
Marcia de Oliveira Otto, PhD, MS

UTHealth Houston School of Public Health

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EDUCATION

- 2010 PhD, Environmental Health, Minors in Epidemiology and Biostatistics,
UTHealth School of Public Health
Dissertation: Micronutrient intakes and their associations with markers of
inflammation, subclinical atherosclerosis, cardiovascular disease, type II diabetes
and metabolic syndrome
- 2005 MS, Environmental Sciences, University of Sao Paulo, Brazil
Thesis: Assessing lead exposure in children using teeth as bioindicator
- 2002 BS, Physics, University of Rio de Janeiro, Brazil

CONTRIBUTIONS TO SCIENCE

I am an Associate Professor of Epidemiology with expertise in chronic disease and nutritional epidemiology. My research focuses on evaluating the effects of diet quality, food groups, nutrients, and nutritional biomarkers on cardiometabolic outcomes, cognitive health, and cause-specific mortality in middle-aged and older adults to inform the development of dietary guidelines and food-is-medicine interventions. I also have expertise in quantifying the burden and determinants of suboptimal diet among cancer survivors, including identifying nutritional inadequacies and barriers to healthy eating across the cancer care continuum.

1. Quantifying the Burden of Suboptimal Diet Quality Among Cancer Survivors

My research has advanced understanding of the prevalence, determinants, and clinical implications of poor diet quality among cancer survivors. As principal investigator, I established and lead the U-DINE study, a longitudinal cohort investigating diet quality from diagnosis through long-term survivorship among individuals with oropharyngeal cancer. I developed the study infrastructure, including standardized protocols for repeated 24-hour dietary recalls administered by trained dietitians, and analytic approaches using validated diet quality indices (Healthy Eating Index-2020 and WCRF/AICR score) to quantify adherence to cancer prevention and dietary guidelines across the cancer care continuum. Through this work, we have generated one of the most detailed longitudinal datasets on dietary intake in this patient population, demonstrating widespread misalignment with dietary recommendations at diagnosis that persists into survivorship. Our research has also identified key barriers to healthy eating—including nutrition insecurity, treatment-related symptoms, and structural barriers to food access—highlighting important opportunities for targeted nutrition interventions within oncology care. This work provides critical evidence to inform strategies to improve diet quality and long-term health outcomes among cancer survivors.

Selected Publications

Manduchi B, Sandulache VC, Tark JY, Sharma S, Li R, Roller E, Bevelhimer A, Hutcheson KA, **de Oliveira Otto** MC. Examining the Relationship Between Dysphagia, Eating-Related Symptoms, and Diet Quality Among Oropharyngeal Cancer Patients During Critical Stages of

Cancer Survivorship: The U-DINE Study. *Head Neck*. 2025 Oct;47(10):2816-2826. PubMed Central PMCID: [PMC12354315](#).

de Oliveira Otto MC, Sandulache VC, Appana SN, Tark JY, Bach MA, Tripuraneni L, Stach CB, Fang Zhang F, Sharma S, Li R, Hutcheson KA. Disproportionate burden of poor diet quality among individuals diagnosed with oropharyngeal cancer during critical periods of cancer care: The U-DINE study. *Nutrition*. 2025 Sep;137:112820. PubMed PMID: [40440814](#).

de Oliveira Otto MS, K.; Tark, J.Y.; Sandulache, V.C.; Sharma, S.V.; Li, R.; Hutcheson, K.A. Quantifying Diet Quality Across Critical Periods of Cancer Survivorship: The U-DINE Longitudinal Study. *JoVE*. 2026;(in press)

2. Advancing the Evidence Base on Dietary Diversity and Diet Quality to Inform U.S. Dietary Guidelines. One of the most longstanding dietary recommendations is to “eat a variety of foods,” yet the scientific evidence supporting this guidance has historically been limited. My research has helped address this gap by developing and characterizing novel dietary diversity

metrics and examining their prospective associations with cardiometabolic outcomes—including central obesity, diabetes, hypertension, and cardiovascular disease—in large, multi-ethnic population studies. Building on this work, I led a comprehensive review and served as lead author of an American Heart Association Scientific Advisory evaluating the relationship between dietary diversity, eating patterns, and obesity in adults. Published in *Circulation*, this advisory synthesized the available evidence and contributed to the scientific foundation informing the 2020–2025 Dietary Guidelines for Americans.

Selected Publications

de Oliveira Otto MC, Anderson CAM, Dearborn JL, Ferranti EP, Mozaffarian D, Rao G, et al. Dietary Diversity: Implications for Obesity Prevention in Adult Populations: A Science Advisory From the American Heart Association. *Circulation*. 2018;138(11):e160-e8. PMID: 30354383

de Oliveira Otto MC, Padhye NS, Bertoni AG, Jacobs DR, Jr., Mozaffarian D. Everything in Moderation-Dietary Diversity and Quality, Central Obesity and Risk of Diabetes. *PLoS one*. 2015;10(10):e0141341. PMID: 26517708

Astrup A, Magkos F, Bier DM, Brenna JT, **de Oliveira Otto** MC, Hill JO, King JC, Mente A, Ordovas JM, Volek JS, Yusuf S, Krauss RM. Saturated Fats and Health: A Reassessment and Proposal for Food-Based Recommendations: JACC State-of-the-Art Review. *J Am Coll Cardiol*. 2020 Aug 18;76(7):844-857.

3. Elucidating the Role of Dietary Fats in Cardiometabolic and Cognitive Health

My research integrates dietary assessment, food intake data, and nutritional biomarkers to better understand how different types and sources of dietary fats influence cardiometabolic and cognitive health. Using large population-based cohorts and biomarker-informed analyses, this work has helped clarify the relationships between saturated fats, polyunsaturated fatty acids, and health outcomes. Importantly, our findings highlight the importance of the food matrix and dietary context in evaluating the health effects of saturated fat, and identify protective associations of polyunsaturated fatty acids with cardiometabolic risk. These studies have contributed to the evolving scientific understanding of dietary fats and have informed ongoing discussions on dietary fat recommendations and chronic disease prevention.

Selected Publications

de Oliveira Otto MC, Wu JHY, Thacker EL, Lai HTML, Lemaitre RN, Padhye N, Song X, King IB, Lopez O, Siscovick D, Mozaffarian D. Circulating Omega-3 and Omega-6 Fatty Acids, Cognitive Decline and Dementia in Older Adults. *J Alzheimers Dis.* 2023;95(3):965-979. doi: 10.3233/JAD-230083. PubMed PMID: 37638432.

de Oliveira Otto MC, Lemaitre RN, Song X, King IB, Siscovick DS, Mozaffarian D. Serial Measures of Circulating Biomarkers of Dairy Fat and Total and Cause-specific Mortality in Older Adults: The Cardiovascular Health Study. *Am J Clin Nutr.* 2018;108(3):476-84. PMID: 30333104.

Astrup A, Magkos F, Bier DM, Brenna JT, **de Oliveira Otto MC**, Hill JO, King JC, Mente A, Ordovas JM, Volek JS, Yusuf S, Krauss RM. Saturated Fats and Health: A Reassessment and Proposal for Food-Based Recommendations: JACC State-of-the-Art Review. *J Am Coll Cardiol.* 2020 Aug 18;76(7):844-857.

4. Gut Microbiota–Derived Metabolites and Chronic Disease Risk

Through collaborative research, I have contributed to advancing understanding of how gut microbiota–derived metabolites generated from dietary nutrients influence chronic disease risk. Using biomarker-based analyses in large population studies, our work examined circulating metabolites—including trimethylamine N-oxide (TMAO), phenylacetylglutamine (PAGln), and γ -butyrobetaine—that are produced through host–diet–microbiome interactions. These studies demonstrated associations between these metabolites and risks of cardiovascular disease, kidney disease, and cognitive decline. By integrating dietary assessment with metabolomic profiling, this work has helped clarify biological pathways linking diet, the gut microbiome, and chronic disease development. These findings contribute to a growing body of evidence highlighting the role of microbiome mediated metabolism in cardiometabolic health and informing emerging strategies for disease prevention.

Selected Publications

Budoff MJ, **de Oliveira Otto MC**, Li XS, Lee Y, Wang M, Lai HTM, Lemaitre RN, Pratt A, Tang WHW, Psaty BM, Siscovick DS, Hazen SL, Mozaffarian D. Trimethylamine-N-oxide (TMAO) and risk of incident cardiovascular events in the multi ethnic study of Atherosclerosis. *Sci Rep.* 2025 Jul 2;15(1):23362. doi: 10.1038/s41598-025-05903-3. PubMed PMID: 40603925; PubMed Central PMCID: PMC12222875

de Oliveira Otto MC, Li XS, Wang Z, Siscovick D, Newman AB, Lai HTM, Nemet I, Lee Y, Wang M, Fretts A, Lemaitre RN, Tang WHW, Lopez O, Hazen SL, Mozaffarian D. Longitudinal Associations of Plasma TMAO and Related Metabolites with Cognitive Impairment and Dementia in Older Adults: The Cardiovascular Health Study. *J Alzheimers Dis.* 2022 Sep 2.

Tang WHW, Lemaitre RN, Jensen PN, Wang M, Wang Z, Li XS, Nemet I, Lee Y, Lai HTM, **de Oliveira Otto MC**, Fretts AM, Sotoodehnia N, DiDonato JA, Bäckhed F, Psaty BM, Siscovick DS, Budoff MJ, Mozaffarian D, Hazen SL. Trimethylamine N-Oxide and Related Gut Microbe-Derived Metabolites and Incident Heart Failure Development in Community-Based Populations. *Circ Heart Fail.* 2024 Aug;17(8):e011569.

HONORS AND AWARDS

- 2026 **Top Science Presentation, MD Anderson Cancer Survivorship Research Symposium.** Poster ranked among the top accepted abstracts presented at the scientific meeting.
- 2025 Selected to mentor early-stage investigators in the NIGMS/NIH-funded Career MODE Training Program (PI: Valeri; Columbia University)
- 2024 Selected for the Data and Safety Monitoring Board, National Institute of Dental and Craniofacial Research.
- 2021 **6th American Health Association Annual Foodscape Innovation Summit and Workshop.** Selected to collaborate with approximately 50 leaders in food, nutrition, and health equity to discuss strategies to promote health equity through bridging food systems.
- 2020 **Expert Workshop on Saturated Fat and Health: A Nutrient or Food Approach.** Washington, D.C. Selected to join world-leading scientists to provide a summary recommendation on health effects of saturated fats to the Dietary Guidelines of Americans expert panel. Received a stipend.
- 2020 **2020-25 Dietary Guidelines for Americans Advisory Committee Meeting.** Invited to represent the American Heart Association.
- 2019 **Top Science Presented at AHA Epi/Lifestyle Scientific Sessions.** Abstract ranked among the top 10 percent of accepted abstracts presented at the AHA Epi/Lifestyle Scientific Sessions.
- 2018 **American Heart Association Research Leaders Academy**
- 2017 **Fellow of the American Heart Association**
- 2012 **Harvard-Bunge Fellowship Program in Nutrition & Health,** Harvard School of Public Health
- 2012 **Finalist, Outstanding Postdoctoral Research on Cardiovascular Epidemiology,** Harvard School of Public Health
- 2011 **Fellowship Award,** Cancer Prevention Research Institute of Texas, UT Health Innovation Training Program
- 2010 **G. Roger Florky Scholarship,** The University of Texas School of Public Health, Houston, TX
- 2006 **Texas Water Pollution Control Association Scholarship,** The University of Texas School of Public Health, Houston, TX
- 2005 **Graduated with Honors and Distinction,** University of Sao Paulo, Brazil
- 2003 **PROCAM Scholarship,** University of Sao Paulo Brazil

PROFESSIONAL EXPERIENCE

Faculty Appointments

- 2022–present **Associate Professor** with tenure, Department of Epidemiology, Human Genetics and Environmental Sciences, UTHealth School of Public Health, Houston, TX
- 2018–2022 **Assistant Professor**, tenure-track, Department of Epidemiology, Human Genetics and Environmental Sciences, UTHealth School of Public Health, Houston, TX
- 2014–2018 **Assistant Professor**, non-tenure track, Department of Epidemiology, Human Genetics and Environmental Sciences, UTHealth School of Public Health

Postdoctoral Training and Research Positions

- 2012–2014 **Harvard School of Public Health**, Boston, MA
Postdoctoral Fellowship in Nutritional and Cardiovascular Epidemiology
Mentor: Dariush Mozaffarian, MD, PhD
- 2011 **UTHealth School of Public Health**, Houston, TX
Postdoctoral Fellow, UTHealth Innovation Training Program
Mentor: David Loose, PhD
- 2009–2010 **University of Texas Health School of Public Health**, Houston, TX
Graduate Research Assistant, Department of Epidemiology, Human Genetics and Environmental Sciences
- 2006–2009 **University of Texas Health School of Public Health**
Graduate Research Assistant, Center for Nursing Research
- 2008 The University of Texas MD Anderson Cancer Center
Trainee, Cancer Prevention Research Training Summer Program
- 2006–2007 **University of Texas Health School of Public Health**
Graduate Research Assistant, Houston Exposure to Air Toxics Study (H.E.A.T.S.), Division of Occupational and Environmental Health Sciences
- 2005–2006 **University of Texas Health School of Public Health**
Graduate Research Assistant, Environmental Health and Safety Program

PEER-REVIEWED PUBLICATIONS

1. de Oliveira Otto MC, Sandulache K, Tark JY, Sandulache VC, Sharma SV, Li R, Hutcheson KA. Quantifying Diet Quality Across Critical Periods of Cancer Survivorship: A Longitudinal Study. *J Vis Exp*. 2026 Sep 29. doi: 10.3791/70978.
2. Li XS, Wang M, Wang Z, Fan B, Tian MY, Filippazzo J, Lee Y, Mallela DP, Mao K, Liu Y, Lemaitre RN, Xie V, Diaz E, DiDonato JA, Tang WHW, de Oliveira Otto MC, Budoff MJ, Owens AP 3rd, Newman AB, Cameron SJ, Siscovick DS, Lusk AJ, Mozaffarian D, Hazen SL. Gut microbe-generated metabolite trimethylamine N-oxide and risk of abdominal aortic aneurysm: a cohort study. *Eur Heart J*. 2026 Jul 15. doi:

- 10.1093/eurheartj/ehag489. Epub ahead of print. PMID: 42455761; PMCID: PMC13630272.
3. Sharma S, Tice N, Almohamad M, Hoelscher DM, Macias-Navarro L, Gibson W, Cruz M, Gaminian A, Pomeroy M, Galvan E, Ackerman MM, Chuang RJ, de Oliveira Otto MC, van den Berg AE, Markham C, Bily M, Leke EB, Berens PD, Ranjit N. Call for Using Behavioral Science Theory for Design and Evaluation of Food Is Medicine Interventions: A Perspective Using a Case Study Approach. *J Nutr Educ Behav*. 2026 May;58(5):501-506. doi: 10.1016/j.jneb.2026.01.015. Epub 2026 Feb 18. PMID: 41711610.
 4. Waller DK, Miao Z, Benjamin RH, Finnell R, Dass NLM, Nestoridi E, de Oliveira Otto MC, Peterson J, Ramadhani T, Canfield MA. Maternal Fish Intake in the Year Prior to Conception and Birth Defects, National Birth Defects Prevention Study, 1997-2011. *Birth Defects Res*. 2026 May;118(5):e70053. doi: 10.1002/bdr2.70053. PMID: 42089396; PMCID: PMC13147488.
 5. Wang M, Tang WHW, Li XS, de Oliveira Otto MC, Lemaitre RN, Fretts A, Nemet I, Sotoodehnia N, Sitlani CM, Budoff M, DiDonato JA, Wang Z, Siscovick DS, Sarnak MJ, Mozaffarian D, Hazen SL. Associations of Plasma Trimethylamine N-Oxide-Related Metabolites with the Development and Progression of Albuminuria: The Multiethnic Study of Atherosclerosis. *Clin J Am Soc Nephrol*. 2025 Nov 1;20(11):1549-1563. doi: 10.2215/CJN.0000000812. Epub 2025 Sep 25. PMID: 40996814; PMCID: PMC12614857.
 6. de Oliveira Otto MC, Sandulache VC, Appana SN, Tark JY, Bach MA, Tripuraneni L, Stach CB, Fang Zhang F, Sharma S, Li R, Hutcheson KA. Disproportionate burden of poor diet quality among individuals diagnosed with oropharyngeal cancer during critical periods of cancer care: The U-DINE study. *Nutrition*. 2025 Sep;137:112820. doi: 10.1016/j.nut.2025.112820. Epub 2025 Apr 26. PMID: 40440814.
 7. Budoff MJ, de Oliveira Otto MC, Li XS, Lee Y, Wang M, Lai HTM, Lemaitre RN, Pratt A, Tang WHW, Psaty BM, Siscovick DS, Hazen SL, Mozaffarian D. Trimethylamine-N-oxide (TMAO) and risk of incident cardiovascular events in the multi ethnic study of Atherosclerosis. *Sci Rep*. 2025 Jul 2;15(1):23362. doi: 10.1038/s41598-025-05903-3. PMID: 40603925; PMCID: PMC12222875.
 8. Manduchi B, Sandulache VC, Tark JY, Sharma S, Li R, Roller E, Bevelhimer A, Hutcheson KA, de Oliveira Otto MC. Examining the Relationship Between Dysphagia, Eating-Related Symptoms, and Diet Quality Among Oropharyngeal Cancer Patients During Critical Stages of Cancer Survivorship: The U-DINE Study. *Head Neck*. 2025 Oct;47(10):2816-2826. doi: 10.1002/hed.28206. Epub 2025 Jun 2. PMID: 40452385; PMCID: PMC12354315.
 9. Tark JY, Li R, Yu B, Wood AC, Padhye NS, de Oliveira Otto MC. Dietary Intake of Protein by Food Source and Incident Hypertension Among Diverse US Adults: The MESA Study. *J Am Heart Assoc*. 2025 May 20;14(10):e037813. doi: 10.1161/JAHA.124.037813. Epub 2025 Apr 10. PMID: 40207538; PMCID: PMC12184573.
 10. Zhang X, Rahbar MH, Tahanan A, Bauer C, de Oliveira Otto MC, Morrison AC, Reininger B, Fernandez ME. An application of minimization for ensuring balanced study arms in a group-randomized COVID-19 educational intervention trial. *Contemp Clin Trials Commun*. 2025 Apr;44:101438. doi: 10.1016/j.conctc.2025.101438. Epub 2025 Jan 22. PMID: 39935750; PMCID: PMC11810699.

11. Zhang K, Hunyadi JV, de Oliveira Otto MC, Lee M, Zhang Z, Ramphul R, Yamal JM, Yaseen A, Morrison AC, Sharma S, Rahbar MH, Zhang X, Linder S, Marko D, Roy RW, Banerjee D, Guajardo E, Crum M, Reininger B, Fernandez ME, Bauer C. Increasing COVID-19 Testing and Vaccination Uptake in the Take Care Texas Community-Based Randomized Trial: Adaptive Geospatial Analysis. *JMIR Form Res.* 2025 Feb 11;9:e62802. doi: 10.2196/62802. PMID: 39935005; PMCID: PMC11835599.
12. Tark JY, Li R, Yu B, Wood AC, Padhye NS, de Oliveira Otto MC. Protein Consumption and Risk of CVD Among U.S. Adults: The Multi-Ethnic Study of Atherosclerosis (MESA). *Nutrients.* 2024 Nov 2;16(21). doi: 10.3390/nu16213773. PMID: 39519606; PMCID: PMC11548220.
13. Tang WHW, Lemaitre RN, Jensen PN, Wang M, Wang Z, Li XS, Nemet I, Lee Y, Lai HTM, de Oliveira Otto MC, Fretts AM, Sotoodehnia N, DiDonato JA, Bäckhed F, Psaty BM, Siscovick DS, Budoff MJ, Mozaffarian D, Hazen SL. Trimethylamine N-Oxide and Related Gut Microbe-Derived Metabolites and Incident Heart Failure Development in Community-Based Populations. *Circ Heart Fail.* 2024 Aug;17(8):e011569. doi: 10.1161/CIRCHEARTFAILURE.124.011569. Epub 2024 Aug 9. PMID: 39119698; PMCID: PMC11335438.
14. Moseholm KF, Cronjé HT, Koch M, Fitzpatrick AL, Lopez OL, de Oliveira Otto MC, Longstreth WT Jr, Hoofnagle AN, Mukamal KJ, Lemaitre RN, Jensen MK. Circulating sphingolipids in relation to cognitive decline and incident dementia: The Cardiovascular Health Study. *Alzheimers Dement (Amst).* 2024 Jul-Sep;16(3):e12623. doi: 10.1002/dad2.12623. Epub 2024 Aug 8. PMID: 39130802; PMCID: PMC11310412.
15. Wang M, Tang WHW, Li XS, de Oliveira Otto MC, Lee Y, Lemaitre RN, Fretts A, Nemet I, Sotoodehnia N, Sitlani CM, Budoff M, DiDonato JA, Wang Z, Bansal N, Shlipak MG, Psaty BM, Siscovick DS, Sarnak MJ, Mozaffarian D, Hazen SL. The Gut Microbial Metabolite Trimethylamine N-oxide, Incident CKD, and Kidney Function Decline. *J Am Soc Nephrol.* 2024 Jun 1;35(6):749-760. doi: 10.1681/ASN.0000000000000344. Epub 2024 May 9. PMID: 38593157; PMCID: PMC11164118.
16. de Oliveira Otto MC, Wu JHY, Thacker EL, Lai HTM, Lemaitre RN, Padhye N, Song X, King IB, Lopez O, Siscovick DS, Mozaffarian D. Circulating Omega-3 and Omega-6 Fatty Acids, Cognitive Decline, and Dementia in Older Adults. *J Alzheimers Dis.* 2023;95(3):965-979. doi: 10.3233/JAD-230083. PMID: 37638432; PMCID: PMC10765383.
17. Lemaitre RN, Jensen PN, Wang Z, Fretts AM, Sitlani CM, Nemet I, Sotoodehnia N, de Oliveira Otto MC, Zhu W, Budoff M, Longstreth WT, Psaty BM, Siscovick DS, Hazen SL, Mozaffarian D. Plasma Trimethylamine-N-Oxide and Incident Ischemic Stroke: The Cardiovascular Health Study and the Multi-Ethnic Study of Atherosclerosis. *J Am Heart Assoc.* 2023 Aug 15;12(16):e8711. doi: 10.1161/JAHA.122.029230. Epub 2023 Aug 10. PMID: 37581385; PMCID: PMC10492960.
18. Wang M, Li XS, Wang Z, de Oliveira Otto MC, Lemaitre RN, Fretts A, Sotoodehnia N, Budoff M, Nemet I, DiDonato JA, Tang WHW, Psaty BM, Siscovick DS, Hazen SL, Mozaffarian D. Trimethylamine N-oxide is associated with long-term mortality risk: the multi-ethnic study of atherosclerosis. *Eur Heart J.* 2023 May 7;44(18):1608-1618. doi: 10.1093/eurheartj/ehad089. PMID: 36883587; PMCID: PMC10411925.

19. de Oliveira Otto MC, Li XS, Wang Z, Siscovick DS, Newman AB, Lai HTM, Nemet I, Lee Y, Wang M, Fretts A, Lemaitre RN, Tang WHW, Lopez O, Hazen SL, Mozaffarian D. Longitudinal Associations of Plasma TMAO and Related Metabolites with Cognitive Impairment and Dementia in Older Adults: The Cardiovascular Health Study. *J Alzheimers Dis.* 2022;89(4):1439-1452. doi: 10.3233/JAD-220477. PMID: 36057823; PMCID: PMC9720755.
20. de Oliveira Otto MC, Brito FA, Tark JY, Bakota E, Yamal JM, Marko D, Sharma SV, Brown MR, Appana SN, Rector AM, Linder SH, Kiger J, Tseng KC, Morrison AC, Boerwinkle E. Case growth analysis to inform local response to COVID-19 epidemic in a diverse U.S community. *Sci Rep.* 2022 Oct 4;12(1):16217. doi: 10.1038/s41598-022-20502-2. PMID: 36195771; PMCID: PMC9532394.
21. Wang M, Wang Z, Lee Y, Lai HTM, de Oliveira Otto MC, Lemaitre RN, Fretts A, Sotoodehnia N, Budoff M, DiDonato JA, McKnight B, Tang WHW, Psaty BM, Siscovick DS, Hazen SL, Mozaffarian D. Dietary Meat, Trimethylamine N-Oxide-Related Metabolites, and Incident Cardiovascular Disease Among Older Adults: The Cardiovascular Health Study. *Arterioscler Thromb Vasc Biol.* 2022 Sep;42(9):e273-e288. doi: 10.1161/ATVBAHA.121.316533. Epub 2022 Aug 1. PMID: 35912635; PMCID: PMC9420768.
22. Yamal JM, Appana S, Wang M, Leon-Novelo L, Bakota E, Ye Y, Sharma S, Morrison AC, Marko D, Linder SH, Rector A, Jetelina KK, Boerwinkle E, de Oliveira Otto MC. Trends and Correlates of Breakthrough Infections With SARS-CoV-2. *Front Public Health.* 2022;10:856532. doi: 10.3389/fpubh.2022.856532. Epub 2022 May 10. PMID: 35619825; PMCID: PMC9127615.
23. Fretts AM, Hazen SL, Jensen P, Budoff M, Sitlani CM, Wang M, de Oliveira Otto MC, DiDonato JA, Lee Y, Psaty BM, Siscovick DS, Sotoodehnia N, Tang WHW, Lai H, Lemaitre RN, Mozaffarian D. Association of Trimethylamine N-Oxide and Metabolites With Mortality in Older Adults. *JAMA Netw Open.* 2022 May 2;5(5):e2213242. doi: 10.1001/jamanetworkopen.2022.13242. PMID: 35594043; PMCID: PMC9123496.
24. Tortolero GA*, de Oliveira Otto MC, Ramphul R, Yamal JM, Rector A, Brown M, Peskin MF, Mofleh D, Boerwinkle E. Examining Social Vulnerability and the Association With COVID-19 Incidence in Harris County, Texas. *Front Public Health.* 2021;9:798085. doi: 10.3389/fpubh.2021.798085. Epub 2022 Jan 5. PMID: 35071172; PMCID: PMC8767157.
25. Lemaitre RN, Jensen PN, Wang Z, Fretts AM, McKnight B, Nemet I, Biggs ML, Sotoodehnia N, de Oliveira Otto MC, Psaty BM, et al. Association of Trimethylamine N-Oxide and Related Metabolites in Plasma and Incident Type 2 Diabetes: The Cardiovascular Health Study. *JAMA Netw Open.* 2021;4(8). doi: 10.1001/jamanetworkopen.2021.22844.
26. Lee Y, Nemet I, Wang Z, Lai HTM, de Oliveira Otto MC, Lemaitre RN, et al. Longitudinal Plasma Measures of Trimethylamine N-Oxide and Risk of Atherosclerotic Cardiovascular Disease Events in Community-Based Older Adults. *J Am Heart Assoc.* 2021;10(17). doi: 10.1161/JAHA.120.020646.
27. Bockus LB, Biggs ML, Lai HTM, de Oliveira Otto MC, et al. Assessment of Plasma Phospholipid Very-long-chain Saturated Fatty Acid Levels and Healthy Aging: The Cardiovascular Health Study. *JAMA Netw Open.* 2021;4(8):e2120616.

28. Tortolero GA*, Brown MR, Sharma SV, de Oliveira Otto MC, et al. Leveraging a health information exchange for analyses of COVID-19 outcomes including an example application using smoking history and mortality. *PLoS One*. 2021. <https://doi.org/10.1371/journal.pone.0247235>
29. Astrup A, Magkos F, Bier DM, Brenna JT, de Oliveira Otto MC, Hill JO, King JC, Mente A, Ordovas JM, Volek JS, Yusuf S, Krauss RM. Saturated Fats and Health: A Reassessment and Proposal for Food-Based Recommendations: JACC State-of-the-Art Review. *J Am Coll Cardiol*. 2020 Aug 18;76(7):844-857.
30. Rodriguez LA, Jin Y, Talegawkar SA, de Oliveira Otto MC, Kandula NR, Herrington DM, Kanaya AM. Differences in Diet Quality among Multiple US Racial/Ethnic Groups from the Mediators of Atherosclerosis in South Asians Living in America (MASALA) Study and the Multi-Ethnic Study of Atherosclerosis (MESA). *J Nutr*. 2020 Jun 1;150(6):1509-1515. doi: 10.1093/jn/nxaa050. PubMed PMID: 32133497; PubMed Central PMCID: PMC7269747.
31. Richey SA, Capezuti E, Cron SG, Reed D, Torres-Vigil I, de Oliveira Otto MC. Development and Testing of the Pain Assessment Tool in Cognitively Impaired Elders (PATCIE): Nonverbal Pain Behaviors in African American and Caucasian Nursing Home Residents with Dementia. *Pain Manag Nurs*. 2020 Apr;21(2):187-193. doi: 10.1016/j.pmn.2019.08.004. Epub 2019 Oct 8. PubMed PMID: 31604681.
32. Lai HT, de Oliveira Otto MC, Lemaitre RN, McKnight B, Song X, King IB, et al. Serial Plasma Phospholipid Fatty Acids in the De Novo Lipogenesis Pathway and Total Mortality, Cause-Specific Mortality, and Cardiovascular Diseases in the Cardiovascular Health Study. *J Am Heart Assoc*. 2019 Nov 19;8(22).
33. Astrup A, Bertram H, Bonjour JP, de Groot L, de Oliveira Otto MC et. al The WHO Draft Guidelines on Dietary Saturated and Trans-fatty Acids: Time for a New Approach? *BMJ* 2019;366:l4137.
34. Marklund M, Wu JHY, Imamura F, Del Gobbo LC, Fretts A, de Goede J, de Oliveira Otto MC et al. Biomarkers of Dietary Omega-6 Fatty Acids and Incident Cardiovascular Disease and Mortality: An Individual-Level Pooled Analysis of 30 Cohort Studies. *Circulation*. 2019. PMID: 30971107.
35. Smith HS*, Swint JM, Lalani SR, Yamal JM, de Oliveira Otto MC, Castellanos S, et al. Clinical Application of Genome and Exome Sequencing as a Diagnostic Tool for Pediatric Patients: a Scoping Review of the Literature. *Genetics in Medicine: Official Journal of the American College of Medical Genetics*. 2019;21(1):3-16. PMID: 29760485.
36. de Oliveira Otto MC, Anderson CAM, Dearborn JL, Ferranti EP, Mozaffarian D, Rao G, et al. Dietary Diversity: Implications for Obesity Prevention in Adult Populations: A Science Advisory From the American Heart Association. *Circulation*. 2018;138(11):e160-e8. PMID: 30354383
37. de Oliveira Otto MC, Lemaitre RN, Song X, King IB, Siscovick DS, Mozaffarian D. Serial Measures of Circulating Biomarkers of Dairy Fat and Total and Cause-specific Mortality in Older Adults: The Cardiovascular Health Study. *Am J Clin Nutr*. 2018;108(3):476-84. PMID: 30333104.

38. de Oliveira Otto MC, Lemaitre RN, Sun Q, King IB, Wu JHY, Manichaikul A, et al. Genome-wide Association Meta-Analysis of Circulating Odd-numbered Chain Saturated Fatty Acids: Results from the CHARGE Consortium. *PLoS One*. 2018;13(5):e0196951. PMID: 29738550
39. Lai HT, de Oliveira Otto MC, Lemaitre RN, McKnight B, Song X, King IB, et al. Serial Circulating Omega 3 Polyunsaturated Fatty Acids and Healthy Ageing Among Older Adults in the Cardiovascular Health Study: Prospective Cohort Study. *BMJ*. 2018;363:k4067. PMID: 30333104
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43. Wu JHY, Marklund M, Imamura F, Tintle N, Ardisson Korat AV, de Goede J, de Oliveira Otto MC, et al. Omega-6 Fatty Acid Biomarkers and Incident Type 2 Diabetes: Pooled Analysis of Individual-level Data for 39 740 Adults from 20 Prospective Cohort Studies. *Lancet Diabetes Endocrinol*. 2017;5(12):965-74. PMID: 29032079
44. Imamura F, Micha R, Wu JH, de Oliveira Otto MC, Otite FO. Effects of Saturated Fat, Polyunsaturated Fat, Monounsaturated Fat, and Carbohydrate on Glucose-Insulin Homeostasis: A Systematic Review and Meta-analysis of Randomised Controlled Feeding Trials. *PLoS Medicine* 2016;13(7):e1002087. PMID: 27434027
45. de Oliveira Otto MC, Afshin A, Micha R, Khatibzadeh S, Fahimi S, Singh G, et al. The Impact of Dietary and Metabolic Risk Factors on Cardiovascular Diseases and Type 2 Diabetes Mortality in Brazil. *PLoS one*. 2016;11(3):e0151503. PMID: 26990765
46. de Oliveira Otto MC, Padhye NS, Bertoni AG, Jacobs DR, Jr., Mozaffarian D. Everything in Moderation-Dietary Diversity and Quality, Central Obesity and Risk of Diabetes. *PLoS one*. 2015;10(10):e0141341. PMID: 26517708
47. de Oliveira Otto MC, Wu JH, Baylin A, Vaidya D, Rich SS, Tsai MY, et al. Circulating and Dietary Omega-3 and Omega-6 Polyunsaturated Fatty Acids and Incidence of CVD in the Multi-Ethnic Study of Atherosclerosis. *Journal of the American Heart Association*. 2013;2(6):e000506. PMID: 24351702
48. de Oliveira Otto MC, Nettleton JA, Lemaitre RN, L MS, Kromhout D, Rich SS, et al. Biomarkers of Dairy Fatty Acids and Risk of Cardiovascular Disease in the Multi-Ethnic Study Of Atherosclerosis. *Journal of the American Heart Association*. 2013;2(4):e000092. PMID: 23868191

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50. Mozaffarian D, Wu JH, de Oliveira Otto MC, Sandesara CM, Metcalf RG, Latini R, et al. Fish Oil and Post-operative Atrial Fibrillation: A Meta-analysis of Randomized Controlled Trials. *J Am Coll Cardiol.* 2013;61(21):2194-6. PMID: 23541970
51. Tanaka T, Ngwa JS, van Rooij FJ, Zillikens MC, Wojczynski MK, Frazier-Wood AC, de Oliveira Otto MC, et al. Genome-wide Meta-analysis of Observational Studies Shows Common Genetic Variants Associated with Macronutrient Intake. *Am J Clin Nutr.* 2013;97(6):1395-402. PMID: 23636237
52. Del Gobbo LC, Imamura F, Wu JH, de Oliveira Otto MC, Chiuve SE, Mozaffarian D. Circulating and Dietary Magnesium and Risk of Cardiovascular Disease: A Systematic Review and Meta-analysis of Prospective Studies. *Am J Clin Nutr.* 2013;98(1):160-73. PMID: 23719551
53. Yamamoto KT, Robinson-Cohen C, de Oliveira MC, Kostina A, Nettleton JA, Ix JH, de Oliveira MC, et al. Dietary Phosphorus Is Associated with Greater Left Ventricular Mass. *Kidney Int.* 2013;83(4):707-14. PMID: 23283134
54. de Oliveira Otto MC, Alonso A, Lee DH, Delclos GL, Bertoni AG, Jiang R, et al. Dietary Intakes of Zinc and Heme Iron from Red Meat, but Not from Other Sources, Are Associated with Greater Risk of Metabolic Syndrome and Cardiovascular Disease. *J Nutr.* 2012;142 526-533:526-33. PMID: 22259193
55. de Oliveira Otto MC, Mozaffarian D, Kromhout D, Bertoni AG, Sibley CT, Jacobs DR, Jr., et al. Dietary Intake of Saturated Fat by Food Source and Incident Cardiovascular Disease: The Multi-Ethnic Study of Atherosclerosis. *Am J Clin Nutr.* 2012;96(2):397-404. PMID: 22760560
56. de Oliveira Otto MC, Alonso A, Lee DH, Delclos GL, Jenny NS, Jiang R, et al. Dietary Micronutrient Intakes Are Associated with Markers of Inflammation, but Not with Markers of Subclinical Atherosclerosis. *Journal of Nutrition.* 2011;141:1508-15. PMID: 21653577
57. Arruda-Neto JD, de Oliveira MC, Sarkis JE, Bordini P, Manso-Guevara MV, Garcia F, et al. Study of Environmental Burden of Lead in Children Using Teeth as Bioindicator. *Environment International.* 2009;35(3):614-8. PMID: 19167075

LETTERS TO EDITOR

58. de Oliveira Otto MC, Mozaffarian D. Reply to H Kahleova and ND Barnard. *Am J Clin Nutr.* 2018;109(1):220-221.
59. de Oliveira Otto MC, Alonso A, Lee DH, Delclos GL, Bertoni AG, Jiang R, et al. Reply to Brownstein. *Journal of Nutrition.* 2012; 142(10): 1918.

INVITED PUBLICATIONS

60. Perkison WB, Adekanye JA, de Oliveira Otto MC. Dietary Interventions and Type 2 Diabetes in Youth: A Fresh Look at the Evidence. *Current Nutrition Reports.* 2018;7(4):227-34. PMID: 30155750

61. Baer DJ, Rice Bradley BH, Kris-Etherton P, Mente A, de Oliveira Otto M. Insights and Perspectives on Dietary Modifications to Reduce the Risk of Cardiovascular Disease. *Advances in Nutrition* (Bethesda, MD). 2014;5(5):553-5. PMID: 25469391
62. de Oliveira Otto MC. Risk Factors for Cardiovascular Disease in Brazil: Time Trends and Current Status. *Dialogue Series Swiss Re Centre for Global Dialogue* 2014; 23-28.

CURRENT RESEARCH SUPPORT

BHSA CA200908 (2021–2026) Agency: DoD \$984,470
 Project: **Uncovering the long-term impact of oropharyngeal cancer and dysphagia on dietary quality and nutrition among veteran cancer survivors: The U-DINE Study**
 Goal: To assess diet quality in cancer survivors, developing and implement evidence-based, cancer-specific programs and strategies to improve quality of life.
 Role: Principal Investigator (PI)
 Total Indirect Costs: \$316,173

Harris Cares – Embrace Hope COVID-19 Analytics Harris County (2020-2022)
 Agency: HCPHES \$201,385
 Project: Strengthen disease surveillance by quantifying dynamics, patterns, disparities and trends in SARS-CoV-2 testing, infection and vaccination among individuals living in the Greater Houston
 Role: Co-I
 Total Indirect Costs: \$20,138

Aromatic Amino Acids Microbiome-Generated Metabolites and Incident Subclinical and Clinical CVD and Mortality (2023-2026)

Agency: NIH/NHLBI \$1,387,637

Goal: The major goals of the project are to investigate the relationships of AAA-derived microbial metabolites with the onset and progression of subclinical cardiovascular disease (CVD), incident CVD, and total mortality among middle-aged and older U.S. adults.
 Role: co-I, site PI

COMPLETED RESEARCH SUPPORT

Evaluating disparities and trends in COVID-19 to inform public health action in Fort Bend County (2020-2022) Agency: Fort Bend County \$122,757
 Goal: Describe patterns, disparities and trends in SARS-CoV-2 testing, infection and vaccination in Fort Bend County, TX
 Role: co-I
 Total Indirect Costs: \$11,200

Rapid Acceleration of Diagnostics Underserved Populations (RADx-UP), Center for Clinical and Translational Sciences (CCTS) (2017–2022) Agency: NIH \$3,245,280
 Goal: Understand COVID-19 testing patterns among underserved and vulnerable populations; strengthen the data on disparities in infection rates, disease progression, and outcomes; and develop strategies to reduce the disparities in COVID-19 testing.

Role: Co-PI

Total Indirect Costs: \$1,317,000

6 U3SHS45319-01-01

11/01/2021–10/31/2022

HRSA

\$10,345,056

Community-Based Workforce to Increase COVID-19 Vaccinations in Underserved Communities

This project builds on existing infrastructure in three Texas regions (Houston/Harris County, South Texas, and Northeast Texas) and works State-wide to mobilize and train community outreach workers, patient navigators, and other workers to: 1) educate, motivate, and facilitate access to COVID-19 vaccinations, 2) expand available resources for vaccination in communities with greatest needs, and 3) build a long-term sustainable model for addressing COVID-19 related disparities that can be leveraged for the prevention and control of other diseases.

Scientist Development Award (2017–2021) Agency: AHA

\$209,700

Project: Everything in moderation? Dietary diversity, diet quality and cardiovascular health

Goal: examine role of diet diversity for diet quality and risk of cardiovascular disease in middle-aged adults.

Role: PI

Total Indirect Costs: \$20,970

R01HL135920 (2018–2021)

Agency: NIH

\$130,000

Project: TMAO and initiation, extent, and clinical onset of atherosclerotic cardiovascular disease

Goal: To investigate associations of serial measures of TMAO with initiation, extent, and onset of atherosclerosis and clinical cardiovascular disease in two prospective community-based US cohort studies.

Role: Subcontract PI

Total Indirect Costs: \$68,224.00

FOTE (2020–2021)

Agency: SPH

\$25,000

Project: Addressing Long-Term Adverse Effects of Treatment-Related Dysphagia among Head and Neck Cancer Survivors through Nutrition

Goal: to obtain funding to support a study aiming to characterize diet quality and malnutrition in oropharyngeal cancer patients, from diagnosis through long-term survivorship, and to investigate how specific complications resulting from tumor and/or treatment affect diet quality in OPC patients and survivors.

Role: PI

Total Indirect Costs: \$0

3R01HL085710-07S1 (2014–2017)

Agency: NIH

\$270,000

Project: Circulating dietary & metabolic fatty acids, major CVD outcomes, & healthy aging

Goal: Investigate the association between dietary and metabolic fatty acids with cognitive decline, dementia, and total mortality in older US adults. The research supplement award expands the scope of the parent R01 research grant (PI: Mozaffarian) investigating associations of key circulating fatty acids with incident cardiovascular disease and healthy aging.

Role: Recipient and PI of research supplement award

Total Indirect Costs: \$44,705

Global Health Research Fund (2013) Agency: Harvard-Swiss Re Program \$20,000
Goal: Determine the impact of suboptimal diet and metabolic risk factors on mortality due to cardiovascular and metabolic disease in Brazil.
Role: PI
Total Indirect Costs: \$0

INVITED TALKS AND PRESENTATIONS

National and International

Greater Plant Protein Intake and Diversity, but Not Animal Protein, Are Associated With Lower Malnutrition Risk Among Individuals With Oropharyngeal Cancer. *American Society for Nutrition (Nutrition 2026)*, National Harbor, MD, July 2026. (Invited presentation; upcoming event.)

Poor Diet Quality Across the Oropharyngeal Cancer Survivorship Continuum: Findings from the U-DINE Study. *MD Anderson Cancer Survivorship Research Symposium*, Houston, TX, February 2026.

Quantifying Suboptimal Diet Quality among Oropharyngeal Cancer Survivors in Two Cohorts: Interim Findings from the U-DINE Study. *11th International Conference on Head and Neck Cancer, American Head and Neck Society*, Montreal, Canada, July 2023.

Healthy Davis Together: Working to Prevent the Spread of COVID-19. Invited presentation on collaborative COVID-19 response efforts in Harris County with Dana Wiltz-Beckham, Director, Office of Epidemiology, Surveillance & Evaluation, Harris County Public Health. California, February 2022.

Grasas Lácteas y Salud Cardiovascular: Lecciones de Estudios Epidemiológicos. *VII Simposio Internacional de Avances en Nutrición*, Lima, Peru, November 2019.

Longitudinal Associations of Omega-3 and Omega-6 Plasma Phospholipid Polyunsaturated Fatty Acids with Dementia in Older Adults: The Cardiovascular Health Study. *American Heart Association EPI/Lifestyle Scientific Sessions*, Houston, TX, March 2019.

Circulating Dairy Fatty Acids and Total and Cause-Specific Mortality: The Cardiovascular Health Study. *American Heart Association Epidemiology and Prevention | Lifestyle and Cardiometabolic Health Scientific Sessions*, Portland, OR, March 2017.

Preventing Cardiometabolic Disease Through Diet: Novel Approaches from Epidemiologic Studies. *The Michael & Susan Dell Center for Healthy Living*, Austin, TX, August 2015.

Risk Factors for Cardiovascular Disease in Brazil: Time Trends and Current Status. *Expert Forum on Health Risk Factors in Brazil*, São Paulo, Brazil, March 2015.

The Heart Healthy Switch: Benefits and Consequences of Macronutrient Replacement in the Diet. *American Society for Nutrition Scientific Sessions and Annual Meeting at Experimental Biology*, San Diego, CA, April 2014.

Novel Metrics of Dietary Diversity and Their Associations with Change in Waist Circumference and Incident Diabetes in Multi-Ethnic US Adults. *Harvard School of Public Health*, Boston, MA, February 2014.

Diet and Cardiometabolic Disease Prevention: Using the Epidemiologic Approach to Examine Complex Relationships. *Baylor College of Medicine*, Houston, TX, December 2013.

Dairy Fats, Cardiovascular and Metabolic Diseases: Lessons from Epidemiologic Studies. *Nutrition Society of New Zealand and Nutrition Society of Australia Joint Annual Scientific Meeting*, Brisbane, Australia, December 2013.

Circulating and Dietary Seafood- and Plant-Derived Polyunsaturated Fatty Acids and Incidence of Cardiovascular Disease in the Multi-Ethnic Study of Atherosclerosis. *The American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, New Orleans, LA, March 2013.

Dietary Intake of Saturated Fat by Food Source and Incident Cardiovascular Disease: The Multi-Ethnic Study of Atherosclerosis. *Fellow and Trainee Forum in Cardiovascular Epidemiology*, Harvard School of Public Health, Boston, MA, April 2012.

SCIENTIFIC CONFERENCES

Posters Presentations and Published Abstracts

de Oliveira Otto MC, Tark JY, Tripuraneni L, Bach MA, Li R, Sharma SV, Sandulache V, Hutcheson KA. **Exploring the Role of Clinical and Dietary Risk Factors in Suboptimal Diet Quality among Patients with Oropharyngeal Cancer Across the Care Continuum.** *American Society for Nutrition Conference*, Chicago, IL, February 2024.

Hutcheson KA, Appana SN, Tark JY, Li R, Sharma SV, Stach C, Roller E, Sandulache V, de Oliveira Otto MC. **Exploring Dietary Quality and Insufficiencies in Relation to Swallow Function and Symptoms among HPV-Positive Oropharyngeal Cancer Patients.** *Dysphagia Research Society Annual Meeting*, Puerto Rico, January 2024.

de Oliveira Otto MC, Tark JY, Tripuraneni L, Bach MA, Li R, Sharma SV, Sandulache V, Hutcheson KA. **Dietary Quality and Insufficiencies among HPV-Positive Oropharyngeal Cancer Patients at Cancer Diagnosis.** *11th International Conference on Head and Neck Cancer, American Head and Neck Society*, Montreal, Canada, July 2023.

Tark JY, Heckler B, Kim H, Padhye NS, Judd SE, Safford MM, Mozaffarian D, de Oliveira Otto MC. **Dietary Diversity and Quality and Cardiovascular Disease Risk Factors in the REasons for Geographic And Racial Differences in Stroke (REGARDS) Study.** *American Heart Association EPI|Lifestyle Scientific Sessions*, 2022.

Budoff MJ, de Oliveira Otto MC, Li XS, Lee Y, Wang M, Lai HTM, Lemaitre RN, McKnight B, Tang W, Psaty BM, Siscovick DS, Hazen SL, Pratt A, Mozaffarian D. **Trimethylamine-N-oxide (TMAO) as a Predictor of Cardiovascular Events in the Multi-Ethnic Study of Atherosclerosis.** *American College of Cardiology Annual Scientific Session*, 2022.

de Oliveira Otto MC, Wu JHY, Thacker EL, Lai H, Lemaitre RN, McKnight B, et al. **Longitudinal Associations of Omega-3 and Omega-6 Plasma Phospholipid Polyunsaturated Fatty Acids with Dementia in Older Adults: The Cardiovascular Health Study.** Oral presentation at the *American Heart Association EPI/Lifestyle Scientific Sessions*, Houston, TX, March 2019.

Lai HT, de Oliveira Otto MC, Lemaitre RN, McKnight B, Song X, King IB, et al. **Serial Circulating Omega-3 Polyunsaturated Fatty Acids and Healthy Ageing among Older Adults in the Cardiovascular Health Study.** *American Heart Association EPI/Lifestyle Scientific Sessions*, New Orleans, LA, March 2018.

de Oliveira Otto MC, Lemaitre RN, Song X, King I, Siscovick D, Mozaffarian D. **Circulating Dairy Fatty Acids and Total and Cause-Specific Mortality: The Cardiovascular Health Study.** Moderated poster presentation at the *American Heart Association Epidemiology and Prevention | Lifestyle and Cardiometabolic Health Scientific Sessions*, Portland, OR, March 2017.

de Oliveira Otto MC, Padhye N, Bertoni A, Jacobs DR, Mozaffarian D. **Dietary Diversity and Quality and Change in Waist Circumference in the Multi-Ethnic Study of Atherosclerosis.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, San Francisco, CA, March 2014.

Singh GM, de Oliveira Otto MC, Mozaffarian D. **Effects of Individual Dietary Factors on Metabolic Risks Within the Context of Overall Dietary Patterns: A Systematic Review and Meta-analysis.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, San Francisco, CA, March 2014.

de Oliveira Otto MC, Wu JH, Baylin A, Vaidya D, Rich SS, Tsai MY, et al. **Circulating and Dietary Seafood- and Plant-Derived Polyunsaturated Fatty Acids and Incidence of Cardiovascular Disease in the Multi-Ethnic Study of Atherosclerosis.** Oral presentation at the *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, New Orleans, LA, March 2013.

de Oliveira Otto MC, Nettleton JA, Lemaitre RL, et al. **Biomarkers of Dairy Fatty Acids and Incidence of Cardiovascular Disease in the Multi-Ethnic Study of Atherosclerosis.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, New Orleans, LA, March 2013.

Imamura F, Micha R, Wu JH, de Oliveira Otto MC, et al. **Effects of Saturated, Polyunsaturated and Monounsaturated Fat on Blood Glucose, Insulin Sensitivity, and β -Cell Function: A Systematic Review and Meta-analysis of 84 Randomized Controlled Feeding Trials.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, New Orleans, LA, March 2013.

Del Gobbo LC, Imamura F, Wu JHY, de Oliveira Otto MC, Chiuve SE, Mozaffarian D. **Circulating and Dietary Magnesium and Risk of Cardiovascular Disease: A Systematic Review and Meta-analysis of Prospective Studies.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, New Orleans, LA, March 2013.

de Oliveira Otto MC, Jacobs DR, Mozaffarian D, et al. **Dietary Intakes of Saturated Fat and Cardiovascular Disease: Results from the Multi-Ethnic Study of Atherosclerosis.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, San Diego, CA, March 2012.

Yamamoto K, Robinson-Cohen C, de Oliveira Otto MC, et al. **Dietary Phosphorus Is Associated with Left Ventricular Mass: The Multi-Ethnic Study of Atherosclerosis.** *American Society of Nephrology Kidney Week*, Philadelphia, PA, November 2011.

de Oliveira MC, Alonso A, Lee DH, et al. **Dietary Micronutrients and Incident Metabolic Syndrome, Type II Diabetes, and Cardiovascular Disease in the Multi-Ethnic Study of Atherosclerosis.** *American Heart Association Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Scientific Sessions*, Atlanta, GA, March 2011.

de Oliveira MC, Alonso A, Lee DH, et al. **Associations of Dietary Intakes of Magnesium, Zinc, and Antioxidants with Markers of Inflammation in the Multi-Ethnic Study of Atherosclerosis (MESA).** *A.C. Camargo Global Meeting in Translational Sciences*, São Paulo, Brazil, April 2010.

de Oliveira et al. **Uranium Accumulation in Bone and Marrow of Beagle Dogs: A Metabolic Interpretation.** *V Latin American Symposium on Nuclear Physics and XXVI Reunião de Trabalho sobre Física Nuclear no Brasil*, Santos, Brazil, October 2004.

de Oliveira et al. **Monitoring of Environmental Contamination and Addressing Health Risks Through the Analysis of Teeth by Means of Nuclear Techniques.** *Fourth International Symposium on Nuclear and Related Techniques*, Havana, Cuba, August 2003.

TEACHING

- 2022–present PH2710. Epidemiology III, Lead Course Instructor. Spring Semester. Responsibility: 100%. University of Texas School of Public Health. 3 credit units.
- 2021–present PH2845. Nutritional Epidemiology I, Lead Course Instructor. Fall Semester. Responsibility: 100%. University of Texas School of Public Health. 3 credit units.
- 2019–2021 PH2615. Epidemiology II, Lead Course Instructor. Spring Semester. Responsibility: 100%. University of Texas School of Public Health. 3 credit units.
- 2014–2018 PH2615. Epidemiology II, Co-Instructor. Fall Semester. Responsibility: 50%. University of Texas School of Public Health. 3 credit units

MENTORING AND ADVISING

Post-Doctoral Fellows

Beatrice Manduchi, UTHealth School of Public Health
Ji Yun Tark, Baylor College of Medicine

Faculty & Scientists

Augusto Cesar de Moraes, Assistant Professor, UTHealth Houston School of Public Health
Carmen Ortega Santos, Assistant Professor, Milken Institute School of Public Health at The George Washington University in Washington, DC
Heidi Lai, Associate Scientist, Fatty Acid Research Institute

ADVISING**Current MPH Advisees**

Ashley Black
Jmya Hughes
Lamia Nowshin
Aakriti Pandey
Doan Tran
Erika Vasquez

Current PhD student Advisees

Najha Black
Robyn Du
Barbara Ebersole
Sepideh Sepahi

Past MPH Advisees

Riya Ghosal
Kassidy Hunt
Annika Nambiar
Hadiza Theyra-Enias
Zoabe Hafeez
Aqsa Imtiaz
Sisan Tennyson
Majda Zaied
Maryam Ajose
Aylin Diaz-Valladares
William Lightle
Connor Rollings
Serena Foster
Zoabe Hafeez
Aqsa Imtiaz
Talhatou Diallo
Guillermo Tortolero
Hannah Burrows
Roger Williams
Jacklyn Asamoah
Tanaya Deshpande

Jeffrey Brennan
Kaci French
Zackary Becker
Julie Miranda

Past Doctoral Advisees

Reginald Wills
Mackenzie Senn
Noveen Ausat
Esther Ngan
Hadley Smith
Holly McMillan
Jo Ann Monroy
Ji Yun Tark

SERVICE

University of Texas School of Public Health

2022 – Present	Member, Six Year Post-Tenure Faculty Review Committee
2017–2026	Member, UTHealth SPH Faculty Council
2020- 2026	Member, Stallones Lecture Organizing Committee
2020	Outside Reviewer, Preliminary Exam Committee, EGHES
2019	Reviewer, Sharma Scholarship Applications
2018	Reviewer CEPH Competencies for Epidemiology II
2018	Member Ad Hoc Committee, Faculty Compensation Plan
2018	Poster Evaluator, Research Day UTHealth School of Nursing
2018	Poster Evaluator, Research Day 2018 UTHealth School of Public Health
2016	Reviewer, EHGES Collaborative Mentoring Program
2017	Panel Moderator, Epidemiology I
2015	Reviewer, Preliminary Exam Committee Epidemiology

National Service

2019–2024	Member, Nutrition Committee of the Council on Lifestyle and Cardiometabolic Health of the American Heart Association
2019–present	Member, Lifestyle Scientific & Clinical Education Lifelong Learning Committee of the American Heart Association
2015–2019	Member, American Heart Association Early Career Committee
2016–2018	Chair, Writing Committee for the American Heart Association Advisory on Diet Diversity and Obesity
2025	Grant reviewer for the American Heart Association, April 2025
2025 -	Member, Data and Safety Monitoring Board, National Institute of Dental and Craniofacial (NIDCR)
2023–present 2018	Member of the Editorial Board, Journal of the American Heart Association Reviewer, Strategic Plan for NIH Nutrition Research
2017–present	Abstract Reviewer, AHA Epidemiology and Prevention/Lifestyle and Cardiometabolic Health Scientific Sessions
2018	Abstract Reviewer, Society of Epidemiologic Research Conference
2015–2016	Grant Reviewer, AHA Heart Failure Strategically Focused Research Network
2016–2018	Editor, Current Nutrition Reports
2012- present	Manuscript Reviewer for various journals

Community Service

2010- 2023	Director, Crossroads Cultural Center Houston, a nonprofit organization offering opportunities for education in the greater Houston
2015- 2021	Volunteer, The Lighthouse of Houston, a nonprofit organization providing service to blind and visually impaired individuals in the greater Houston
2023 - present	Volunteer, Casa Juan Diego, a non- profit organization serving immigrants, refugees and poor residents in the Greater Houston.
2023 - present	Member, Advisory Committee for the New York Encounter, an annual cultural event in New York City offering opportunities for education, dialogue, and friendship.

PROFESSIONAL MEMBERSHIPS

American Heart Association

American Society for Nutrition