.

Publications

- **DiClemente CC.** Reaching out to smokers: Technology, timing, and tailoring. *Translational Behavioral Medicine*. 2020 Apr;10(2):478-81.
- Graydon MM, Corno CM, Schacht RL, Knoblach DJ, Wiprovnick AE, Thrash ST, Petersen AA, **DiClemente CC.** A statewide initiative to train behavioral health providers in smoking cessation. *Translational Behavioral Medicine*. 2018 Dec;8(6):855-66.
- Von Sternberg K, **DiClemente CC,** Velasquez MM. Profiles of behavior change constructs for reducing alcohol use in women at risk of an alcohol-exposed pregnancy. *Psychology of Addictive Behaviors*. 2018 Nov;32(7):749.
- **DiClemente CC.** Addiction and change: How addictions develop and addicted people recover. Guilford Publications; 2018 Jan 18.
- **DiClemente CC.** Failure to change or failure to sustain: pregnancy smoking and postpartum abstinence.
- DeMartini KS, Devine EG, **DiClemente CC,** Martin DJ, Ray LA, O'Malley SS. Predictors of pretreatment commitment to abstinence: results from the COMBINE study. *Journal of Studies on Alcohol and Drugs*. 2014 May;75(3):438-46.
- **DiClemente CC.** Paths through addiction and recovery: The impact of spirituality and religion. *Substance use & misuse*. 2013 Oct 15;48(12):1260-1.
- Connors GJ, **DiClemente CC,** Velasquez MM, Donovan DM. Substance abuse treatment and the stages of change: Selecting and planning interventions. Guilford Press; 2012.



Joanne F. Dorgan, PhD, MPH

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Research Interests

Epidemiology, breast cancer, hormones, diet, lifecourse, etiology, survivorship

Dr. Dorgan is an epidemiologist with particular expertise in molecular and nutritional epidemiology. Her research focuses primarily on identifying hormonal determinants of cancer, particularly breast cancer, and hormonal mechanisms by which environmental and behavioral exposures, as well as genetics, affect cancer risk.

Dr. Dorgan also conducts research on early life exposures and adult chronic disease risk. Early life exposures have long been hypothesized to influence breast cancer risk and her ongoing research in the Dietary Intervention Study in Children (DISC), in which childhood diet, adiposity and hormones were found to influence later breast density, supports this premise.

Grants

- NCI funded R01, 4/1/18-3/31/21 - EARLY LIFE EXPOSURES AND BREAST DENSITY IN YOUNG WOMEN

Publications

- Jung S, Goloubeva O, Klifa C, LeBlanc ES, Snetselaar LG, Van Horn L, **Dorgan JF**. Dietary fat intake during adolescence and breast density among young women. *Cancer Epidemiol Biomarkers Prev* 2016; 25:918-26.
Bertrand KA, Baer HJ, Orav EJ, Klifa C, Kumar A, Hylton NM, LeBlanc ES, Snetselaar LG, Van Horn L, **Dorgan JF**. Early life body fatness, serum antimullerian hormone and breast density in young adult women: a prospective analysis. *Cancer Epidemiol Biomarkers Prev* 2016; 25:1151-7.
- Sampson JN, Falk RT, Schairer C, Moore SC, Fuhrman BJ, Dallal CM, Bauer DC, **Dorgan JF**, Shu XO, Zheng W, Brinton LA, Gail MH, Ziegler RG, Xu X, Hoover R, Gierach GL. Association of estrogen metabolism with breast cancer risk in different cohorts of postmenopausal women. *Cancer Res.* 2017; 77:918-25.
- Fortner R, Schock H, Jung S, Allen N, Arslan A, Brinton L, Egleston B, Falk R, Gunter M, Helzlsouer K, Idahl A, Johnson T, Kaaks R, Krogh V, Lundin E, Merritt M, Navarro C, Onland-Moret NC, Palli D, Shu XO, Sluss P, Staats P, Trichopolou A, Vainio EW, Zeleniuch-Jacquotte A, Zheng W, **Dorgan J**. Anti-Mullerian hormone and endometrial cancer: a multi-cohort study. *Br J Cancer* 2017; 117:1412-18.



Susan Dorsey, PhD

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Honors and Awards

- *Sigma Theta Tau International Researcher Hall of Fame, Sigma Theta Tau International (2015)*
- *University of Maryland School of Nursing Colleague Award, UMMC (2017)*

Research Interests

Dr. Dorsey's research focuses on neurotrophin biology, genomics, transcriptomics, and chronic pain.

Grants

- NIH funded R01, 3/21/12-6/30/22 – Spinal Mechanisms Underlying SCI-Induced Pain: Implications for Targeted Therapy
- NIH funded R01, 8/9/16-5/31/21 – Omics Associated with Self-management Interventions for Symptoms (OASIS) Center

Publications

- **Dorsey, S. G.**, Griffioen, M. A., Renn, C. L., Cashion, A. K., Colloca, L., Jackson-Cook, C. K., ... & Saligan, L. (2019). Working Together to Advance Symptom Science in the Precision Era. *Nursing research*, 68(2), 86-90.
- Yang, G. S., Kumar, S., **Dorsey, S. G.**, Starkweather, A. R., Kelly, D. L., & Lyon, D. E. (2019). Systematic review of genetic polymorphisms associated with psychoneurological symptoms in breast cancer survivors. *Supportive Care in Cancer*, 27(2), 351-371.
- Starkweather, A. R., Colloca, L., **Dorsey, S. G.**, Griffioen, M., Lyon, D., & Renn, C. (2019). Strengthening Inter-and Intraprofessional Collaborations to Advance Biobehavioral Symptom Science. *Journal of Nursing Scholarship*, 51(1), 9-16.
- **Dorsey, S. G.**, Kleckner, I. R., Barton, D., Mustian, K., O'Mara, A., St Germain, D., & Janelins, M. C. (2019). NCI Clinical Trials Planning Meeting for prevention and treatment of chemotherapy-induced peripheral neuropathy. *J Natl Cancer Inst*, 10.
- Colloca, L., Wang, Y., Martinez, P. E., Chang, Y. P. C., Ryan, K. A., Hodgkinson, C., ... & **Dorsey, S. G.** (2019). OPRM1 rs1799971, COMT rs4680, and FAAH rs324420 genes interact with placebo procedures to induce hypoalgesia. *Pain*, 160(8), 1824-1834.
- **Dorsey, S. G.**, & Pickler, R. H. (2019). Precision Science in Nursing Research.
- Wu, J., Renn, C. L., Faden, A. I., & **Dorsey, S. G.** (2013). TrkB. T1 contributes to neuropathic pain after spinal cord injury through regulation of cell cycle pathways. *Journal of Neuroscience*, 33(30), 12447-12463.
- **Dorsey, S. G.**, Renn, C. L., Carim-Todd, L., Barrick, C. A., Bambrick, L., Krueger, B. K., ... & Tessarollo, L. (2006). In vivo restoration of physiological levels of truncated TrkB. T1 receptor rescues neuronal cell death in a trisomic mouse model. *Neuron*, 51(1), 21-28.



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Honors and Awards

- *George F. Kramer Practitioner of the Year Award (2014)*
- *Scholar, Inaugural ADVANCE Program for Inclusion Excellence (2013)*
- *Attendee, Robert Wood Johnson Foundation, New Connections Symposium (2012)*

Research Interests

Dr. Fryer's collateral research endeavors include: African American men's health; behavioral intervention research; and the respectful, recruitment and retention of underrepresented communities in research.

Publications

- Sterling, KL, **Fryer, CS**, Pagano, I, Fagan, P. (2017). Flavored Cigar Misconceptions and Uncertainty: Identifying At-Risk Smokers, *Tobacco Regulatory Science*, 3(2 Suppl 1): S17-S30.
- Trapl, ES, O'Rourke-Suchoff, D, Yoder, LD, Cofie, L, Frank, JL, **Fryer, CS**. (2017). Youth Acquisition and Situational Use of Cigars, Cigarillos, and Little Cigars: A Cross-Sectional Study. *American Journal of Preventive Medicine*, 52(1): e9-e16.
- Sterling, KL, **Fryer, CS**, Pagano, I, Jones, D, Fagan, P. (2016). The Association between Menthol-Flavored Cigarette Smoking and Flavored Little Cigar and Cigarillo Use among African-American, Hispanic, and White Young Adult Smokers, *Tobacco Control*, 25 (Suppl 2): ii21-ii31.
- Sterling, KL, **Fryer, CS**, Pagano, I, Fagan, P. (2016). Little Cigars and Cigarillos (LCCs) Use among Young Adult Cigarette Smokers in the U.S.: Understanding Risk of Concomitant Use Subtypes, *Nicotine and Tobacco Research*, 18(12): 2234-2242.
- **Fryer, CS**, Passmore, SR, Maietta, R, Petruzzelli, JM, Casper, EC, *Brown, NA, Butler, JB, Garza, MA, Thomas, SB, Quinn, SC. (2016). The Symbolic Value and Limitations of Racial Concordance in the Recruitment of Minority Populations in Research. *Qualitative Health Research*, 26(6), 830-841.
- Passmore, SR, **Fryer, CS**, Butler, J, Garza, MA, Thomas, SB, Quinn, SC. (2016). Building a "Fund of Good Will": Reframing Research Engagement. *Journal of Health Care for the Poor and Underserved*, 27(2), 722-740.
- Sterling, KL, **Fryer, CS**, and Fagan, P. (2016). "The Most Natural Tobacco Used": A Qualitative Investigation of Young Adult Smokers' Risk Perceptions of Flavored Little Cigars and Cigarillos (LCCs). *Nicotine and Tobacco Research*, 18(5), 827-833.
- Sterling, KL, **Fryer, CS**, Nix, M, and Fagan, P. (2015). Appeal and Impact of Characterizing Flavors on Young Adult Small Cigar Use. *Tobacco Regulatory Science*, 1(1), 42-53.
- Fagan, P, Pohkrel, P, Herzog, T, Pagano, I, Vallone, D, Trinidad, D, Sakuma, K, Sterling, K, **Fryer, CS**, Moolchan, E. (2015). Comparisons of Three Nicotine Dependence Scales among a Multiethnic Sample of Young Adult Menthol and Non-Menthol Smokers. *Drug and Alcohol Dependence*, 149, 203-211.



Patti Elaine Gravitt, PhD, MS

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Research Interests

HPV-associated cancers, cervical cancer prevention, Microenvironmental role in HPV persistence and neoplastic progression, HPV latency and risk in peri- and post-menopausal women, Evaluation of biomarkers of cervical precancer for more effective cervical cancer screening

Grants

- NCI funded R01, 8/10/16-7/31/21 – TRANSLATING MOLECULAR DIAGNOSTICS FOR CERVICAL CANCER PREVENTION INTO PRACTICE

Publications

- Mark K, Frost A, Hussey H, Lopez-Acevedo M, Burke AE, Edwardson J, Solaru O, **Gravitt P**. Rates of regression of cervical dysplasia between initial biopsy and excisional procedure in routine clinical practice. *Arch Gynecol Obstet*. 2019 Mar;299(3):841-846. doi: 10.1007/s00404-018-5026-8. Epub 2019 Jan 4. PubMed PMID: 30607589.
- Hammer A, de Koning MN, Blaakaer J, Steiniche T, Doorbar J, Griffin H, Mejlgaard E, Svanholm H, Quint WG, **Gravitt PE**. Whole tissue cervical mapping of HPV infection: Molecular evidence for focal latent HPV infection in humans. *Papillomavirus Res*. 2019 Jun;7:82-87. doi: 10.1016/j.pvr.2019.02.004. Epub 2019 Feb 14. PubMed PMID: 30772498; PubMed Central PMCID: PMC6389775.
- Holm JB, Humphrys MS, Robinson CK, Settles ML, Ott S, Fu L, Yang H, Gajer P, He X, McComb E, **Gravitt PE**, Ghanem KG, Brotman RM, Ravel J. Ultrahigh-Throughput Multiplexing and Sequencing of >500-Base-Pair Amplicon Regions on the Illumina HiSeq 2500 Platform. *mSystems*. 2019 Feb 19;4(1). pii: e00029-19. doi:10.1128/mSystems.00029-19. eCollection 2019 Jan-Feb. PubMed PMID: 30801027; PubMed Central PMCID: PMC6381223
- Hammer A, Landy R, Rositch AF, **Gravitt PE**. Limitations of simulation models for cervical cancer screening. *Lancet Oncol*. 2019 Feb;20(2):e68. doi: 10.1016/S1470-2045(19)30011-7. PubMed PMID: 30712801.
- Hammer A, Kahlert J, **Gravitt PE**, Rositch AF. Hysterectomy-corrected cervical cancer mortality rates in Denmark during 2002-2015: A registry-based cohort study. *Acta Obstet Gynecol Scand*. 2019 Aug;98(8):1063-1069. doi: 10.1111/aogs.13608. Epub 2019 Apr 10. PubMed PMID: 30868579.
- **Gravitt PE**, Landy R, Schiffman M. How confident can we be in the current guidelines for exiting cervical screening? *Prev Med*. 2018 Sep;114:188-192. doi:10.1016/j.ypmed.2018.07.005. Epub 2018 Jul 5. PubMed PMID: 29981791.



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Research Interests

Cognition, attention, nicotine, nicotinic, schizophrenia, dependence, fMRI.

My lab investigates the neural correlates of cognition with particular emphasis on attentional functions, their impairment in people with schizophrenia, and their pharmacological modulation. Of particular interest is the cognitive-enhancing potential of nicotinic compounds, which may possess therapeutic utility in the context of disorders such as schizophrenia and Alzheimer's disease. My research aims at pinpointing the neuroanatomical and pharmacological mechanisms responsible for these effects, finding ways to improve their effect size, and exploiting them to enhance the benefits of cognitive training interventions. We also study mechanisms of nicotine dependence in smokers, including smokers with a diagnosis of schizophrenia. Our work employs behavioral pharmacology, functional Magnetic Resonance Imaging, computerized cognitive task paradigms, and preclinical models of cognition.

Grants

- NIH funded R01 - 3/15/14-1/31/20 - MECHANISMS MEDIATING THE ATTENTION-ENHANCING EFFECTS OF NICOTINIC RECEPTOR AGENTS

Publications

- **Hahn B**, Stolerman IP (2005) Modulation of Nicotine-Induced Attentional Enhancement in Rats by Adrenoceptor Antagonists. *Psychopharmacology* 177: 438-447.
- **Hahn B**, Ross TJ, Yang Y, Kim I, Huestis MA, Stein EA (2007) Nicotine Enhances Visuospatial Attention by Deactivating Areas of the Resting Brain Default Network. *Journal of Neuroscience* 27: 3477-3489.
- **Hahn B**, Robinson BM, Kaiser ST, Harvey AN, Beck VM, Leonard CJ, Kappenman ES, Luck SJ, Gold JM (2010) Failure of Schizophrenia Patients to Overcome Salient Distractors During Working Memory Encoding. *Biological Psychiatry* 68: 603-9.
- **Hahn B**, Harvey AN, Concheiro-Guisan M, Huestis MA, Holcomb HH, Gold JM (2013) A Test of the Cognitive Self-Medication Hypothesis of Tobacco Smoking in Schizophrenia. *Biological Psychiatry* 74: 436-443.
- **Hahn B**, Harvey AN, Gold JM, Fischer BA, Keller WR, Ross TJ, Stein EA (2016) Hyperdeactivation of the Default Mode Network in People with Schizophrenia When Focusing Attention in Space. *Schizophrenia Bulletin* 42: 1158-66.



Kathleen Hoke, JD

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Research Interests

Hoke has worked in tobacco regulation, environmental health, food safety and injury prevention. She has conducted research and prepared materials specifically related to hydrofracturing, medical marijuana laws, and health agency access to school health records.

Publications

- Swinburne M, **Hoke K**. State Efforts to Create an Inclusive Marijuana Industry in the Shadow of the Unjust War on Drugs. *Journal of Business & Technology Law*. 2020;15(2):235.
- Chen JC, Green KM, Chen J, **Hoke K**, Borzekowski DL. Restricting the sale of flavored e-cigarettes in the US: an examination of local regulations. *Tobacco Regulatory Science*. 2018 Jul 1;4(4):32-40.
- Tilburg W, **Hoke K**, Sager M. FDA Regulation of Electronic Nicotine Delivery Systems and the Deeming Rule: What's Left for States. *J. Health Care L. & Pol'y*. 2017;20:27.
- Lavoie MC, Langenberg P, Villaveces A, Dischinger PC, Simoni-Wastila L, **Hoke K**, Smith GS. Effect of Maryland's 2011 alcohol sales tax increase on alcohol-positive driving. *American journal of preventive medicine*. 2017 Jul 1;53(1):17-24.
- Mattingly II TJ, Heil EL, **Hoke K**. Exploring the case for eminent domain of hepatitis C virus treatment patents. *Journal of Health Care for the Poor and Underserved*. 2017;28(2):621-5.
- Nesoff ED, Milam AJ, Bone LR, Stillman FA, Smart MJ, **Hoke K**, Furr- Holden CD. Tobacco policies and on-premise smoking in bars and clubs that cater to young African Americans following the Maryland Clean Indoor Air Act of 2007. *Journal of ethnicity in substance abuse*. 2017 Jul 3;16(3):328-43.
- Stillman FA, Bone LR, Milam AJ, Ma J, **Hoke K**. Out of view but in plain sight: the illegal sale of single cigarettes. *Journal of Urban Health*. 2014 Apr 1;91(2):355-65.
- Milam AJ, Bone LR, Byron MJ, **Hoke K**, Williams CD, Furr- Holden CD, Stillman FA. Cigarillo use among high-risk urban young adults. *Journal of health care for the poor and underserved*. 2013 Nov;24(4):1657.



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Honors and Awards

- **2015 ASPO travel award**, *American Society of Preventive Oncology (ASCO) 39th Annual Conference, Birmingham, Alabama, USA*
- **2010 Campbell's Scholar**, *American Institute for Cancer Research (AICR) Annual Research Conference on Food, Nutrition, Physical Activity and Cancer, Washington, DC, USA*
- **2008-2012 Samsung Scholarship**, *Samsung Foundation*

Research Interests

The primary focus of my research is examining dietary and lifestyle risk factors for cancer risk and prognosis and their underlying mechanisms using epidemiologic methods. I have conducted several epidemiologic research projects on diet and breast and colorectal cancers integrating nutrition, cancer epidemiology, pathology, and molecular biology. For example, using primary data from over 1 million women from 20 cohorts from North America, Europe, Australia, and Asia in the Pooling Project of Prospective Studies of Diet and Cancer (DCPP), I examined associations between several dietary factors, including fruits, vegetables, folate, and alcohol consumption, and the risk of breast cancer overall and of its subtypes as defined by hormone receptor status. I found that high vegetable intake and low alcohol consumption is significantly associated with a lower risk of estrogen receptor negative breast cancer, an aggressive form of breast cancer that is less responsive to hormonal treatment. I also examined the association of carotenoids with colorectal adenomas; the association of vitamin D with colorectal cancer subtypes as defined by the vitamin D receptor expression level and by the mutation status of *KRAS*, *BRAF*, and *PIK3CA*; and the timing of vitamin B2 intake with colorectal cancer.

Publications

- **Jung S**, Allen N, Arslan AA, Baglietto L, Brinton LA, Dorgan JF et al. "Demographic, lifestyle, and other factors in relation to antimullerian hormone levels in mostly late premenopausal women. Fertility and Sterility" *Fertil Steril.* (2017 Apr;107(4):1012-1022)
- **Jung S**, Goloubeva O, Klifa C, LeBlanc ES, Snetselaar LG, Van Horn L, Dorgan JF "Dietary fat intake during adolescence and breast density among young women" (*Cancer Epidemiol Biomarkers Prev*, 2016; Jun;25(6):918-26)
- **Jung S**, Egleston BL, D Walt Chandler, Van Horn L, Hylton NM, Klifa CC, Lasser NL, LeBlanc ES, Paris K, Shepherd JA, Snetselaar LG, Stanczyk FZ, Stevens VJ, Dorgan JF. "Adolescent endogenous sex hormones and breast density in early adulthood" (*Breast Cancer Res*; 2015 Jun 4;17:77)
- **Jung S**, Wang M, Anderson K, Baglietto L, Bergkvist L, et al. "Alcohol consumption and breast cancer risk by estrogen receptor status: in a pooled analysis of 20 studies" (*Int J Epidemiol*; 2015 Aug 28 Epub)
- **Jung S**, Spiegelman D, Baglietto L, Bernstein L, et al. "Fruit and vegetable intake and risk of breast cancer by hormone receptor status" (*J Natl Cancer Inst*; 2013 Feb 6;105(3):219-36)



Farin Kamangar, PhD

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Research Interests

Epidemiology of chronic diseases, with an emphasis on epidemiology of esophageal and gastric cancers. Other areas of interest are carcinogenicity of opium, polycyclic aromatic hydrocarbons, and hot beverages, as well as effects of opium use on cardiovascular diseases and other chronic conditions.

Grants

- NIH funded RL - 9/26/14-6/30/24 - ASCEND Training Model to Increase Diversity in the Biomedical Research Workforce

Publications

- **Kamangar F**, Shakeri R, Malekzadeh R, Islami F. Opium use: A risk factor for multiple cancers? *Lancet Oncology* 2014, 15: e69 - e77.
- Karimi P, Islami F, Anandasabapathy S, Freedman ND, **Kamangar F**. Gastric cancer: descriptive epidemiology, risk factors, screening, and prevention. *Cancer Epidemiology and Prevention Biomarkers*. 2014, 23(5):700-713.
- Shakeri R, Malekzadeh R, Etemadi A, Nasrollahzadeh D, Aghcheli K, Sotoudeh M, Islami F, Pourshams A, Pawlita M, Boffetta P, Dawsey SM, Abnet CC, **Kamangar F**. Opium; an emerging risk factor for gastric adenocarcinoma. *International Journal of Cancer* 2013, 133: 455 - 461.
- Khademi H, Malekzadeh R, Pourshams A, Jafari E, Salahi R, Semnani S, Abaie B, Islami F, Nasser-Moghadam S, Byrnes G, Abnet CC, Dawsey SM, Ponder BA, Day NE, Pharoah PD, Boffetta P, Brennan P, **Kamangar F**. Opium use and mortality in the Golestan Cohort Study: A prospective study of 50,000 adults. *BMJ* 2012, 344: e2502.
- **Kamangar F**, Chow WH, Abnet CC, Dawsey SM. Environmental causes of esophageal cancer. *Gastroenterology Clinics of North America*. 2009, 38(1):27-57.
- Islami F, Boffetta P, Ren JS, Pedoeim L, Khatib D, **Kamangar F**. High-temperature beverages and foods and esophageal cancer risk—A systematic review. *International journal of cancer*. 2009, 125(3):491-524.
- **Kamangar F**, Schantz MM, Abnet CC, Fagundes RB, Dawsey SM. High levels of carcinogenic polycyclic aromatic hydrocarbons in maté drinks. *Cancer Epidemiology, Biomarkers, and Prevention*. 2008, 17: 1262 - 1268.
- DeOliveira ML, Cunningham SC, Cameron JL, **Kamangar F**, Winter JM, Lillemoe KD, Choti MA, Yeo CJ, Schulick RD. Cholangiocarcinoma: thirty-one-year experience with 564 patients at a single institution. *Annals of surgery*. 2007, 245(5):755.



Cheryl Knott, PhD

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Honors and Awards

- *Best of the Best plenary session, International Cancer Education Conference (2016)*
- *Abstract Citation Award, Society of Behavioral Medicine (2016)*
- *Research and Development Award, University of Maryland, School of Public Health (2013)*
- *Fellow, American Academy of Health Behavior (2012)*

Research Interests

Dr. Knott's health disparities research involves community-based health communication studies, and the role of culture in health cognitions and behaviors.

Grants

- ACS funded RSG, 7/1/16-6/30/21 - INTEGRATION OF CANCER HEALTH ACTIVITIES INTO AFRICAN AMERICAN CHURCHES

Publications

- Santos, S.L.Z., Tagai, E.K., Wang, M.Q., Scheirer, M.A., Slade, J.L., & **Holt, C.L.** (2014). Feasibility of a web-based training system for peer community health advisors in cancer early detection among African Americans. *American Journal of Public Health*.
- Caplan, L., Sawyer, P., **Holt, C.L.**, & Brown, C. (2014). Religiosity after a diagnosis of cancer among older adults. *Journal of Religion, Spirituality & Aging*.
- Williams, B.R., Wang, M.Q., Schulz, E., Clark, E.M., & **Holt, C.L.** (In 2015). Social integration and continuous health insurance among African American adults. *Journal of Women and Aging*.
- Dubay, D., Ivankova, N., Herby, I., Wynn, T.A., Kohler, C., Berry, B., Foushee, H., Carson, A., Redden, D.T., **Holt, C.L.**, Siminoff, L., Fouad, M., & Martin, African American organ donor registration: A mixed methods design using the Theory of Planned Behavior M.Y. (2014). *Progress in Transplantation*.
- Roth, D.L., Usher, T., Clark, E.M., & **Holt, C.L.** (2017). Religious involvement and health over time: Predictive effects in a national sample of African Americans. *Journal for the Scientific Study of Religion*.
- Santos, S.L.Z., Tagai, E.K., Scheirer, M.A., Bowie, J., Haider, M., Slade, J.,...**Holt, C.L.** (2016). Adoption, reach, and implementation of a cancer education intervention in African American churches. Manuscript submitted for publication.
- Scheirer, M.A., Santos, S.L.Z., Tagai, E.K., Bowie, J., Slade, J., Carter, R., & **Holt, C.L.** (2016). Dimensions of sustainability for a health communication intervention in African American churches: A multi-methods study. Manuscript submitted for publication.
- **Holt, C. L.**, Tagai, E. K., Santos, S. L. Z., Scheirer, M. A., Bowie, J., Haider, M.,...Wang, M. Q. (2016). Is online comparable to in-person training for community health advisors conducting a church-based intervention? Manuscript submitted for publication



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Research Interests

Developing statistical methods for efficiently designing and analyzing complex samples in social and bio-medical settings. Particularly in the area of statistical genetics, involving statistical inferences for genetic association using case-control, cohort and cross-sectional studies and surveys with complex survey designs.

Publications

- **Li, Y.**, Yu, M., & Zhang, J. (2018). Statistical Inference on Health Disparity Indices for Complex Surveys. *American journal of epidemiology*, 187(11), 2460-2469.
- **Li, Y.**, Xiao, T., Liao, D., & Lee, M. L. T. (2018). Using threshold regression to analyze survival data from complex surveys: With application to mortality linked NHANES III Phase II genetic data. *Statistics in medicine*, 37(7), 1162-1177.
- Wang, L., Graubard, B. I., & **Li, Y.** (2016). A composite likelihood approach in testing for Hardy Weinberg Equilibrium using family-based genetic survey data. *Statistics in medicine*, 35(27), 5040-5050.
- **Li, Y.**, Graubard, B. I., Huang, P., & Gastwirth, J. L. (2015). Extension of the Peters–Belson method to estimate health disparities among multiple groups using logistic regression with survey data. *Statistics in medicine*, 34(4), 595-612.
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- Hsing, A. W., Yeboah, E., Biritwum, R., Tettey, Y., De Marzo, A. M., Adjei, A., ... & Chu, L. W. (2014). High prevalence of screen detected prostate cancer in West Africans: implications for racial disparity of prostate cancer. *The Journal of urology*, 192(3), 730-736.
- She, D., Zhang, H., **Li, Y.**, Graubard, B. I., & Li, Z. (2014). Family based association study with complex survey data. *Statistics and Its Interface*, 7(2), 167-176.
- Schairer, C., **Li, Y.**, Frawley, P., Graubard, B. I., Wellman, R. D., Buist, D. S., ... & Miglioretti, D. L. (2013). Risk factors for inflammatory breast cancer and other invasive breast cancers. *Journal of the National Cancer Institute*, 105(18), 1373-1384.
- **Li, Y.**, Gail, M. H., Preston, D. L., Graubard, B. I., & Lubin, J. H. (2012). Piecewise exponential survival times and analysis of case-cohort data. *Statistics in medicine*, 31(13), 1361-1368.



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Honors and Awards

- 2014 - *Oncology Section Research Award: Established by the Oncology Section, APTA, to recognize members whose work has resulted in enduring and outstanding research pertaining to Oncologic physical therapy.*

Research Interests

Pediatric physical therapy, Pediatric oncology, Cancer survivorship

Victoria "Tori" Marchese, PT, PhD is an Associate Professor at the University of Maryland School of Medicine, Department of Physical Therapy & Rehabilitation Science. She has over 20 years of clinical experience in pediatric physical therapy. Dr. Marchese has authored numerous book chapters and peer reviewed articles in the area of assessment and physical therapy intervention for children with acute lymphoblastic leukemia and lower-extremity sarcoma. She has presented nationally and obtained a grant to study the impact of student involvement in Interprofessional Education. Dr. Marchese received her bachelor's degree in physical therapy from the University of Tennessee and her PhD from MCP Hahnemann University.

Publications

- **Marchese VG**, Chiarello LA, Lange BJ. Effects of physical therapy intervention for children with acute lymphoblastic leukemia. *Pediatric Blood Cancer*. 2004;42:127-133.
- **Marchese VG**, Hinds PS, Rai SN, Cremer LK, Neel MD, Rao BN, Spunt SL, Daw ND. A New Tool to Assess Functional Mobility in Survivors of Lower-Extremity Sarcoma, St. Jude Children's Research Hospital Scientific Report, 2005.
- **Marchese VG**, Morris GS, Gilchrist L, Ness KK, Wampler M, VanHoose L, Galantino ML Screening for Chemotherapy Late Effects, *Topics in Geriatric Rehabilitation*, 2011; 27:234-243.
- **Marchese VG**, Oriel KN, Fry JA, Kovacs JL, Weaver RL, Reilly MM, and Ginsberg JP, Development of a Normative Sample for the Functional Mobility Assessment, *Pediatric Physical Therapy*, 2012;24:224-30.
- **Marchese VG**, McEvoy CS, Brown H, Greiner R, Demski M, Ginsberg JP, Exploring Factors that Influence Childhood Cancer Survivors' Choice of Occupation and Choice to Attend College. *Rehabilitation Oncology* 2014;32:23-28.
Rook MK, McEvoy CS, Greiner RG, Brown H, **Marchese VG**, Exploring the Feasibility of Performing Objective Screening Tools on Survivors of Pediatric Cancers as Part of a Long-Term Survivorship Clinic. *Rehabilitation Oncology* 2014;32:29-37.



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Research Interests

Occupational medicine, clinical toxicology, healthcare hazards, global workers' health, exposure assessment

I am a member of the Population Science Program within the University of Maryland Marlene and Stewart Greenebaum Cancer Center Program in Oncology. Population Science researchers collaborate with investigators throughout the University of Maryland System to identify determinants of cancer etiology and survivorship, characterize cancer-related health behaviors, and translate basic discoveries into behavioral cancer prevention and control interventions. My research interests are in occupational and environmental determinants of cancer, second malignancy development in chemotherapy treated patients, the cancer risk of oncology workers and chemotherapy safety.

Grants

- VA, 10/1/18-9/30/19 - DEPLETED URANIUM PROGRAM
- DOD, 9/30/18-9/29/19 - ASSESSING THE HEALTH EFFECTS OF BLAST INJURIES AND EMBEDDED METAL FRAGMENTS

Publications

- **McDiarmid, MA**, Oliver, MS, Roth, TS, Rogers B, Escalante, C. Chromosome 5 and 7 Abnormalities in Oncology Personnel Handling Anticancer Drugs. *JOEM*. 2010;52(10):1028-1034.
- **McDiarmid, MA**, Albertini, RJ, Tucker, ID, Vacek, PM, Carter, EW, Bakhmutsky, MV, Oliver, MS, Engelhardt, SM, Squibb, KS. Measures of genotoxicity in Gulf war I veterans exposed to depleted uranium. *Environ Molecular Mut*, 2011;52(7):569-581.
- **McDiarmid, MA**, Gaitens, JM, Hines, S, Breyer, R, Engelhardt, SM, Oliver, M, Gucer, P, Kane, R, Cernich, A, Kaup, B, Hoover, D, Gaspari, AA, Liu, J, Harberts, E, Brown, L, Centeno, JA, Gray, PJ, Hanna, X, Squibb, KS. The gulf war depleted uranium cohort at 20: Bioassay results and novel approaches to fragment surveillance. *Health Physics* 2013 140(4):347-361.
- **McDiarmid, MA**. Hazards of the Health Care Sector: Looking Beyond Infectious Disease. *Annals of Global Health*, 2014;80:315-319.
- **McDiarmid, MA**, Rogers, B., Oliver, MS. Chromosomal effects of non-alkylating drug exposure in oncology personnel. *Environ. Mol. Mutagen* 2014 21;55(4):369-74



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Honors and Awards

- *Research Faculty Teacher of the Year Award*. UMB SOM, 2012.
- *Chairman's Special Achievement Award*, Dept of Medicine, UMB SOM, 2016.

Research Interests

Genetic epidemiology, diabetes, cardiovascular disease, Amish, genetics.

Dr. Mitchell is a genetic epidemiologist who has studied the genetics of complex diseases for many years. He has directed and played leading roles in numerous studies of cardiometabolic and bone health, whose goals have been to uncover the genetic architecture of these traits, identify genetic variants affecting disease risk, and to determine how the effects of these variants are modified by lifestyle risk factors. His current research focuses on type 2 diabetes mellitus, cardiovascular disease, ischemic stroke, osteoporosis, osteoarthritis, and obesity. Dr. Mitchell has been a core investigator in the Amish Complex Disease Genetics program for the past 15 years, where he has led or participated in numerous discoveries of rare large effect variants that are enriched in this founder population. Current efforts in this study involve integration of whole genome and exome sequencing and other -omics data. He has published over 380 papers from his research.

Grants

- NIH funded R01, 6/1/17-2/28/22 - Genetics of ischemic stroke in the SiGN Consortium
- NIH funded P30, 9/15/05-8/31/20 - Mid-Atlantic Nutrition Obesity Research Center

Publications

- **Mitchell BD**, Lee W-J, Tolea MI, Shields K, Ashktorab Z, Magder LS, Ryan KA, Pollin TI, McArdle PF, Shuldiner AR, Schäffer AA. Living the good life? Mortality patterns and hospital utilization in the Lancaster County Amish. *PLoS ONE* 7(12):e51560, 2012. PMC3526600.
- Shen H, Damcott CM, Rampersaud E, Pollin TI, Horenstein R, McArdle PF, Peyser PA, O'Connell JR, Bielak LF, Post W, Chang Y-P C, Ryan KA, Miller M, Shelton J, Shuldiner AR, **Mitchell BD**. Familial defective apolipoprotein B-100 and increased low-density lipoprotein cholesterol and coronary artery calcification in the Old Order Amish. *Arch Intern Med* 170:1850-1855, 2010. PMC3587042.
- Rampersaud E, **Mitchell BD**, Pollin TI, Fu M, Shen H, O'Connell JR, Ducharme JL, Hines S, Sack P, Naglieri R, Shuldiner AR, Snitker S. Physical activity and the association of common *FTO* gene variants with body mass index and obesity. *Arch Intern Med* 168(16):1791-1797, 2008. PMC3635949.



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Research Interests

Dr. Nahm's work has centered around the use of eHealth, telehealth, and patient portal interventions to promote and manage the health of adults age 50 and older; patient-centered digital health interventions for cancer survivors; web-based research and usability testing; and hospital information systems evaluation and implementation

Grants

- NSP II (Maryland Higher Education Commission) funded, 2020-2025 - Care Coordination Educational-to-Practice Scale-Up Implementation
- UMMC/UMSON funded, 2019-2020 - The Impact of a Digital Cancer Survivorship Patient Engagement Toolkit (CaS-PET Silver) on Older Cancer Survivors' Health Outcomes: A Pilot Study
- Sigma Theta Tau, Pi Chapter, Maryland funded, 2017-2019 - Innovative Use of Health IT to Engage Cancer Survivors in their Care Management

Publications

- **Nahm, E.**, Miller, K., McQuaige, M., Corbitt, N., Jaidar, N., Rosenblatt, P., et al (2019, September). Testing the Impact of Cancer Survivorship Patient Engagement Toolkit (CaS-PET) on Selected Health Outcomes of Survivors Who Completed Treatments with Curative Intent. *Oncology Nursing Forum*, 46, 572-584.
- Son, H. & **Nahm, E.** (2019). Older Adults' Experience Using Patient Portals in Communities: Challenges and Opportunities.. *CIN: Computers, informatics, nursing*, 37 (1), 4-10. doi:10.1097/CIN.0000000000000476
- Son, H., **Nahm, E.**, Hertsenberg,, L., La, I., Yoon, J. & Rosenblatt, P. (2019, October (4th Quarter/Autumn)). Use of Health Information Technologies for Cancer Survivorship Care: A Comprehensive Review of the Literature.. *Journal of Nursing Informatics*, 4 (4), 6-18.
- **Nahm, E.**, Zhu, S., Bellantoni, M., Keldsen, L., Russomanno, V., Rietschel, M., et al (2018). The Effects of a Theory-Based Patient Portal e-Learning Program for Older Adults with Chronic Illnesses.. *Telemedicine Journal and e-Health*, Doi: 10.1089/tmj.2018.0184. [Epub ahead of print]. doi:10.1089/tmj.2018.0184
- **Nahm, E.**, Resnick, B. M., Brown, C., Zhu, S., Magaziner, J., Bellantoni, M., et al (2017). The Effects of an Online Theory-Based Bone Health Program for Older Adults. *J Appl Gerontol*, 36 (9), 1117-1144.



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Honors and Awards

- *Mayhew Derryberry Award, American Public Health Association, for outstanding contributions to health education research and theory (2018)*
- *Research and Scholarship (RASA) Award, University of Maryland (2015-2016)*
- Emerald Literati Network Award for Excellence – Highly Recommended Paper published in *Health Education* (2015)

Research Interests

Health and risk communication, focusing on a) the design of persuasive messages to influence health risk perceptions and behaviors and b) the role of traditional and emerging media (e.g., social media, mobile media, virtual reality) in promoting (and hindering) public health.

Grants

- NCI funded R01, 2/13/18-1/21/23 - Framing HPV Vaccination Messages for African American Parents

Publications

- Ma, Z., & Nan, X. (in press). Positive facts, negative stories: Message framing as a moderator of narrative persuasion in anti-smoking communication. *Health Communication*.
- Futerfas, M., & Nan, X. (in press). Role of humor in the persuasiveness of entertainment narratives on unprotected sexual behavior. *Journal of Health Communication*.
- Iles, I., Nan, X., Ma, Z., Feldman, R., Butler, J., Wang, M., & Zhao, X. (in press). Self-affirmation and defensive processing of graphic cigarette warning labels among African Americans. *Health Education Journal*.
- Nan, X., Daily, K., #Richards, A., & Holt, C. (in press). Parental support for HPV vaccination mandates among African Americans: The impact of message framing and consideration of future consequences. *Health Communication*. [1.686]
- Ma, Z., & Nan, X. (2018). Friends don't let friends smoke: How storytelling and social distance influence nonsmokers' responses to anti-smoking messages. *Health Communication*, 33, 887-895. [1.686] – Featured in CDC's Health Communication Science Digest
- Kim, J., & Nan, X. (2018). The effects of consideration of future consequences on HPV vaccine-related attitudes and Intentions. *Journal of Public Relations*, 22, 1-21
- Nan, X., Futerfas, M., & Ma, Z. (2017). Role of narrative perspective and modality in the persuasiveness of public service advertisements promoting HPV vaccination. *Health Communication*, 32, 320-328.
- Nan, X. (2017). Influence of incidental discrete emotions on health risk perception and persuasion. *Health Communication*, 32, 721-729.
- Nan, X., & Zhao, X. (2016). The mediating role of perceived descriptive and injunctive norms in the effects of media messages on youth smoking. *Journal of Health Communication*, 21, 56-66.
- Nan, X., & Madden, K. (2015). Biased assimilation and need for closure: Examining the effects of mixed blogs on vaccine-related beliefs. *Journal of Health Communication*, 20, 462-471.



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Research Interests

Dr. Nowak's research goals are to understand the molecular pathogenesis of virally associated cancers particularly in the context of HIV infection. She is an infectious disease epidemiologist with nearly ten years of experience in laboratory sciences. Her interest in HIV began in the mid-90's and she has maintained a focus on HIV throughout her training as an epidemiologist. She is currently interested in the local immune environment and how that contributes to the persistence of high-risk human papillomavirus (HR-HPV). Antiretroviral therapy (ART) has not been associated with a decrease in HPV-associated cancers, suggesting an inability to clear HR-HPV locally with a cell mediated immune response independent of immune restoration in the periphery. To better understand what is happening locally, she is characterizing the composition of the anal microbiota among HIV-infected and HIV-uninfected Nigerian men who have sex with men (MSM) as a correlate of persistent HR-HPV. Her long term goal is to identify local immunologic pathways that may be enhanced to prevent anal cancer.

Grants

- NCI funded K07, 8/1/18-7/31/23 - Role of anal microbiota; local cytokines and HIV in persistence of high-risk human papillomavirus

Publications

- **Nowak RG**, Gravitt PE, Morrison CS, Gange SJ, Kwok C, Oliver AE, Howard R, Van Der Pol B, Salata RA, Padian NS, Chipato T, Munjoma M, Celentano DD. Increases in human papillomavirus (HPV) detection during early HIV infection among women in Zimbabwe. *J Infect Dis.* 2011 Apr; 203:1182-91.
- **Nowak RG**, Gravitt PE, He X, Ketende S, Blattner WA, Charurat ME, on behalf of the TRUST Study Group. Anal high-risk human papillomavirus infections among HIV-positive and HIV-negative men who have sex with men (MSM) in Nigeria. *Sex Transm Dis.* 2016 Apr; 43(4):243-248.
- **Nowak RG**, Bentzen SM, Ravel J, Crowell TA, Dauda W, Ma B, Liu H, Blattner WA, Baral SD, Charurat ME, on behalf of the TRUST/RV3678 Study Group. Rectal microbiota among HIV-uninfected, untreated HIV, and treated HIV-infected men who have sex with men (MSM) in Nigeria. *AIDS* 2017 Mar 27; 31(6):857-862.
- **Nowak RG**, Ambulos NP, Schumaker LM, Mathias TJ, White RA, Troyer J, Wells D, Charurat ME, Bentzen SM, Cullen KJ. Genotyping of high-risk anal human papillomavirus (HPV): Ion Torrent-Next Generation Sequencing vs. Linear Array. *Virology Journal* 2017; 14:112.



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Honors and Awards

- Awardee, *Geographical Management of Cancer Health Disparities Program, Region 1 North Travel Scholarship*, 2017
- Awardee, *More than Pink Hero, Komen Maryland*, 2016

Research Interests

Social Determinants of Breast Cancer Screening

My initial research in cancer control examined the social determinants that prevented low-income women in primary care settings from completing breast cancer screening. This research found that the barriers faced by low-income women who had an established relationship with primary care included structural-level barriers such as the cost of screening mammography and individual-level barriers such as the pain of the procedure. Additionally, this research showed that women identified factors such as social support and information on positive breast cancer outcomes were promoters of screening behaviors. This publication documents the importance of understanding the breadth of barriers to screening faced by low-income, African American women in primary care settings and the importance of engaging the community to develop strategies that address barriers to completion of screening mammography. I served as a co-investigator on this study.

Publications

- Singer LT, Linares TJ, **Ntiri S**, Henry R, Minnes S. Psychosocial profiles of older adolescent MDMA users. Drug and alcohol dependence. 2004; 74(3):245-52. PubMed [journal] PMID: 15194202
- Mishra SI, DeForge B, Barnet B, Ntiri S, Grant L. Social determinants of breast cancer screening in urban primary care practices: a community-engaged formative study. *Womens Health Issues*. 2012 Sep;22(5):e429-38. doi: 10.1016/j.whi.2012.06.004. PubMed PMID: 22841803
- **Ntiri SO**, Klyushnenkova EN, Bentzen SM. Outcomes of a Community-based Breast Cancer Screening Program in Baltimore City. *Journal of health care for the poor and underserved*. 2018; 29(3):898-913. PubMed [journal] PMID: 30122671
- An online, self-directed curriculum of core research concepts and skills Williams AA, **Ntiri SO**. MedEdPORTAL : the journal of teaching and learning resources. 2018 July 27; 14. My Bibliography [journal]



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Research Interests

Human Evolutionary Genetics, Computational Biology, Next-Generation Sequence Analysis, Genotype/Phenotype Architecture

My laboratory explores the effects of evolution and population structure on the genomic architecture of disease and other phenotypes. One of the biggest questions of modern genetics and evolution is to understand the complex connection between genes, environment, and phenotype. We want to understand the origin of phenotypic diversity. We believe this will require the integration of many data types, scientific disciplines, and a heavy reliance on evolutionary theory. As we move forward in developing theories and addressing this important problem it will be important to combine evolutionary genetics and systems biology. My lab has a track record of developing new algorithms and statistics to interdisciplinary biological problems as well as the use of large multifaceted data sets, particularly the output of next-generation sequencing. We are especially interested in the recent evolution of New World populations such as Hispanic Americans, African Americans, and the Old Order Amish.

Publications

- **O'Connor TD**, Fu W, Mychaleckyj JC, Logsdon B, et al. Rare variation facilitates inferences of fine-scale population structure in humans. *Mol Biol Evol.* 2015 Mar;32(3):653-60. PubMed PMID: 25415970.
- Fu W, **O'Connor TD**, Jun G, Kang HM, Abecasis G, et al. Analysis of 6,515 exomes reveals the recent origin of most human protein-coding variants. *Nature.* 2013 Jan 10;493(7431):216-20. PubMed PMID: 23201682
- Kessler MD, Yerges-Armstrong L, Taub MA, Shetty AC, Maloney K, Jeng LJB, Ruczinski I, Levin AM, Williams LK, Beaty TH, Mathias RA, Barnes KC, CAAPA Consortium, **O'Connor, TD**. Challenges and disparities in the application of personalized genomic medicine to populations with African Ancestry. *Nature Communications.* 2016
- Mathias RA, Taub TA, Gignoux CR, Fu W, Musharoff S, **O'Connor TD**, et al. A continuum of admixture in the Western Hemisphere revealed by the African Diaspora genome. *Nature Communications.* 2016



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Honors and Awards

- *Best New Investigator Podium Presentation, International Society for Pharmacoeconomics and Outcomes Research 9th Annual European Congress (2006)*
- *Best Podium Presentation, International Society for Pharmacoeconomics and Outcomes Research 14th Annual International Meeting (2009)*

Research Interests

Dr. Onukwugha's research interests are in cost-effectiveness analysis, health disparities, and medical decision-making by individuals. Dr. Onukwugha examines the costs and outcomes associated with transitional care, medication use, and hospital discharge disposition.

Publications

- Jayasekera, J., **Onukwugha, E.**, Cadham, C., Tom, S., Harrington, D., & Naslund, M. (2019). Epidemiological Determinants of Advanced Prostate Cancer in Elderly Men in the United States. *Clinical Medicine Insights: Oncology*, 13, 1179554919855116.
- Jayasekera, J., **Onukwugha, E.**, Cadham, C., Harrington, D., Tom, S., Pradel, F., & Naslund, M. (2019). An ecological approach to monitor geographic disparities in cancer outcomes. *PloS one*, 14(6), e0218712.
- Bozzi, L. M., Stuart, B., **Onukwugha, E.**, & Tom, S. E. (2018). Utilization of Screening Mammograms in the Medicare Population Before and After the Affordable Care Act Implementation. *Journal of aging and health*, 0898264318802047.
- **Onukwugha, E.**, Albarmawi, H., Sun, K., Mullins, C. D., Aly, A., & Hussain, A. (2018, July). Physician visits and the timing of skeletal-related events among men newly diagnosed with metastatic prostate cancer: A cohort analysis. In *Urologic Oncology: Seminars and Original Investigations* (Vol. 36, No. 7, pp. 340-e23). Elsevier.
- Hussain, A., Yong, C., Tkaczuk, K. H., Qian, Y., Arellano, J., Mullins, C. D., & **Onukwugha, E.** (2018). Prevalence and risk of skeletal complications and use of radiation therapy in elderly women diagnosed with metastatic breast cancer. *PloS one*, 13(3), e0193661.
- Khairnar, R., Mishra, M. V., & **Onukwugha, E.** (2018). Impact of United States Preventive Services Task Force Recommendations on Utilization of Prostate-specific Antigen Screening in Medicare Beneficiaries. *American journal of clinical oncology*, 41(11), 1069-1075.
- **Onukwugha, E.**, Kwok, Y., Ciezki, J. P., Yong, C., Plaisant, C., Reddy, C. A., ... & Hussain, A. (2017). Skeletal-related events and mortality among men diagnosed with advanced prostate cancer: The impact of alternative measures of radiation to the bone. *PloS one*, 12(4), e0175956.



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Research Interests

Community Health, Integrative Nutrition, Disease Prevention, Dietary Intake, Weight Management Strategies, Lifestyle Interventions

Grants

- NIH funded R25, 9/1/18-6/30/23 - UMB CURE Connections: an integral link in a Baltimore minority STEM education pipeline

Publications

- Wappel S, **Parker EA**, Serra M, Verceles AC. Assessing Nutrition Delivery in ICUs-A Difficult Problem to Digest. *Crit Care Med*. 2017 Sep;45(9):e985. doi: 10.1097/CCM.0000000000002499. PubMed PMID: 28816852; PubMed Central PMCID: PMC5573129.
- **Parker EA**, Feinberg TM, Wappel S, Verceles AC. Considerations When Using Predictive Equations to Estimate Energy Needs Among Older, Hospitalized Patients: A Narrative Review. *Curr Nutr Rep*. 2017 Jun;6(2):102-110. doi: 10.1007/s13668-017-0196-8. Epub 2017 Apr 11. PubMed PMID: 28868211; PubMed Central PMCID: PMC5575813.
- **Parker EA**, Roy T, D'Adamo CR, Wieland LS. Probiotics and gastrointestinal conditions: An overview of evidence from the Cochrane Collaboration. *Nutrition*. 2018 Jan;45:125-134.e11. doi: 10.1016/j.nut.2017.06.024. Epub 2017 Jul 6. Review. PubMed PMID: 28870406; PubMed Central PMCID: PMC5683921.
- Wroblewski MM, **Parker EA**, Hurley KM, Oberlander S, Merry BC, Black MM. Comparison of the HEI and HEI-2010 Diet Quality Measures in Association with Chronic Disease Risk among Low-Income, African American Urban Youth in Baltimore, Maryland. *J Am Coll Nutr*. 2018 Mar-Apr;37(3):201-208. doi: 10.1080/07315724.2017.1376297. Epub 2018 Jan 9. PubMed PMID: 29313747; PubMed Central PMCID: PMC6167057.
- Lane HG, Driessen R, Campbell K, Deitch R, Turner L, **Parker EA**, Hager ER. Development of the PEA-PODS (Perceptions of the Environment and Patterns of Diet at School) Survey for Students. *Prev Chronic Dis*. 2018 Jun 28;15:E88. doi: 10.5888/pcd15.170561. PubMed PMID: 29969093; PubMed Central PMCID: PMC6040598.



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Research Interests

Dr. Ravel's research program (www.ravel-lab.org) focuses on applying modern genomics technologies and ecological principles to characterize the role and dynamics of the microbial communities inhabiting the human body in health and disease and better define the interactions between the host, the microbes and the environment that drive these ecological systems. Specifically, he is interested in deciphering the role of the vaginal microbiome in women's health using clinical genomics and systems biology approaches, in order to develop improved strategy to manage gynecological and obstetrics conditions.

He is the co-Director of the NIH funded Collaborative Research Center on Sexually Transmitted Diseases entitled "Ecopathogenomics of Sexually Transmitted Diseases (EPSTI – epsti.org)" which aims at applying systems biology approaches to examine the triangular relationship between human genetic variation, sexually transmitted infections and co-infections caused by *Chlamydia trachomatis* and *Neisseria gonorrhoeae*, and the function of the vaginal microbiome. In addition, he is principal investigator or co-investigator on several NIH grants that aim at understanding the interactions between the vaginal microbiome, the environment and the host in the context of preterm initiation of labor.

Grants

- NIH funded R01, 05/13/16-02/28/21 – Elucidating causes of vaginal symptoms using a multi-omics approach
- NIH funded R21, 8/20/18-7/31/20 – The interaction between vaginal microbiota, immunogenetics and *C. trachomatis* susceptibility

Publications

- Bradford LL, **Ravel J**. 2016. The vaginal mycobiome: a poorly understood contributor to women's health and diseases. **Virulence**. 2016 Sep 22:0.
- Robinson CK, Brotman RM, **Ravel J**. Intricacies of assessing the human microbiome in epidemiologic studies. **Annals of Epidemiology**. 2016 26(5):311-21.
- Smith SB, **Ravel J**. 2016. The vaginal microbiota, host defense and reproductive physiology. **Journal of Physiology**. DOI: 10.1113/JP271694.
- Fan X, Alekseyenko AV, Wu J, Peters BA, Jacobs EJ, Gapstur SM, Purdue MP, Abnet CC, Stolzenberg-Solomon R, Miller G, **Ravel J**. Human oral microbiome and prospective risk for pancreatic cancer: a population-based nested case-control study. **Gut**. 2018 Jan 1;67(1):120-7.



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Honors and Awards

Cynthia L. Renn, PhD, MS '97, RN, associate professor, University of Maryland School of Nursing (UMSON), has been awarded a five-year, \$3,073, 811 grant from the National Institutes of Health to investigate chronic pain in trauma patients suffering from lower-leg fractures.

Research Interests

Preclinical and Clinical Studies of Chronic Pain

Grants

- NIH funded R01, 8/10/18-5/31/23 - PHYSIOLOGICAL, PSYCHOLOGICAL, AND GENOMIC FACTORS THAT PREDICT THE TRANSITION FROM ACUTE TO CHRONIC PAIN IN PATIENTS WITH TRAUMATIC LOWER EXTREMITY FRACTURE
- NIH funded P30, 8/9/16-5/31/21 - OMICS ASSOCIATED WITH SELF-MANAGEMENT INTERVENTIONS FOR SYMPTOMS (OASIS) CENTER

Publications

- Dorsey S, **Renn C**, Griffioen M et al. (2019). Whole blood transcriptomic profiles can differentiate vulnerability to chronic low back pain. PLOS ONE. 14. e0216539. 10.1371/journal.pone.0216539.
- Jun Kim, Hee & Greenspan, Joel & Ohrbach, Richard & Fillingim, Roger & Maixner, William & **Renn, Cynthia** & Johantgen, Meg & Zhu, Shijun & Dorsey, Susan. (2019). Racial/ethnic differences in experimental pain sensitivity and associated factors – Cardiovascular responsiveness and psychological status. PLOS ONE. 14. e0215534. 10.1371/journal.pone.0215534.
- Griffioen, Mari & Ziegler, M & O'Toole, R & Dorsey, Susan & **Renn, Cynthia**. (2019). (290) Effectiveness of Analgesics Administered for Lower Extremity Fracture Pain during Hospitalization. The Journal of Pain. 20. S47. 10.1016/j.jpain.2019.01.212.
- Dorsey, Susan & Griffioen, Mari & **Renn, Cynthia** & Cashion, Ann & Colloca, Luana & K. Jackson-Cook, Colleen & Gill, Jessica & Henderson, Wendy & Kim, Hyungsuk & V. Joseph, Paule & Saligan, Leorey & Starkweather, Angela & Lyon, Debra. (2019). Working Together to Advance Symptom Science in the Precision Era. Nursing Research. 68. 86-90. 10.1097/NNR.0000000000000339.
- Starkweather, Angela & Colloca, Luana & Dorsey, Susan & Griffioen, Mari & Lyon, Debra & **Renn, Cynthia**. (2019). Strengthening Inter- and Intraprofessional Collaborations to Advance Biobehavioral Symptom Science. Journal of Nursing Scholarship. 51. 10.1111/jnu.12456.
- T. Hickey, Kathleen & Bakken, Suzanne & W. Byrne, Mary & Bailey, Jr, Donald & Demiris, George & Docherty, Sharron & Dorsey, Susan & J. Guthrie, Barbara & Margaret M. Heitkemper, Dr & Jacelon, Cynthia & J. Kelechi, Teresa & M. Moore, Shirley & Redeker, Nancy & **Renn, Cynthia** & Resnick, Barbara & Starkweather, Angela & Thompson, Hilaire & Ward, Teresa & Mccloskey, Donna & Patricia A. Grady, Dr. (2019). Precision Health: Advancing Symptom & Self-Management Science. Nursing Outlook. 10.1016/j.outlook.2019.01.003.



David J. Riedel, MD, M.P.H

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Research Interests

Cancer in HIV-infected patients
Improving clinical management of HIV and cancer
Disparities in cancer care and mortality between HIV and non-HIV patients
International HIV care and treatment

Grants

- Merck Sharp & Dohme funded CCT, 5/2/18-7/22/20 – A PHASE III MULTICENTER, OPEN-LABEL, RANDOMIZED STUDY TO EVALUATE A SWITCH TO MK-1439AIN HIV-1-INFECTED SUBJECTS

Publications

- Kayumba K, Nsanzimana S, Binagwaho A, Mugwaneza P, Rusine J, Remera E, Koama JB, Ndahindwa V, Johnson P, **Riedel DJ**, Condo J. TRACnet internet and SMS technology improve time to antiretroviral therapy initiation among HIV-infected infants in Rwanda. *Pediatr Infect Dis J* 2016;35(7):767-71.
- Ndahimana JD, **Riedel DJ**, Mwumvaneza M, Sebuho D, Uwimbabazi JC, Kubwimana M, Mugabo J, Mulindabigwi A, Kirk C, Kanters S, Forrest JI, Jagodzinski LL, Peel SA, Ribakare M, Redfield RR, Nsanzimana S. Drug resistance mutations after the first 12 months on antiretroviral therapy and determinants of virologic failure in Rwanda. *Trop Med Int Health* 2016;21(7):928-35.
- Schmalzle S, Buchwald UK, Gilliam BL, **Riedel DJ**. *Cryptococcus neoformans* infection in malignancy. *Mycoses* 2016;59(9):542-52.
- Fantry LE, Nowak RG, Fisher LH, Cullen NR, Yimgang DP, Stafford KA, **Riedel DJ**, Kang M, Innis EK, Riner A, Wang EW, Charurat ME. Colonoscopy findings in HIV-infected men and women from an urban United States cohort compared to non-HIV-infected men and women. *AIDS Res Hum Retroviruses* 2016;32(9):860-7.
- **Riedel DJ**, Taylor S, Simango R, Kiromera A, Sebeza J, Baribwira C, Musabeyezu E. Hepatitis C treatment outcomes using interferon- and ribavirin-based therapy in Kigali, Rwanda. *Trans Royal Soc Trop Med Hyg* 2016;110(8):495-7.
- **Riedel DJ**, Stafford KA, Vadlamani A, Redfield RR. Virologic and immunologic outcomes in HIV-infected patients with cancer. *AIDS Res Hum Retroviruses* 2016 Nov 8. [Epub ahead of print].
- Mutagoma M, Balisanga H, Remera E, Gupta N, Malamba SS, **Riedel DJ**, Nsanzimana S. Ten-year trends of syphilis in sero-surveillance of pregnant women in Rwanda and correlates of syphilis-HIV co-infection. *Int J STD AIDS* 2017; 28(1):45-53.



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Honors and Awards

- *Best of the Best plenary session, International Cancer Education Conference (2016)*
- *Abstract Citation Award, Society of Behavioral Medicine (2016)*
- *Research and Development Award, University of Maryland, School of Public Health (2013)*
- *Fellow, American Academy of Health Behavior (2012)*

Research Interests

The main focus of Dr. Ryan's research is the study of obesity, body fat distribution, intramuscular fat and their role in insulin resistance with emphasis on the effects of weight loss and exercise training on muscle and glucose metabolism in sedentary, overweight individuals.

Grants

- VA funded I21, 12/1/18-11/30/20 – Progressive Activity-Based Rehabilitation in Veteran Cancer Survivors with Chronic Pain
- VA funded I01, 5/1/15-4/30/20 – Resistive Training Combined with Nutritional Therapy after Stroke

Publications

- **Ryan AS**, Ivey FM, Serra MC, Hartstein J, Hafer-Macko CE. Sarcopenia and physical function in middle-aged and older stroke survivors. *Archives of Physical Medicine and Rehabilitation*, 2016. PMID:27530769
- Prior SJ, Goldberg AP, Ortmeyer HK, Chin ER, Chen D, Blumenthal JB, **Ryan AS**. Increased skeletal muscle capillarization independently enhances insulin sensitivity in older adults after exercise training and detraining. *Diabetes*, 2015;64(10):3386-3395. PMID: 26068543
- **Ryan AS**, Katzell LI, Prior SJ, McLenithan JC, Goldberg AP, Ortmeyer HK. Aerobic exercise plus weight loss improves insulin sensitivity and increases skeletal muscle glycogen synthase activity in older men. *J Gerontol A Biol Sci Med Sci* 2014; 69(7):790-8. PMID: 24357038
- **Ryan AS**, Ortmeyer HK, Sorkin JD. Exercise with calorie restriction improves insulin sensitivity and glycogen synthase activity in obese postmenopausal women with impaired glucose tolerance. *Am J Physiol Endocrinol Metab*. 2012;302:E145-152.
- **Ryan AS**, Ivey FM, Prior S, Li G, Hafer-Macko C. Skeletal muscle hypertrophy and muscle myostatin reduction after resistive training in stroke survivors. *Stroke* 2011; 42(2):416-420. PMCID: 3026882
- Ferrara CM, Goldberg AP, Ortmeyer HK, **Ryan AS**. Effects of aerobic and resistive exercise training on glucose disposal and skeletal muscle metabolism in older men. *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences*. 2006 May 1;61(5):480-7.
- Ivey FM, **Ryan AS**, Hafer-Macko CE, Garrity BM, Sorkin JD, Goldberg AP, Macko RF. High prevalence of abnormal glucose metabolism and poor sensitivity of fasting plasma glucose in the chronic phase of stroke. *Cerebrovascular diseases*. 2006;22(5-6):368-71.
- You T, **Ryan AS**, Nicklas BJ. The metabolic syndrome in obese postmenopausal women: relationship to body composition, visceral fat, and inflammation. *The Journal of Clinical Endocrinology & Metabolism*. 2004 Nov 1;89(11):5517-22.



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Honors and Awards

- *University of Maryland School of Medicine, Department of Epidemiology and Public Health, Medical School Teaching Award (2015)*
- *President, Genomic Standards Consortium (2015-2016)*

Research Interests

Dr. Schriml's research centers on developing and implementing ontological tools aimed at classifying and unifying cancer nomenclature and term usage.

Grants

- NIH funded U41, 9/14/17-6/30/22 – The Disease Ontology Project: mechanistic profiles of human disease for biomedical and clinical research

Publications

- Salomonis N, Dexheimer PJ, Omberg L, Schroll R, Bush S, Huo J, **Schriml L**, Sui SH, Keddache M, Mayhew C, Shanmukhappa SK. Integrated genomic analysis of diverse induced pluripotent stem cells from the progenitor cell biology consortium. *Stem cell reports*. 2016 Jul 12;7(1):110-25.
- Kibbe WA, Arze C, Felix V, Mitraka E, Bolton E, Fu G, Mungall CJ, Binder JX, Malone J, Vasant D, Parkinson H, **Schriml LM**. (2015) Disease Ontology 2015 update: an expanded and updated database of human diseases for linking biomedical knowledge through disease data. *Nucleic Acids Res*. 43(Database issue):D1071-1078.
- Wu TJ, **Schriml LM**, Chen QR, Colbert M, Crichton DJ, Finney R, Hu Y, Kibbe WA, Kincaid H, Meerzaman D, Mitraka E. Generating a focused view of disease ontology cancer terms for pan-cancer data integration and analysis. *Database*. 2015 Jan 1;2015.
- Dawn Field, Peter Sterk, Renzo Kottmann, J. Wim De Smet, Linda Amaral-Zettler, Guy Cochrane, James R. Cole, Neil Davies, Peter Dawyndt, George M. Garrity, Jack A. Gilbert, Frank Oliver Glöckner, Lynette Hirschman, Hans-Peter Klenk, Rob Knight, Nikos Kyrpides, Folker Meyer, Ilene Karsch-Mizrachi, Norman Morrison, Robert Robbins, Inigo San Gil, Susanna Sansone, **Lynn Schriml**, Tatiana Tatusova, Dave Ussery, Pelin Yilmaz, Owen White, John Wooley, Gregory Caporaso. (2014) Genomic Standards Consortium Projects. *Standards in Genomic Sciences*. 9:3.
- **Schriml L**. et al. (2013) The 15th Genomic Standards Consortium meeting. *Standards in Genomic Sciences*. 8:124-164.
- EM Glass, Y Dribinsky, P Yilmaz, H Levin, R Van Pelt, D Wendel, A Wilke, J A Eisen, S Huse, A Shipanova, M Sogin, J Stajich, R Knight, F Meyer and **LM Schriml**. (2013) MlXS-BE: a MlXS extension defining a minimum information standard for sequence data from the built environment. *ISME J*. 2013 Oct 24.



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Honors and Awards

- *University of Maryland School of Medicine, Department of Epidemiology and Public Health, Medical School Teaching Award (2015)*
- *President, Genomic Standards Consortium (2015-2016)*

Research Interests

Dr. Sheikhatari's research centers around nicotine dependence, biomedical research, and community-based participatory research.

Publications

- O'Keefe AM, Bustad K, Apata J, **Sheikhatari P**, Abrams NR, Mahmud A. What Differentiates Underserved Smokers Who Successfully Quit From Those Who Do Not. *J Community Health*. 2018 Jul 16. doi: 10.1007/s10900-018-0551-8.
- Campollo, O., **Sheikhatari, P.**, Alvarez, C., Toro-Guerrero, J., Avila, H. S., & Wagner, F. A. (2018). Factors associated with tobacco, alcohol, and other drug use among youth living in West Central Mexico. *World journal of psychiatry*, 8(1), 33.
- Petteway, R. J., **Sheikhatari, P.**, & Wagner, F. (2018). Toward an Intergenerational Model for Tobacco-Focused CBPR: Integrating Youth Perspectives via Photovoice. *Health promotion practice*, 1524839918759526.
- Campollo, O., **Sheikhatari, P.**, Alvarez, C., Toro, J., Sanchez, H., Wagner, F. (2018). Factors associated with tobacco, alcohol, and other drug use among youth living in West central Mexico. *World Journal of Psychiatry*.
- Kamangar, F., Silver, G., Hohmann, C., Hughes-Darden, C., Turner-Musa, J., Haines, R. T., & **Sheikhatari, P.** (2017, December). An entrepreneurial training model to enhance undergraduate training in biomedical research. In *BMC Proceedings* (Vol. 11, No. 12, p. 18). BioMed Central.
- Estreet, A., Apata, J., Kamangar, F., Schutzman, C., Buccheri, J., O'Keefe, A.M., Wagner, F., **Sheikhatari, P.** (2017). Improving Participants' Retention in a Smoking Cessation Intervention Using a Community-Based Participatory Research Approach. *International Journal of Preventive Medicine*, 8(1), 106.
- **Sheikhatari, P.**, Apata, J., Kamangar, F., Schutzman, C., O'Keefe, A., Buccheri, J., & Wagner, F. A. (2016). Examining Smoking Cessation in a Community-Based Versus Clinic-Based Intervention Using Community-Based Participatory Research. *Journal of community health*, 41(6), 1146-1152.
- Wagner, F. A., **Sheikhatari, P.**, Buccheri, M. J., Gunning, M. M., Bleich, M. L., & Schutzman, M. C. (2016). A community-based participatory research on smoking cessation intervention for urban communities. *Journal of health care for the poor and underserved*, 27(1), 35-50.



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Research Interests

Women's health and informatics methods to support multi-disciplinary team science, including disparities, cervical cancer, and population health.

Publications

- Schluterman, N, Terplan, MS, Lydecker, AD & **Tracy, JK** (2011). Human Papillomavirus (HPV) Vaccine Uptake and Completion at an Urban Hospital. *Vaccine*, 29(21), 3767-3772. PMID: 23642184.
- **Tracy, JK**, Traore, CB, Bakarou, K, Dembelé, R, Coulibaly, R, Sow, SO (2011). Risk factors for high-risk human papillomavirus infection in unscreened Malian women. *Tropical Medicine and International Health*, 16(11), 1432-1438. PMC322272
- Tracy, LM, Burgess, C, Sow, SO, Gravitt, PE, Gaff, HD & **Tracy, JK** (2011). Estimating the impact of a prophylactic human papilloma virus vaccine on cervical cancer incidence: A developing country model. *Clinical Infectious Diseases*, 52 (5), 641-5. PMID: 21252142
- Schluterman, NH, Sow, SO, Traore, CB, Bakarou, K, Dembelé, R, Sacko, F, Gravitt, PE & **Tracy, JK** (2013). Differences in patterns of high-risk human papillomavirus infection among women in urban and rural Mali, West Africa. *BMC Women's Health*, 13(4), 4-10. PMC3599375
- **Tracy, JK**, Schluterman, NH, Greenberg, DR, Harris Interactive (2013). Understanding cervical cancer screening among lesbians: a national survey. *BMC Public Health*, 13(1), 442-.
- **Tracy, JK**, Schluterman, NH, Greene, CR, Sow, SO, Gaff, HD (2014). Planning for human papillomavirus (HPV) vaccination in sub-Saharan Africa: A Modeling-based Approach. *Vaccine*. 32(26), 3316-3322. PMID 24731734
- Nan, X, Madden, K, Richards, A, Holt, C, Wang, MQ, **Tracy, JK** (2015). Message framing, perceived susceptibility, and intentions to vaccinate children against HPV among African American parents. *Health Communications*, e-pub 8 December
- Swanberg, J., Nichols, H., Ko, J., **Tracy, JK**. & Vanderpool, R. Strategies Used by Working Poor Breast Cancer Survivors to Manage the Cancer-Work Interface. (2017) *Journal of Psychosocial Oncology*, doi.org/10.1080/07347332.2016.1276503.
- De Groot, AS, Tégouété, I, Dolo, A, Diallo, FS, Beseme, S, Poole, DE, Levitz, L, Rochas, M, Aboubacar, B, Tounkara, K, Sankare, M, Yekta, S, **Tracy, JK**, Sow, SO, Koita, OA. (in press). HPV and Cervical Cancer Knowledge, Attitudes, Practices and Vaccine Acceptance in Bamako Mali. *PLOS One*.



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Honors and Awards

- *Roentgen Resident/Fellow Research Award (2019)*
- *Resident Manuscript of the Year Award (2018)*
- *Lynn Sage Symposium Scholar Award (2017)*
- *ROI Excellence Award (2017)*
- *Radiation Oncology Research Award, University of Maryland Medical Center (2013)*

Research Interests

Dr. Vyfhuis's recent research has focused specifically on stage III non-small cell lung cancer survivorship.

Publications

- **Vyfhuis M**, Bhooshan N, Burrows W, Turner M, Suntharalingam M, Donahue J, Nichols E, Feliciano J, Bentzen S, Badiyan S, Carr S, Friedberg J, Simone II C, Edelman M, Feigenberg S, Mohindra P. Oncological outcomes from trimodality therapy receiving definitive doses of neoadjuvant chemoradiation (≥ 60 Gy) and factors influencing consideration for surgery in stage III non-small cell lung cancer. *Advances in Radiation Oncology*. 2017; 2(3):259-269
- **Vyfhuis M**, Bhooshan N, Molitoris J, Bentzen S, Feliciano J, Edelman M, Burrows W, Nichols E, Suntharalingam M, Donahue J, Nagib M, Carr S, Friedberg J, Badiyan S, Simone II C, Feigenberg S, Mohindra P. Clinical outcomes of black vs. Non-black patients with locally advanced non-small cell lung cancer. *Lung Cancer*. 2017; 114:44-49
- **Vyfhuis M**, Bhooshan N, Burrows W, Turner M, Suntharalingam M, Donahue J, Nichols E, Feliciano J, Bentzen S, Badiyan S, Carr S, Friedberg J, Simone II C, Edelman M, Feigenberg S, Mohindra P. Implications of Pathological Complete Response (pCR) at the Primary Tumor after Chemoradiotherapy (CRT) followed by Surgical Resection in Patients with Locally Advanced, Non-Small Cell Lung Cancer (LA-NSCLC). *International Journal of Radiation Oncology Biology Physics*. 2018; 101(2):445-452
- Rice S, Molitoris J, **Vyfhuis M**, Edelman M, Burrows M, Feliciano J, Nichols E, Suntharalingam M, Donahue J, Carr S, Friedberg J, Badiyan S, Simone 2nd C, Feigenberg S, Mohindra P. Nodal Size Predicts for Asymptomatic Brain Metastases in Non-Small Cell Lung Cancer Patients at Diagnosis. *Clinical Lung Cancer*. September 2018; pii: S1525-7304(18)30259-6.
- **Vyfhuis M**, Bentzen S, Bhooshan N, Edelman M, Burrows W, Nichols E, Suntharalingam M, Donahue J, Carr S, Friedberg J, Badiyan S, Simone II C, Feigenberg S, Mohindra P, Feliciano J. Marital status is an independent predictor of survival for stage III non-small cell lung cancer (NSCLC) patients undergoing definitive chemoradiation with or without surgery. *Journal of Community and Supportive Oncology*. September 2018:16(5); e194-e201.
- **Vyfhuis M**, Bentzen S, Molitoris J, Grover S, Badiyan S, Simone II C, Mohindra P. Patterns of Care and Survival in Black and Latino Patients as Compared to White Patients with Stage III Non-Small Cell Lung Cancer. *Clin Lung Cancer*. February 2019; pii: S1525-7304(19)30065-8.



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Honors and Awards

- Prize on 'Formation Mechanism of (2)/(3)-Monochloropropanediol- and Glycidyl Fatty Acid Esters in Fats and Oils', *The German Society for Fat Science* (2014)
- Distinguished Agricultural Aluminum Award, College of Agriculture, Purdue University, West Lafayette (2012)
- Outstanding Food Science Award, Department of Food Science, Purdue University, West Lafayette (2012)

Research Interests

Dr. Yu researches value-added nutraceutical & functional food production for disease prevention and health promotion; natural food preservatives for improving food quality and safety; cellular and molecular mechanisms of bioactive food factors; general food chemistry and enzymology.

Grants

- USDA, 8/1/18-7/31/23 – METABOLOMIC METHODS FOR PLANT AND ANIMAL SPECIMENS
- USDA, 8/1/16-7/31/21 – STUDIES ON THE EFFECTS OF DIETARY BIOACTIVE COMPONENTS ON CHRONIC DISEASE PREVENTION

Publications

- Lv, J., Huang, H., **Lu, Y.**, Whent, M., Wang, T., Luthria, D., Charles, D., Liu, L. Yu, L. (2012). Phenolic composition, anti-proliferative, anti-inflammatory, and antioxidant properties of conventional and organic cinnamon and peppermint. *Food Chemistry*. 132: 1442-1450.
- Jing, P., Ye, T., Shi, H., Sheng, Y., Slavin, M., Gao, B., Liu, L., **Yu, L.** 2012. Antioxidant properties and phytochemical composition of China-grown pomegranate seeds. *Food Chemistry*. 132: 1457-1464.
- Xie, Z., Huang, H., Zhao, Y., Shi, H., Wang, S., Wang, T., Chen, P., **Yu, L.** (2012). Chemical composition, and anti-proliferative and anti-inflammatory effects of the leaf and whole-plant samples of diploid and tetraploid *Gynostemma pentaphyllum*. *Food Chemistry*. 132: 125-133.
- Whent, M., Lv, J., Lutterodt, H., Luthria, D., Kenworthy, W., **Yu, L.**, (2012). Phytochemical composition and antioxidant capacity of modified-lipoxygenase soybeans grown in Maryland. *Journal of Agricultural and Food Chemistry*. accepted.
- Lutterodt, H., Slavin, M., Whent, M., Turner, E., **Yu, L.** (2011). Fatty acid composition, oxidative stability, antioxidant and antiproliferative properties of selected cold-pressed grape seed oils and flours. *Food Chemistry*. 128: 391-399.
- Liu, Y., Flynn T.J., Ferguson, M., Hoagland, E.M., **Yu, L.** (2011). Effects of dietary phenolics and botanical extracts on hepatotoxicity-related endpoints in human and rat hepatoma cells and statistical models for prediction of hepatotoxicity. *Food and Chemical Toxicology*. 49: 1820-1827.
- Xie, Z., Whent, M., Niu, Y., Lutterodt, H., Slavin, M., Kratochvil, R., **Yu, L.** (2011). Phytochemicals, antioxidant and anti-proliferative properties of Maryland-Grown tobacco seed oils and flours. *Journal of Agricultural and Food Chemistry*. 59: 9877-9884.



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Notes



Notes