**Ronald C. Eldridge Jr.**

Primary appointment: Assistant Professor, Nell Hodgson Woodruff School of Nursing, Emory University



**EDUCATION**

2014 Doctor of Philosophy Laney Graduate School, Emory University Epidemiology

Atlanta, Georgia

2010 Master of Public Health Rollins School of Public Health, Emory University Epidemiology

Atlanta, Georgia

2008 Bachelor of Science Loyola University-Chicago Biology

Chicago, Illinois

**HONORS & AWARDS**

2019 Research Poster Award NHWSN, Emory University

2017 Paper of the Month *Annals of Epidemiology*

2016 Fellows Award for Research Excellence National Institutes of Health

2015 SERDigital Conference Award Society of Epidemiologic Research

2009 Global Field Experience Award Emory University

2008 *magna cum laude* Graduate Loyola University

2008 Biology Honors Graduate Loyola University

2007-08 Dean’s List Loyola University

**PROFESSIONAL EXPERIENCE**

2022- Tenure Track Assistant Professor Nell Hodgson Woodruff School of Nursing

Emory University, Atlanta, GA

2019-22 Research Track Assistant Professor Nell Hodgson Woodruff School of Nursing

Emory University, Atlanta, GA

2017-19 Postdoctoral Fellow-Nursing School Emory University, Atlanta, GA

2014-17 Cancer Prevention Fellow National Cancer Institute, Bethesda, MD

2011-14 Graduate Research Assistant Emory University, Atlanta, GA

2012 Summer Graduate Research Assistant MD Anderson Cancer Center, Houston, TX

2008-12 Graduate Research Assistant American Cancer Society, Atlanta, GA &

Hanoi, Vietnam



**SCHOLARSHIP: GRANTS & OTHER FUNDING**

**Research Grants Under Review**

Multi-Omics Analysis of Psychoneurological Symptoms in Patients with Head and Neck Cancer (Lin)

National Cancer Institute (R03)

Co-Investigator, 1% effort

Total Award Costs: 35,353

Funding Period: 4/2026-3/2028

Decoding Early Biomarkers of Cachexia in Head and Neck Cancer via Multi-Omics and Imaging (Eldridge)

National Cancer Institute (R01 CA312547)

Principal Investigator, 30% effort

Total Award Costs: $1,956,250

Funding Period: 4/2026-3/2031

Proteomic and Metabolomic Biomarkers for Predicting Immunotherapy Response in Head and Neck Cancer (Eldridge)  
National Cancer Institute (R21 CA307828)  
Principal Investigator, 30% effort  
Total Award Costs: $426,282  
Funding Period: 1/2026-12/2027

Aging-associated morbidities and health disparities among cancer survivors and caregivers (C, Xiao, I, Graetz, X, Hu)

National Institutes of Health (P01)

Co-investigator of project 2, 10% effort

Total Award Costs: $13,504,882 (Total costs of Project 2: $3,186,346)

Funding Period: 9/1/2025 – 7/31/2030

Mechanisms Underlying Longitudinal Inflammatory, Alzheimer's Disease, and Hormonal Biomarker Changes in Black and White American Women (Wharton)

National Institute on Aging (R01)

Co-investigator

Total Award Costs: $3,942,614

Funding Period: 5/2025-4/2030

Metabolome-Microbiome Biomarkers Related to Psychoneurological Symptoms in Children and Young Adults with Sarcomas Receiving Chemotherapy (Bai)

NCI (R01 CA279989)

Co-Investigator, 10% effort

Total Award Costs: 3,967,071

Funding Period: 9/1/2024 - 8/31/2029

**Research Grants Funded by National Institute of Health**Integrative Multi-Omics of Metabolomics and Epigenetics to Explore the Pathophysiology of Cachexia and Survival in Head and Neck Squamous Cell Carcinoma (Eldridge)

National Cancer Institute (R03 CA304028)

Principal Investigator, 17.5% effort

Total Award Costs: $156,502  
Funding Period: 8/2025-7/2027

PeRsonalized Outreach and Multifaceted Interventions for Screening Equity (PROMISE) for Anal and Cervical Cancer Prevention and Treatment (Flowers)

National Cancer Institute (U54 CA302465)

Co-Investigator, 3% effort

Total Award Costs: $5,708,215

Funding Period: 7/2025-6/2030

Validating a plasma metabolomic biomarker to improve precision medicine in head and neck cancer patients (Eldridge)  
National Center for Advancing Translational Sciences (R03 TR004312)  
Principal Investigator, 12.5% effort  
Total Award Costs: $156,500  
Funding Period: 7/2023–6/2025

Role of estradiol and related hormones on inflammation, sleep, and risks for Alzheimer’s disease (Wharton)

National Institute on Aging (R01 AG066203)

Co-investigator, 5% effort

Total Award Costs: $3,617,569

Funding Period: 9/2019 – 6/2026

**Research Grants Funded by other Agencies**

Examining the Gut Microbiome, Metabolites and Neuroendocrine Biomarkers Associated with the Psychoneurological Symptom Cluster in Long COVID (Bai)

Funded by Georgia CTSA

Co-Investigator, 0% effort

Total Award Costs: $45,455

Funding Period: 11/2022-6/2024

Identifying Multi-level Social Determinants for Disparities in Survival and Patient-Reported Outcomes among National Head and Neck Cancer Trials (Bai)

Funded by Oncology Nursing Foundation (RE33 %69765)

Co-Investigator, 1.5% effort

Total Award Costs: $100,000

Funding Period: 9/2022-10/2024

Metabolomics of patient reported outcomes in children with cancer (Withycombe)

Discretionary funds of Janice Withycombe, PhD, Clemson University

Contractor, 7% effort

Total Award Costs: $9,990

Funding Period: 5/2021-4/2022

Progressing towards precision medicine in head and neck cancer through high-resolution metabolomics (Eldridge)

Funded by Georgia CTSA (KL2 TR000455-11)

Pilot Principal Investigator, 75% effort

Total Award Costs: $272,594

Funding Period: 8/2019–7/2021

Rurality and neighborhood deprivation with patient-reported outcomes for men with prostate cancer (Bai)

Funded by NRG Oncology (NCORP pilot grant program)

Co-Investigator, 5% Effort

Total Award Costs: $18,000

Funding Period: 9/2019–8/2020

**Educational, Training, or Program Grants Funded**

National Institutes of Health Student Loan Repayment Award (Eldridge)   
Funded by NIH (1L30CA242704)

Total Award Costs: $30,013

Funding Period: 2019-2021

National Institutes of Health Fellows Award for Research Excellence (Eldridge)  
Funded by NIH  
Total Award Costs: $1,500  
Funding Period: 2016

Emory University Professional Development Training Funds (Eldridge)  
Funded by Emory University  
Total Award Costs: $1,500  
Funding Period: 2013

Emory University Professional Development Conference Funds (Eldridge)  
Funded by Emory University  
Total Award Costs: $750  
Funding Period: 2011

Rollins School of Public Health Global Field Experience (Eldridge)  
Funded by Emory University Total Award Costs: $2,000  
Funding Period: 2009



**SCHOLARSHIP: PUBLICATIONS** (data-based denoted with \*, senior or first author with +, student authors underline)

**Peer-Reviewed Publications – Published (h-index of 11 per Google Scholar)**

1. +\*Withycombe JS, Bai J, Xiao C, **Eldridge RC**. Metabolomic Associations With Fatigue and Physical Function in Children With Cancer: A Pilot Study. Biol Res Nurs. 2025 Apr 19. doi: 10.1177/10998004251335639. Epub ahead of print. PMID: 40251999.
2. \*Kimble LP, Khosroshahi A, Brewster GS, Dunbar SB, Ryan D, Carlson N, **Eldridge R**, Houser M, Corwin E. Associations between TCA cycle plasma metabolites and fatigue in black females with systemic lupus erythematosus: An untargeted metabolomics pilot study. *Lupus*. 2024 Aug;33(9):948-961. doi: 10.1177/09612033241260334. Epub 2024 Jun 17. PMID: 38885489; PMCID: PMC11296915.
3. \*Bai J, **Eldridge RC**, Martin M, Powell C, Sutton KS, Noh HI, Richardson B, Wu Y, Shen N, Olson T, Konstantinidis KT, Bruner DW. Multi-Omics Analysis of the Gut Microbiome and Metabolites Associated with the Psychoneurological Symptom Cluster in Children with Cancer Receiving Chemotherapy. *Journal of Translational Medicine*. 22, 256 (2024). DOI: 10.1186/s12967-024-05066-1
4. +\*Burnett C, Jeter L, Duva I, Giordano N, **Eldridge R.** Resilience Training for the Advanced Practice Provider in the Emergency Department: A Quality Improvement Pilot Project. *Journal of Nurse Practitioners*. 2023. Volume 19, Issue 9. https://doi.org/10.1016/j.nurpra.2023.104760.
5. **+\*Eldridge RC**, Qin ZS, Saba NF, Houser MC, Hayes DN, Miller AH, Bruner DW, Jones DP, Xiao C. Unsupervised Hierarchical Clustering of Head and Neck Cancer Patients by Pre-Treatment Plasma Metabolomics Creates Prognostic Metabolic Subtypes. *Cancers*. 2023; 15(12):3184. PMCID: PMC10296258
6. \*Bai J, Pugh SL, **Eldridge RC**, Yeager K, Zhang Q, Lee WR, Shah AM, Dayes IS, D’Souza DP, Michalski JM, Efstathiou JA, Longo JM, Pisansky TM, Maier JM, Faria SL, Desai DB, Seaward SA, Sandler HM, Cooley ME, Bruner DW. Neighborhood deprivation and rurality associated with patient-reported outcomes and survival in men with prostate cancer in NRG RTOG 0415. *Int. Journal of Radiation Oncology, Biology, Physics*. 2023 May 1;116(1):39-49. PMCID: PMC10106367
7. \*Hwang H, Liu R, **Eldridge R**, Hu X, Forghani P, Jones DP, Xu C. Chronic ethanol exposure induces mitochondrial dysfunction and alters gene expression and metabolism in human cardiac spheroids. *Alcohol Clin Exp Res*. 2023 Apr;47(4):643-658. PMID: 36799338.
8. \*Qian DC, Ulrich BC, Peng G, Zhao H, Conneely KN, Miller AH, Bruner DW, **Eldridge RC**, Wommack EC, Higgins KA, Shin DM, Saba NF, Smith AK, Burtness B, Park HS, Stokes WA, Beitler JJ, Xiao C. Outcomes stratification of head and neck cancer using pre- and post-treatment DNA methylation from peripheral blood. *Int. Journal of Radiation Oncology, Biology, Physics*. 2023 Apr 1;115(5):1217-1228. PMID: 36410685
9. **\***Withycombe JS, **Eldridge RC**, Gu H, Castellino S, Sears D. Metabolites associated with Fatigue and Physical Activity in Childhood Cancer. *Biological Research For Nursing*. 2022;24(3):350-361. PMCID: PMC9343883
10. +\*Bai J, Withycombe JS, **Eldridge, RC**. Metabolomic Pathways Associated with Psychoneurological Symptoms in Children with Cancer Receiving Chemotherapy. *Biological Research For Nursing*. 2022;24(3):281-293. doi:10.1177/10998004211069619 PMCID: PMC9343884
11. +\***Eldridge RC**, Uppal K, Shokouhi M, Smith MR, Hu X, Qin ZS, Jones DP and Hajjar I. Multiomics Analysis of Structural Magnetic Resonance Imaging of the Brain and Cerebrospinal Fluid Metabolomics in Cognitively Normal and Impaired Adults. *Front. Aging Neurosci*. (2022). 13:796067. PMCID: PMC8822333
12. +\***Eldridge RC**, Uppal K, Hayes DN, Smith MR, Hu X, Qin ZS, Beitler JJ, Miller AH, Wommack EC, Higgins KA, Shin DM, Ulrich BC, Qian DC, Saba NF, Bruner DW, Jones DP, Xiao C. Plasma metabolic phenotypes of HPV-associated vs smoking-associated head and neck cancer and patient survival. *Cancer Epidemiol Biomarkers & Prev*. 2021 Oct;30(10):1858-1866. PMCID: PMC8492502
13. \*Xiao C, Miller AH, Peng G, Levine ME, Conneely KN, Zhao H, **Eldridge RC**, Wommack EC, Chico CE, Jeon S, Higgins KA, Shin DM, Saba NF, Smith AK, Burtness B, Park HS, Irwin ML, Ferrucci LM, Ulrich B, Qian D, Beitler JJ, Bruner DW. Association of epigenetic age acceleration with risk factors, survival, and quality of life in patients with head and neck cancer. *Int. Journal of Radiation Oncology, Biology, Physics*. 2021 Sep 1;111(1):157-167. PMID: 33882281
14. \*Ferrer E, Tyano E, Mayberry SD, **Eldridge RC**, Evans D, Simpson RL. Grady Memorial Hospital’s Mobile Integrated Health Program: A Statistical Analysis of Low-Acuity 911 Calls. *Journal of Emergency Medical Services*. 2021. Epub Apr 20. PMCID: PMC8406265.
15. \*Huang D, Liu J, **Eldridge RC**, Gaul DA, Paine MRL, Uppal K, MacDonald TJ, Fernandez FM. Lipidome Signatures of Metastasis in a Transgenic Mouse Model of Sonic Hedgehog Medulloblastoma. *Analytical and Bioanalytical Chemistry*. 2020; (412), 7017-7027. PMID: 32794007 PMCID: PMC7982123
16. \*Xiao C, **Eldridge RC**, Beitler J, Higgins K, Felger J, Wommack EC, Saba N, Shin D, Bruner DW, Miller A. Association Among Glucocorticoid Receptor Sensitivity, Fatigue, and Inflammation in Patients with Head and Neck Cancer. *Psychosomatic Medicine*. 2020; 82(5), 508-516. PMID: 32515926 PMCID: PMC7905992
17. **+\*Eldridge RC**, Wentzensen, N, Pfeiffer RM, Brinton LA, Hartge P, Guillemette C, Kemp TJ, Pinto LA, Trabert B. Endogenous estradiol and inflammation biomarkers: potential interacting mechanisms of obesity-related disease. *Cancer Causes and Control*. 2020; 31(4), 309-320. PMID: 32100190 PMCID: PMC7472689
18. **+\*Eldridge RC**, Pugh S, Fu KK, Fisher J, Trotti A, Hu K, Birrer MJ, Yom S, Rosenthal D, Read N, Desai A, Gore E, Shenouda G, Mishra M, Bruner DW, Xiao C. Changing functional status within six months post-treatment is predictive of overall survival in patients with head and neck cancer: NRG Oncology Study. *Head & Neck*. 2019 November; 41(11): 3924–3932. PMID: 31435980 PMCID: PMC6865821
19. **+\*Eldridge RC**, Flanders WD, Bostick RM, Fedirko V, Goodman M. A novel application of structural equation modeling estimates the association between oxidative stress and colorectal adenoma. *Cancer Prevention Research*. 2018. 11(1) 52-58. PMID: 29074536
20. \*Karpman MD, **Eldridge RC**, et. al. Chronic obstructive pulmonary disease among lung cancer free smokers: The importance of healthy controls. *Respiratory Investigation*. 2018; 56(1):28-33. PMID: 29325677
21. **+\*Eldridge RC**, Pawlita M, Wilson L, Castle PE, Waterboer T, Gravitt PE, Schiffman M, Wentzensen N. Smoking and subsequent HPV infection: a mediation analysis. *Annals of Epidemiology*. 2017. 27:724-30. PMID: 29107447 PMCID: PMC5705255 (paper of the month)
22. **+\*Eldridge RC**, Flanders WD, Bostick RM, Fedirko V, Goodman M. Using Multiple Biomarkers and Determinants to Obtain a Better Measurement of Oxidative Stress: a Latent Variable Structural Equation Model Approach. *Biomarkers*. 2017. 22(6):517-24. PMID: 28298141
23. \*Trabert B, **Eldridge RC**, Pfeiffer RM, Shiels MS, Kemp TJ, Guillemette C, Hartge P, Sherman ME, Brinton LA, Black A, Chaturvedi AK, Hildesheim A, Berndt SI, Safaeian M, Pinto L, Wentzensen N. Pre-diagnostic circulating inflammation markers and endometrial cancer risk in the Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial. *Int. J. of Cancer*. 2017. 140:600-10. PMID: 27770434 PMCID: PMC5159268
24. Wentzensen N, **Eldridge RC**. Invited Commentary: Clinical Utility of Prediction Models for Rare Outcomes: The Example of Pancreatic Cancer. *American Journal of Epidemiology*. 2015; 182:35-8. PMID: 26049862 PMCID: PMC4479116
25. \*Flanders WD, **Eldridge RC**, McClellan W. Summary of Relationships between Exchangeability, Biasing Paths and Bias. *European Journal of Epidemiology*. 2015; 30:1089-99. PMID: 24894825
26. \*Flanders WD, **Eldridge RC**, McClellan W. A Nearly Unavoidable Mechanism for Collider Bias with Index-Event Studies. *Epidemiology*. 2014. Sept; 25(5): 762-4. PMID: 25051308

1. **+\*Eldridge RC**, Doubeni CA, Fletcher RH, Zauber AG, Corely DA, Doria-Rose VP, Goodman M. Uncontrolled Confounding in Studies of Screening Effectiveness: An Example of Colonoscopy. *Journal of Medical Screening*. 2013. Dec; 20(4): 198-207. PMID: 24144847 PMCID: PMC3923570
2. \*Gaudet MM, Kuchenbaecker KB, … **Eldridge RC**, … Offit K. Identification of a BRCA2-Specific Modifier Locus at 6p24 Related to Breast Cancer Risk. *PLoS Genet*. 2013. Mar; 9(3). PMID: 23544012 PMCID: PMC3609647
3. **+\*Eldridge RC**, Gapstur SM, Newton CC, Goodman M, Patel AV, Jacobs EJ. Jewish ethnicity and pancreatic cancer mortality in a large United States cohort. *Cancer Epidemiology Biomarkers & Prevention*. 2011 Apr; 20(4): 691-8. PMID: 21278327

**Peer-Reviewed Publications – in press**

1. .

**Peer-Reviewed Publications – submitted, under review, in preparation**

1. **+\*Eldridge RC**, Saba NF, Ziegler T, Qin ZS, Miller AH, Wommack EC, Felger J, Bruner DW, Xiao C. Metabolomic Profiling Reveals Early Biomarkers of Weight Loss in Head and Neck Cancer Survivors. *Journal of Cachexia, Sarcopenia and Muscle*. (2025) under review.
2. **+**\*Abiri A, Ewing S, Hamilton J, **Eldridge RC**. The Impact of Social Determinants of Health on Disparities in Emergency Severity Index Levels in the Emergency Department. *Journal of Advanced Nursing*. (2025) under review.
3. **+\***Ewing S, Xiao R, Thomas N, Khan AM, Evans D, **Eldridge RC**. Predicting Hospital Admission in Median Triage Score Encounters Using Big Data. *Advanced Emergency Nursing Journal*. (2025) in preparation.

1. \*Kimbal D, Simpson R, Staebler S, Bell T, **Eldridge RC**. A Quality Initiative for Premature Infants to Taste Milk Drops During Tube-Feedings. *Journal of Perinatology*. (2025) in preparation.
2. **\***Olivia Mashburn DNP manuscript. Zinc and linear growth in NICU infants. (2025) in preparation.
3. **+\***Webster CI, Ingerski LM, Janss A, Mazewski C, Patterson B, Marchak J, Fong G, **Eldridge R**, Swartz MC, Bai J. The Impact of Cognitive Function and Psychoneurological Symptoms on Health-related Quality of Life in Pediatric Survivors of Posterior Fossa Tumors: A Mediation Analysis. *Cancer Nursing*. (2025) in preparation.

**Other Publications** (Please label as book chapter, book review, research abstract, software, video, etc.

1. +\*Ewing S, **Eldridge RC**, Xiao R, Thomas N. Predicting Hospital Admission and Undertriage in ESI 3 Encounters. ENA 2025. New Orleans, LA. Research abstract.
2. \*Bai J, …, **Eldridge RC**, et. al. Identifying multi-level social determinants for disparities in survival and patient-reported outcomes in national head and neck cancer trials. ASCO. 2025 Chicago, IL. Research abstract.
3. +\***Eldridge, RC.,** Anderson, A; Chaudhary, R; Magliocca, K; Shi, Q; Patel, MR.; Bates, JE.; Kirtane, Kr; Schmitt, NC.; Steuer, CE.; Shin, DM.; Liu, Y; Teng, Y; Chung, CH.; Saba, NF. Plasma metabolites as biomarkers of survival in head and neck cancer patients undergoing pembrolizumab and cabozantinib. AACR IO. 2025. Los Angeles, CA. Research abstract.
4. +\*Ewing S, Xiao R, Thomas N, Khan AM, Evans D, **Eldridge RC**. Predicting Hospital Admission in Median Triage Score Encounters Using Big Data. American Academy of Emergency Nurse Practitioners Conference. 2025. Research abstract.
5. **+\*Eldridge, RC**, Saba NF, Miller AH, Wommack EC, Felger J, Bruner DW, Xiao C. Identifying pretreatment blood metabolic markers associated with weight loss in head and neck cancer patients. International Sarcopenia, Cachexia, Wasting Disorders Conference 2024. Washington DC. Research abstract.
6. **+\*Eldridge, RC**, Saba NF, Miller AH, Wommack EC, Felger J, Bruner DW, Xiao C. Investigating the metabolic-inflammatory mechanisms of cachexia symptoms in head and neck cancer patient plasma via multiomics integration of the metabolome, lipidome, and inflammation cytokines. Translational Science 2024 Conference. Association for Clinical and Translational Science (ACTS). Las Vegas, NV. Research abstract.
7. +\*Withycombe J, Bai J, **Eldridge R**. Metabolomic associations with mobility and fatigue in children receiving treatment for cancer. International Society of Pediatric Oncology 2024 Congress. Hawaii, HI. Podium presentation.
8. \*Webster, C., **Eldridge, R.C.**, Janss, A., Mazewski, C., Ingerski, L., & Bai, J. (2024). Moderating Effects of Individual- and Area-Level Social Determinants of Health on the Relationships between Psychoneurological Symptoms and Quality of Life in Survivors of Childhood Brain Tumors. The 49th Oncology Nursing Society (ONS) Annual Congress, April 24–28, Washington DC. Oral presentation.
9. **+\*Eldridge RC**, Lin Y, Saba NF, Miller AH, Wommack EC, Felger J, Bruner DW, Xiao C. Metabolic-inflammatory investigation of head and neck cancer patient reported neuropsychological factors via multiomics integration of the plasma metabolome, lipidome, and circulating inflammation cytokines. AACR-AHNS 2023. Montreal, Canada. Research abstract.
10. \*Ewing S, **Eldridge R**, Evans D, Wright P. Predicting hospital admission in median triage encounters using big data. Emergency Nursing Annual Conference 2022. Denver, CO. Research abstract.
11. \*Qian DC, Ulrich BC, Peng G, Zhao H, Conneely KN, Miller AH, Bruner DW, **Eldridge RC**, Wommack EC, Higgins KA, Shin DM, Saba NF, Smith AK, Burtness B, Park HS, Stokes WA, Beitler JJ, Xiao C. Outcomes stratification in head and neck cancer using pre- and post-treatment DNA methylation from peripheral blood. American Society for Radiation Oncology 2021. Research abstract.
12. \*Kimble L, Khosroshahi A, **Eldridge RC**, Brewster G, Carlson N, Corwin E. Metabolomic Profiling and Symptom Burden in Black Women with Systemic Lupus Erythematosus. European Alliance of Associations of Rheumatology. Research Abstract. Arthritis Rheumatol. 2021; 73 (suppl 9).
13. \*Bai, J., Pugh, S.L., **Eldridge, R**, Yeager, K., Zhang, Q., Lee, W.R., Shah, A.B., Dayes, I.S., D’Souza, D.P., Michalski, J.M., Efstathiou, J.A., Longo, J.M., Pisansky, T.M., Maier, J.M., Faria, S.L, Desai, A.B., Seaward, S.A., Sandler, H.M., Cooley, M.E., & Bruner, D.W. Rurality and neighborhood socioeconomic deprivation associated with patient-reported outcomes and survival in men with prostate cancer in NRG RTOG 0415. The AACR Annual Meeting 2021. Research Abstract
14. \*Bai J, **Eldridge RC**, Withycombe J. Metabolites associated with the psychoneurological symptom cluster in children with cancer receiving chemotherapy. NCI/NINR/ONS Symptom Science Advances in Oncology Nursing (virtual). 2021. Research abstract.
15. **+\*Eldridge RC**, et. al. Metabolic differences between human papillomavirus-related and smoking-related squamous cell carcinoma of the head and neck independently predict overall patient survival. AACR Special Conference on Epigenetics and Metabolism. 2020. Virtual. Research Abstract.
16. **+\*Eldridge RC**, et. al. Metabolic Pathways Associated with Pain, Fatigue, Anxiety, and Depression in Children with Cancer. Metabolomics Association of North America Conference. 2020. Virtual. Research Abstract
17. **+\*Eldridge RC**, et. al. “The Metabolomics of Head and Neck Cancer by Human Papillomavirus Status and Tobacco Use”. Metabolomics Association of North America Conference. 2019. Atlanta, GA. Research Abstract
18. **+\*Eldridge RC**, Uppal K, Shokouhi M, Jones D, Hajjar IM. “Integrative Metabolo-Imaging Network Analysis Describes Brain Metabolomic Mapping in Mild Cognitive Impairment”. Alzheimer’s Association International Conference. 2019. Los Angeles, CA. Research Abstract
19. **+\*Eldridge RC**, Flanders WD, Adler C, Bruner DW, Xiao C. “Are We Underestimating Cancer Mortality? A Mediation Model Shows a Larger Impact from Smoking”. American Association of Cancer Research Annual Meeting. 2019. Atlanta, GA. Research Abstract
20. **+\*Eldridge RC**, Andrew H. Miller, Deborah W. Bruner, Jonathan J. Beitler, Kristin A. Higgins, Evanthia C. Wommack, Linh Kha Huynh, Nabil F. Saba, Dong M. Shin, Canhua Xiao. Predicting fatigue levels of head and neck cancer patients with gene expression using machine learning. In: Proceedings of the American Association for Cancer Research Annual Meeting 2018; Apr 14-18; Chicago, IL. Philadelphia (PA): AACR; Cancer Res 2018;78(13 Suppl): Abstract nr 4257. Research Abstract
21. **+Eldridge RC**, Petrick J. “Time-varying bias when estimating risk from repeat monitoring of a chronic health condition: a cautionary tale using an endometrial cancer example”. ACE Annual Meeting; 2017. New Orleans, LA. Research Abstract
22. **+\*Eldridge RC**, et. al. A mediation analysis to investigate the mechanism underlying smoking, HPV antibodies, and HPV re-acquisition. SER Annual meeting; 2015; Denver, CO. Research Abstract
23. **+\*Eldridge RC**, et. al. Smoking and HPV antibodies, a mediation analysis of HPV re-infection. AACR Annual Meeting 2015; Philadelphia, PA. Research Abstract
24. Flanders WD, **Eldridge RC**, McClellan W. June 2014. Index-Event Studies: Potentially Large Collider Bias of Usual Effect Estimators. SER Annual meeting 2014; Seattle, WA. Research Abstract
25. \*Ha-Iaconis, T., **Eldridge, R**., et. al. Oct 2010. Clearing The Air: Communicating a Smoke-free Viet Nam. Asia Pacific Conference on Tobacco or Health. Sydney, Australia. Research Abstract
26. Christine M. Khosropour, Ronald Eldridge, et. al. Feb 2010. Students for Surge: Participation of Emory University's Student Outbreak and Response Team. Public Health Preparedness Summit. Atlanta, GA. Research Abstract



**SCHOLARSHIPS: PRESENTATIONS** (Invited presentations denoted with #, podium presentations with ^)

**International Presentations**

1. **^Ronald C. Eldridge. Identifying Pretreatment Blood Metabolomic Markers Associated with Weight Loss in Head and Neck Cancer Patients. International Conference of the Society on Sarcopenia, Cachexia, & Wasting Disorders. Washington DC, USA. 2024.**
2. ^Xiao C, **Eldridge RC**, et. al. “The association between glucocorticoid receptor sensitivity and fatigue in patients with head and neck cancer. Multinational Association of Supportive Care in Cancer and the International Society of Oral Oncology. Vienna, Austria. 2018.

**National Presentations**

1. **^Ronald C. Eldridge. Plasma Metabolome as a Biomarker for Immunotherapy in Recurrent or Metastatic Head and Neck Cancer. Metabolomics Association of North America Conference 2024. Tampa, FL.**
2. **#Ronald C. Eldridge. Metabolomics of Head and Neck Cancer in Patient Plasma. Translational Science Head and Neck Working Group, NRG Oncology. July 2023. Philadelphia, PA.**
3. **^Ronald C. Eldridge. Hierarchical clustering analysis of plasma metabolomics identifies biologically distinct subtypes of head and neck cancer associated with overall survival. Metabolomics Association of North America Conference 2021. Virtual.**
4. ^**Ronald C. Eldridge**, Jessica Petrick. “Advancing Risk Stratification for Precision Prevention: Methodological, Clinical, and Ethical Considerations for Rare Diseases”. ACE Annual Meeting; 2017. New Orleans, LA.
5. ^**Ronald C. Eldridge**, Nicolas Wentzensen, Britton Trabert. “Examining the Estrogen and Inflammation Pathways in Obesity and Endometrial Cancer: The Potential for Intermediate Confounding”. SERdigital; 2015.

**State/Regional Presentations**

1. **#Panelist for 15th Annual NCI DCEG Fellows’ Training Symposium Career Roundtable. National Institutes of Health. May 2023.**
2. **#Eldridge RC. Multiomics integration: Lessons learned analyzing metabolomics with imaging. Emory School of Nursing Omics Working Group. April 2022.**

1. #**Eldridge RC**. Analytical Metabolomics in Head and Neck Cancer. P30 Research Roundtable, Center for the Study of Symptom Science, Metabolomics and Multiple Chronic Conditions. Emory School of Nursing. September 2021.
2. #Panelist for Metabolomics from Analysis to Publication – Best Practices and Lessons Learned. Center for the Study of Symptom Science, Metabolomics and Multiple Chronic Conditions. Emory School of Nursing. September 2021.
3. **^Eldridge RC**, Saba NF, Beitler JJ, Wommack EC, Higgins KA, Shin DM, Miller AH, Bruner DW, Xiao C. Plasma metabolome-wide association study of patient reported fatigue in head and neck squamous cell carcinoma. Summer Institute on Symptoms and Omics Conference. 2021. Virtual.
4. #**Eldridge RC**. Plasma Metabolomics of HPV and Smoking in Head and Neck Squamous Cell Carcinoma. Emory University Bioinformatics Working Group. March 2021.
5. **^Ronald C. Eldridge**, et. al. The Metabolomics of Human Papillomavirus Status and Tobacco Use Among Head and Neck Cancer Patients. Southeast Regional Clinical Translational Science Alliance Conference. 2020.
6. **#Ronald C. Eldridge**. “Metabolomics Project Workflow: step-by-step introduction”. Science of Excellence Seminar, December 2018. Nell Hodgson Woodruff School of Nursing, Emory University.
7. **#Ronald C. Eldridge**. “Examples of Machine Learning in Clinical Research”. Science of Excellence Seminar, October 2018. Nell Hodgson Woodruff School of Nursing, Emory University.
8. **#Ronald C. Eldridge**. “Analysis and Bias in Epidemiologic Studies”. Cancer Prevention Fellowship Program, NCI, Summer Course. 2015-17. Bethesda, MD.
9. **#Ronald C. Eldridge**. “Counterfactually-defined mediation analysis: explanation and examples”. DCEG Epidemiology and Applied Biostatistics lecture series, DCEG, NCI. 2016. Bethesda, MD.
10. **#Ronald C. Eldridge**. “Counterfactually-Defined Mediation Analysis: What is it?” Cancer Prevention Fellowship Program, NCI. 2015. Bethesda, MD.



**TEACHING ACTIVITIES**

**Courses Taught**

Spring 2023-25 Quantitative Methods and Study Designs II, NRSG 730 Course Coordinator

Fall 2024 Design Methods Analyses, NRSG 709D Instructor

Fall 2022 Quantitative Methods and Study Designs I, NRSG 729 Course Coordinator

Spring 2022 Clinical Research and Design, NRSG 730 Course Coordinator

Spr./Fall 2019-23 Epidemiology for Advanced Practice Nurses, NRSG 703D Course Coordinator

Summer 2019 Biostatistics for Practice Scholars, NRSG 504 Instructor

Fall 2018 Analyzing, Evaluating & Translating Health Evidence, NRSG 702D Instructor

Spring 2012-13 Advanced Epi Methods I, EPI 738 Teaching Assistant

Fall 2012 Advanced Epi Methods II, EPI 739 Teaching Assistant

Fall 2009-11 Epidemiology Methods I, EPI 530 Teaching Assistant

Spring 2011 Epidemiology Methods II, EPI 534 Teaching Assistant

Spring 2010 Application of Epidemiologic Concepts, EPI 591U Teaching Assistant

**Invited Lecturer**

2025 Foundational Concepts in Data and Statistics – MSN Emory Nursing

2024-5 Experiential Learning Oncology Hub – PhD Student Paper Review Emory Nursing

2024 Scholarly Inquiry for BSN Honors: Introductory Research Methods Emory Nursing

2019 Endogenous & Exogenous Determinants of Human Health Emory Nursing

2017 Advanced Epi Methods II-Parametric G-formula Emory Public Health

2016 Epi and Biostat Lecture Series-Mediation Analysis Explained NCI DCEG

2015-17 Principles and Practice in Cancer Prevention and Control - Bias NCI CPFP

2015 Estrogen & Inflammation Pathways of Endometrial Cancer NCI CPFP

2015 Fellowship Program-Mediation analysis NCI Cancer Prevention

2014 Methods and Training-SAS output delivery system NCI CPFP

2013 Advanced Epi Methods I-Structural selection bias Emory Public Health

2012 Advanced Epi Methods I-Casual methods interaction Emory Public Health

**Student Advisement**

2025 Ali Tfaily, PhD QE Committee Member

2024 Hyein Kim, PhD QE Committee Chair

2024 Olivia Mashburn, DNP Committee Advisor

2023 Charmaine Stotler, DNP Committee Member

2022 Kelly Goszkowicz, DNP Committee Advisor

2022-23 Caitlin Burnett, DNP Committee Member

2021-23 Diana Kimbal, DNP Committee Member

2021 Nicole “Nic” Thomas, DNP Committee Advisor

2021 Melissa Poole-Dubin, DNP Committee Advisor

2020-23 Sam Ewing, DNP Committee Member

2020-21 Erin Ferrer, DNP Committee Member

2020-21 Emma Tyano, DNP Committee Member

2020 Hannah Walters, DNP Committee Advisor

2019 Tova Safier, DNP Committee Member



**PROFESSIONAL AND UNIVERSITY SERVICE ACTIVITIES**

**Membership in Professional Organizations**

2024- International Society on Sarcopenia, Cachexia and Wasting Disorders Member

2022- Precision Medicine Interest Group, Metabolomics Association of America Member

2021- Metabolomics Association of North America Early Career Investigators Member

2019-22 NRG Oncology New Investigators Committee Member

2017-20 American College of Epidemiology Member

2017-19 American College of Epidemiology Associate Leadership Committee Member

2017-19 American College of Epidemiology Publications Committee Member

2015- American Association of Cancer Research Member

2015- Society for Epidemiologic Research Member

**Manuscript Reviewer**

2024- Scientific Reports Reviewer

2024- BMC Cancer Reviewer

2024- European Journal of Oncology Nursing Reviewer

2023- Clinical and Translational Medicine Reviewer

2023- Western Journal of Nursing Research Reviewer

2022- Clinical Cancer Research Reviewer

2022- Biological Research for Nursing Reviewer

2022- Head & Neck Reviewer

2022- Translational Cancer Research Reviewer

2021- Journal of National Cancer Institute Reviewer

2019- Human Genetics Reviewer

2017- Cancer Prevention Research Reviewer

2017- Cancer Epidemiology Biomarkers & Prevention Reviewer

2015- Cancer Causes and Control Reviewer

2015- Biometrical Reviewer

2011- Annals of Epidemiology Reviewer

2010- American Journal of Epidemiology Reviewer

**National Service**

2021- NRG Oncology Head and Neck Ancillary Projects Committee Reviewer

**Emory University Service**

2024 Georgia CTSA KL2 Grant Review Committee Member

2020-23 Georgia CTSA Postdoctoral TL1 Grant Review Committee Member

2022 Health Professions Readiness Education Program (HealthPrep) Panelist

2021 Emory SCORE Grant Review Committee Reviewer

2019 Ethics of Machine Learning, Academic Learning Community Member

2008-10 Emory University Student Outbreak and Response Team President

**Nell Hodgson Woodruff School of Nursing Service**

2025- BS in Health Sciences Curriculum Development Member

2024-25 Program Evaluation Committee Member

2022-25 PhD Program Qualifying Exam Committee Member

2021-25 PhD Faculty Member

2021-22 Office of Nursing Research Mock Review Reviewer

2021 Strategic Initiative Innovation Committee Member

**Other Service**

2016 NIH Fellows Award for Research Excellence Reviewer Section Chief Judge

2015 NCI Cancer Prevention Fall Symposium Committee Member

2014-16 NCI Cancer Prevention Fellowship Program Methods & Training Committee Co-Chair

2014-16 NCI DCEG Fellows Manuscript Editorial Board Member

2014-15 NCI Cancer Prevention Fellowship Program Summer Course Discussion Leader

2008 Champaign-Urbana Public Health District Intern



**PROFESSIONAL TRAINING ACTIVITIES**

**Fellowships**

2019-21 Translational Research Certificate Emory University

2017-19 Post-Doctoral Fellowship Emory University

2014-16 Post-Doctoral Fellowship NCI Cancer Prevention Fellowship Program

2012 Summer Research Fellowship MD Anderson Cancer Prevention Research Training Program

**Other Training**

2024 CITI certified for biomedical, social and behavioral research CITI

2020 Ethical, Legal & Social Issues in Research Emory CPTR

2019-20 Research Leadership and Team Science Emory CPTR

2018 Grant Proposal Writing Skills Emory NHWSN

2018 Foundations for Online Teaching-Pedagogically Sound Design Emory University

2018 Foundations for Online Teaching-Teaching Online Emory University

2017-18 High-resolution Metabolomics Analysis with xmsPANDA Emory University

2016 Causal Inference Estimation Epi Congress

2016 Mediation Analysis Epi Congress

2016 Longitudinal Structural Equation Modeling Curran-Bauer Analytic

2016 Workplace Dynamics I, II, III NIH OITE

2015 Grants and Grantsmanship Workshop NCI CPFP

2015 Scientists Teaching Science Workshop NIH OITE

2015 Molecular Laboratory Methods and Analysis NCI CPFP

2015 Grant Proposal Writing SER Annual Meeting

2015 Instrumental Variable Analysis SER Annual Meeting

2011, 2014 Molecular Cancer Prevention NCI CPFP

2011, 2014 Principles and Practice in Cancer Prevention and Control NCI CPFP

2013 Structural Equation Modeling Curran-Bauer Analytic

2012 Advanced Structural Equation Modeling Emory University

2011 Meta-Analysis Emory University

2011 Structural Equation Modeling Emory University

2011 Introductory Grant Writing Forum Emory University

2010 Teaching Assistant Training and Teaching Opportunity Emory University