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Education:

College:

2003 – 2007 Bachelor of Science in Chemistry, Beijing Normal University, Beijing, China

Graduate:

2007 – 2012 Doctor of Philosophy in Biochemistry and Molecular Biology, Institute for Nutritional Sciences, Chinese Academy of Sciences, Shanghai, China

Postgraduate Training:

2012 – 2016 Postdoctoral Research Fellow, Nutritional and Molecular Epidemiology, Vanderbilt University Medical Center, Nashville, TN, USA

Academic Appointments:

2016 – 2022 Assistant Professor, Division of Epidemiology, Department of Medicine, Vanderbilt University Medical Center, Nashville, TN, USA

2023 – present Associate Professor, Division of Epidemiology, Department of Medicine, Vanderbilt University Medical Center, Nashville, TN, USA

2026 – present Vanderbilt-Ingram Cancer Center (VICC) Research Program Fellow

Professional Organizations:

2013 – present The American Heart Association

2014 – present The American Society for Nutrition

2017 – present The American Diabetes Association

2018 – present The Metabolomics Society

2020 – present The Obesity Society

Professional Activities:

Intramural:

2017 – present Publications Review Committee, The Southern Community Cohort Study

2020 – present	Data and Biospecimen Use Committee, The Southern Community Cohort Study
2023 – present	Research Liaison / Epidemiology, Internal Medicine Residency Program
2020 – 2021	Epidemiology Ph.D. Program Admissions Committee, Vanderbilt University
2020 – 2021	Vanderbilt University Medical Center COVID-19 Literature Summary Team
2022 Feb.	Judge, The Vanderbilt Global Health Case Competition
2022 May	Poster Judge, The Vanderbilt Diabetes Day, Diabetes Research Center
2022 Nov.	Poster Judge, The Vanderbilt Translational Research Forum
2023 May	Panel speaker, Asian Americans and Pacific Islanders (AAPI) Pioneers in Medicine at the Vanderbilt University Medical Center
2023 – 2024	Epidemiology Ph.D. Program Admissions Committee, Vanderbilt University
2024 Feb.	Poster Judge, The Vanderbilt Translational Research Forum
2024	Faculty Search Committee, Vanderbilt Epidemiology Center
2025 Dec.	Poster Judge, The Vanderbilt Diabetes Day, Diabetes Research Center
2026 Feb.	Poster Session Co-Chair, Vanderbilt-Ingram Cancer Center, Cancer Epidemiology and Cancer Outcomes and Control Research Programs Retreat
2026 May	Poster Judge, The Vanderbilt-Ingram Cancer Center (VICC) Annual Scientific Symposium

Extramural:

2026 – present	Associate Editor, *The Innovation Nutrition*
2024 – present	Proposal Review Chair, The Consortium of Metabolomics Studies
2020 – present	Steering Committee, The Consortium of Metabolomics Studies
2021 – present	Executive Committee, The Consortium of Metabolomics Studies
2013 – present	Manuscript reviewer for over 30 journals, including - General Medicine: *JAMA, New England Journal of Medicine, British Medical Journal, BMC Medicine; Cell Reports Medicine*; - Cardiometabolic Health: *European Heart Journal, Circulation, Journal of the American Heart Association, Diabetes Care, Diabetologia, Metabolism: Clinical & Experimental, Hypertension, Obesity, Journal of Gerontology - Series A*; *Diabetes, Obesity, and Metabolism* - Epidemiology: *Cancer Epidemiology, Biomarkers & Prevention, Clinical Epidemiology, Clinical Epidemiology*; - Nutrition: *The American Journal of Clinical Nutrition, Journal of Nutrition, British Journal of Nutrition, Nutrition Journal*; - Others: *Metabolites, Metabolomics, Gut Microbes, Scientific Reports, European Journal of Pharmacology, Molecular Psychiatry, International*

	Journal of Surgery
2022 – 2024	Associate Editor, *Nutrition Journal*
2021 June	Grant reviewer, Pathway to Independence Award for Outstanding Early-Stage Postdoctoral Researchers Study Section (K99/R00), NCI
2021 July	Grant reviewer, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section (R01 and R21), NIA
2022 June	Grant reviewer, Current Topics in Alzheimer's Disease and Its Related Dementias (R01, R21, and R15), NIA
2023 Feb.	Grant reviewer, New Epidemiological Cohort Study among Asian Americans, Native Hawaiians, and Pacific Islanders (U24 and UG3-UH3), NHLBI
2024 Jan.	Grant reviewer, Swiss National Science Foundation
2024 May	Grant reviewer, Center of Diabetes & Metabolic Diseases Pilot Program, Indiana University School of Medicine
2024 June	Grant reviewer, Human Studies of Diabetes and Obesity (HSDO) Study Section (R01 and R21), NIDDK
2025 Feb.	Grant reviewer, Patient-Oriented Research Career Development Award (K23 and K24), NHLBI
2026 Nov.	Grant reviewer, Neurological, Mental and Behavioral Health (NMBH) study section (R01, R03, R15, R34, and R21), NIA

Awards and Recognition:

2007	Outstanding Undergraduate Student of Beijing City (Top 1%)
2010	Outstanding Graduate Research Fellow, Chinese Academy of Sciences
2012	Outstanding Ph.D. Graduate, Chinese Academy of Sciences
2015	Early Investigator Travel Award, American Heart/Stroke Association
2015	Metabolomics Workshop Travel Award, NIH Metabolomics Common Fund
2018	High Impact Publication, Vanderbilt-Ingram Cancer Center
2017, 2018, 2019, 2020, 2022, 2024	Top 10 Papers of the Year, Vanderbilt Epidemiology Center
2022	AAMC Early Career Women Faculty Leadership Development Workshop
2022	Finalist, Early Career Research Award, American Society for Nutrition
2024	Women in Leadership: Strategic Influencer Program, VUMC
2026	Vanderbilt-Ingram Cancer Center (VICC) Research Program Fellow
2026	Excellence in Nutrition Fellow of the American Society for Nutrition (FASN)

Teaching Activities:

Guest Lectures and Panels:

2019 Sept.	Application of Metabolomics in Epidemiological Studies. The Molecular and Genetic Epidemiology Course, Division of Epidemiology, VUMC
2020 Nov.	Career Opportunities in Nutritional Epidemiology. The Nutritional Epidemiology Course, Department of Nutrition and Integrative Physiology, University of Utah
2021 Nov.	Transitioning to Independence, Mentorship, and Challenges in Academic Careers. The Consortium of Metabolomics Studies Early Career Investigator Interest Group
2023 Mar.	Advanced Methods for Epidemiology Course, Division of Epidemiology, VUMC
2024 Sept.	Obesity, Lifestyles, and Cancer. The Molecular and Genetic Epidemiology Course, Division of Epidemiology, VUMC
2025 Sept.	Metabolomics and Proteomics. The Molecular and Genetic Epidemiology Course, Division of Epidemiology, VUMC
2026 July	Early Career Coffee & Conversation, American Society for Nutrition Annual Conference
2026 Oct.	Research Strategy: Nuts and Bolts. The Molecular and Genetic Epidemiology Course, Division of Epidemiology, VUMC

Research Supervision: *primary mentor; #mentoring committee

2015 June – 2015 July	*King Emmanuel, BS, Summer Intern, Meharry Medical College
2016 June – 2020 Nov.	*Jae Jeong Yang, PhD, Postdoctoral Research Fellow
2017 Sept. – 2017 Dec.	#Jingjing Zhu, PhD Student in Epidemiology
2018 Jan. – 2018 June	#Hyung-Suk Yoon, PhD, Postdoctoral Research Fellow
2019 June – 2021 May	#Jiajun Shi, PhD, Senior staff scientist
2019 July – 2019 Dec.	*Ruiqi Qu, Undergraduate Research Assistant
2019 Sept. – 2021 Sept.	*Xiongfei Pan, PhD, Postdoctoral Research Fellow
2020 Jan. – 2021 Apr.	#Cong Wang, PhD Student in Epidemiology
2022 June – 2022 Aug.	*Naziyya Haque, MPH, Summer Intern, Alabama College of Osteopathic Medicine, NIDDK Medical Student Research Program
2022 Sept. – 2023 Jan.	*Michael O'Brien, BS, Vanderbilt University, Medical Student Research Immersion Program
2022 Aug. – 2024 Aug.	*Kui Deng, PhD, Postdoctoral Research Fellow
2022 June – 2024 June	#Chandler Montgomery, MD, Resident, Cardiovascular Medicine
2022 June – 2024 June	#Melis Sahinoz, MD, Resident, Cardiovascular Medicine

2024 Jan. – 2024 Dec.	#Lili (Larry) Liu, PhD Student in Epidemiology
2024 Dec. – 2025 June	*Anagha Ashokan, BS, Vanderbilt University Medical Student
2021 Sept. – 2025 June	*Lei Wang, PhD Student in Epidemiology, Dissertation: Discovery and validation of gut microbiome and circulating metabolites associated with dietary patterns and cardiometabolic diseases
2022 Sept. – 2025 June	#Fangcheng (Fred) Yuan, PhD Student in Epidemiology
2024 Feb. – 2026 Feb.	*Yulu Zheng, PhD, Postdoctoral Research Fellow
2024 May – 2026 Mar.	#Leonie Dupuis, MD, Resident, Cardiovascular Medicine
2024 Aug. – present	#Allison Chan, PhD Student in Epidemiology, Dissertation: Investigating relationships of the upper airway microbiota and SARS-CoV-2 susceptibility and COVID-19 presentation
2024 Aug. – present	*Zicheng (Wendy) Wang, PhD Student in Epidemiology
2025 July – present	#Emma Nolan, PhD Student in Epidemiology, Dissertation: Independent and synergistic effects of insulin resistance and poor sleep on cognitive decline and Alzheimer's disease
2025 July – present	#Curtis Gabriel, MD, PhD, Assistant Professor, K23DK135420: The Gut-Liver Axis in HIV-Related Non-Alcoholic Fatty Liver Disease
2025 Aug. – present	*Lei Wang, PhD, Postdoctoral Research Fellow
2025 Aug. – present	#Jessica Rampy, PhD, Postdoctoral Research Fellow

Research Programs:

Ongoing Research Support:

2021 Feb. – 2026 Jan. (NCE to 2027 Jan.)	**Principal Investigator**. R01DK126721 **Title:** The Gut Microbiota in Metabolic Surgery: A Multi-Ethnic, Multi-Omic, Longitudinal Study **Objectives:** To establish a longitudinal cohort of patients undergoing metabolic surgery, examine changes in the gut microbiome and microbial metabolites before and after surgery, and identify microbial features that may predict cardiometabolic improvements after surgery
2023 Sept. – 2028 Aug.	**Multiple Principal Investigator (Contact)**. R01CA275864 **Title:** Gut Microbiota-related Mechanisms that Impact Colorectal Cancer Risk after Bariatric Surgery **Objectives:** To evaluate longitudinal changes up to three years after bariatric surgery in gut microbiota, microbial metabolites, and inflammatory/immunological proteins and examine the molecular mechanisms of post-surgery gut microbiota in colorectal cancer

development via fecal microbiota transplant in mice

2024 May – 2026 Apr. **Principal Investigator**. Vanderbilt Institute for Clinical and Translational Research Grant: VR72409

Title: The Gut Microbiota in Novel Pharmacotherapy for Obesity

2024 Apr. – 2027 Apr. **Joint Project Director**. USDA/National Institute of Food and Agriculture grant #2024-38821-42214 (contact PI: Wu, Ying)

Title: An In-Depth Elucidation of the Correlation between Dietary Fiber and Gut Microbiota

2024 Aug. – 2026 July **Principal Investigator**. The Peanut Institute Award #1330736

Title: Peanut Consumption, Circulating Metabolites, and Incident Coronary Heart Disease: A Prospective Metabolomic Study

2025 July – 2027 Aug. **Co-Investigator / Subaward PI**. U01CA272541 (PI: Makowski, Liza)

Title: Determining the Contribution of Microbial-derived Metabolites to Immunosurveillance in Obesity-driven Cancer Risk

2025 Sep. – 2027 Aug. **Co-Investigator.** Eli Lily Investigator-Initiated Research: LGO-A-39787 (PI: Chen, You)

Title: Identifying and Mitigating Gaps in Continuous Obesity Care: A Human-AI Collaborative Approach Leveraging Longitudinal EHR Data

2025 Sep. – 2030 Aug. **Co-Investigator / Subaward PI**. R01HL178035 (PI: Hu, Frank)

Title: Identification of Biomarkers of Plant-Rich Diets and Carbonyl Stress and Their Associations with Cardiovascular Risk

Completed Research Support:

2010 Mar – 2015 Jan. **Postdoctoral research fellow**. R01HL095931. PI: Zhang, Xianglan.

Phytoestrogen and Endogenous Estrogen Exposure and Risk of Stroke

2011 Sept. – 2017 Apr. **Postdoctoral research fellow**. R01CA092447. PI: Blot, William; Zheng, Wei. The Southern Community Cohort Study

2013 Sept. – 2018 Aug. **Postdoctoral research fellow**. UM1CA173640. PI: Shu, Xiao-Ou.

The Shanghai Men's Health Study

2014 Sept. – 2019 Aug. **Postdoctoral research fellow**. UM1CA182910. PI: Zheng, Wei.

The Shanghai Women's Health Study

2014 July – 2017 June **Co-Investigator**. R03CA183021. PI: Shu, Xiao-Ou.

The Diet and Lung Cancer Pooling Project

2017 Apr. – 2020 June **Principal Investigator**. VUMC Faculty Research Scholar (KL2

	Mentored Career Development Award) **Title:** Linking long-term diet, gut microbiome, and their interactions with human metabolism and cardiometabolic disease risk.
2018 June – 2020 June	**Principal Investigator**. Vanderbilt Digestive Disease Research Center Pilot & Feasibility Grant **Title:** The gut microbiome in metabolic and bariatric surgery.
2018 Aug. – 2021 May	**Principal Investigator**. R21HL140375 **Title:** Trimethylamine metabolites and their associations with dietary intakes and cardiometabolic biomarkers: the TMAO Pooling Project
2021 Jan. – 2021 June	**Principal Investigator**. Vanderbilt Memory and Alzheimer's Center Pilot & Feasibility Funding **Title:** Polyphenols and risk of Alzheimer's disease and dementias in the Southern Community Cohort Study
2022 July – 2023 June	**Co-Investigator.** R01LM012854 (PI: Chen, You) **Title:** Discovering Care Coordination Practice Patterns in the EMR: Interpretation and Impact on Patient Outcomes
2023 Jan. – 2024 June	**Co-Investigator.** Pfizer, Inc. (PI: Zheng, Wei) **Title:** Investigating Racial Disparities in Cancer Incidence and Mortality in the Southern Community Cohort Study
2024 Jan. – 2024 Dec	**Co-Investigator.** American Cancer Society (PI: Tabung, Fred) **Title:** Metabolomics of insulinemic diets and colon cancer risk
2023 Jan. – 2025 Apr.	**Joint Project Director**. USDA/Robert Wood Johnson Foundation Grant #80516 **Title:** Providing Critical Data to Inform Key Stakeholders in Nutrition Policy and Programmatic Efforts to Support Families with Food Allergies
2020 July – 2025 June	**Principal Investigator**. R01HL149779 **Title:** Gut Microbial Metabolites and Risk of Coronary Heart Disease: A Prospective, Multiethnic, Metabolomic Study

Publications and Presentations:

Total original peer-reviewed articles (n = 107); listed below are articles as the first or senior author or published since 2021 (n = 86):

1. Pan A[*], **Yu D**[*], Demark-Wahnefried W, Franco OH, and Lin X. Meta-analysis of the effects of flaxseed interventions on the blood lipids. ***Am J Clin Nutr.*** 2009, 90(2): 288-97. PMID: 19515737. [*]**Co-first author**

2. **Yu D**, Yu Z, Sun Q, Sun L, Li H, Wu H, Lu L, Liu C, Zhang G, Hu FB, and Lin X. Effects of body fat on the associations of high-molecular-weight adiponectin, leptin and soluble leptin receptor with metabolic syndrome in Chinese. ***PLoS ONE*** 2011, 6(2): e16818. PMID: 21347230.

3. **Yu D**, Sun Q, Ye X, Pan A, Zong G, Zhou Y, Li H, Hu FB, and Lin X. Erythrocyte trans-fatty acids, type 2 diabetes, and cardiovascular risk factors in middle-aged and older Chinese. ***Diabetologia*** 2012, 55(11):2954-62. PMID: 22886370.

4. **Yu D**, Shu XO, Li H, Xiang Y, Yang G, Gao Y, Zheng W, and Zhang X. Dietary carbohydrates, refined grains, glycemic load, and risk of coronary heart disease in Chinese adults. ***Am J Epidemiol*.** 2013, 178(10):1542-9. PMID: 24008907.

5. **Yu D**, Zhang X, Gao Y, Li H, Yang G, Huang J, Zheng W, Xiang Y, and Shu XO. Fruit and vegetable intake and risk of coronary heart disease: results from prospective cohort studies of Chinese adults in Shanghai. ***Brit J Nutr*.** 2014, 111(2):353-62. PMID: 23866068.

6. **Yu D**, Shu XO, Xiang Y, Li H, Yang G, Gao Y, Zheng W, and Zhang X. Higher dietary choline intake is associated with lower risk of nonalcoholic fatty liver in normal-weight Chinese women. ***J Nutr*.** 2014. 144(12):2034-40. PMID: 25320186.

7. **Yu D**, Zhang X, Xiang Y, Yang G, Li H, Fazio S, Linton M, Cai Q, Zheng W, Gao Y, and Shu XO. Association of soy food intake with risk and biomarkers of coronary heart disease in Chinese men. ***Int J Cardiol*.** 2014, 172(2):e285-7. PMID: 24438928.

8. **Yu D**, Zhang X, Xiang Y, Yang G, Li H, Gao Y, Zheng W, and Shu XO. Adherence to dietary guidelines and mortality: a report from prospective cohort studies of 134,000 Chinese adults in urban Shanghai. ***Am J Clin Nutr*.** 2014, 100(2): 693-700. PMID: 24944055.

9. **Yu D**, Shu XO, Li H, Yang G, Cai Q, Xiang Y, Ji B, Franke A, Gao Y, Zheng W, and Zhang X. Dietary isoflavones, urinary isoflavonoids, and risk of ischemic stroke in women. ***Am J Clin Nutr*.** 2015,102(3):680-6. PMID: 26245809.

10. **Yu D**, Sonderman J, Buchowski M, McLaughlin J, Shu XO, Steinwandel M, Signorello L, Zhang X, Hargreaves M, Blot W, and Zheng W. Healthy eating and reduced risk of total and cause-specific deaths among low-income populations of African Americans and other adults in the Southeastern United States. ***PLOS Med.*** 2015, 12(5): e1001830. PMID: 26011727.

11. **Yu D**, Moore S, Matthews C, Xiang Y, Zhang X, Gao Y, Zheng W, and Shu XO. Plasma metabolomic profiles in association with type 2 diabetes risk and prevalence in Chinese. ***Metabolomics*** 2016, 12:3. doi: 10.1007/s11306-015-0890-8. PMID: 27840598.

12. **Yu D**, Zhang X, Shu XO, Cai H, Li H, Ding D, Hong Z, Xiang Y, Gao Y, Zheng W, and Gong Y. Dietary glycemic index, glycemic load, and refined carbohydrates are associated

with risk of stroke: a prospective cohort study of urban Chinese women. ***Am J Clin Nutr.*** 2016, 104(5): 1345-51. PMID: 27733400.

13. **Yu D**, Takata Y, Smith-Warner S, Blot W, Sawada N, White E, … and Shu XO on behalf of the Calcium and Lung Cancer Pooling Project. Prediagnostic Calcium intake and lung cancer survival: a pooled analysis of 12 cohort studies. ***Cancer Epidemiol Biomarkers Prev.*** 2017, 26(7):1060-70. PMID: 28264875.

14. Yang JJ, **Yu D**[*], Takata Y, Smith-Warner SA, Blot W, White E, … and Shu XO on behalf of the Dietary Intake and Lung Cancer Pooling Project. Dietary fat intake and lung cancer risk: a pooled analysis of 1.44 million individuals. ***J Clin Oncol.*** 2017, 35(26): 3055-64. PMID: 28742456. ***Corresponding author**

15. **Yu D**[*], Zheng W, Cai H, Xiang Y, Li H, Gao Y, and Shu XO. Long-term diet quality and risk of type 2 diabetes among urban Chinese adults. ***Diabetes Care*** 2018; 41:723-30. PMID: 29269510. ***Corresponding author** **[Featured Article]**

16. **Yu D**, Johansson M, White E, Lan Q, Park Y, White E, … and Shu XO on behalf of the Diet and Lung Cancer Pooling Project. Overall and central obesity and risk of lung cancer: a pooled analysis of 12 cohort studies. ***J Natl Cancer Inst.*** 2018, 110(8):831–42 PMID: 29518203.

17. **Yu D**[*], Shu XO, Rivera ES, Zhang X, Cai Q, Calcutt MW, Xiang YB, Li H, Gao YT, Wang TJ, and Zheng W. Urinary Levels of Trimethylamine-N-Oxide and Incident Coronary Heart Disease: A Prospective Investigation Among Urban Chinese Adults. ***J Am Heart Assoc.*** 2019;8:e010606 PMID: 30606084. ***Corresponding author**

18. Yang JJ[*], **Yu D**[*], Wen WQ, Saito E, Rahman S, Shu XO, … and Zheng W on behalf of the Asian Cohort Consortium. Diabetes and Cause-Specific Mortality in Asia: A Pooled Analysis of more than 1 million participants in 22 cohorts. ***JAMA Network Open*** 2019;2(4):e192696. PMID: 31002328. ***Co-first author.**

19. Liu N, Yang JJ, Meng R, Pan X, Zhang X, He M, Wu T, Shu X, Zheng W, **Yu D**[*], and Pan A. Associations of blood pressure categories defined by 2017 ACC/AHA guidelines with mortality in China: Pooled results from three prospective cohorts. ***Eur J Prev Cardiol.*** 2020;27(4):345-354. PMID: 31288541. ***Corresponding author**

20. Yang JJ[*], **Yu D**[*], Xiang YB, Blot W, White E, Robien K, … and Shu XO on behalf of the Dietary Intake and Lung Cancer Pooling Project. Association of Dietary Fiber and Yogurt Consumption with Lung Cancer Risk: A Pooled Analysis. ***JAMA Oncology*** 2020;6(2):e194107. PMID: 31647500. ***Co-first author.**

21. Yoon HS, Yang JJ, Rivera ES, Calcutt MW, Zhang X, Zheng W, Shu XO, and **Yu D**[*]. Urinary Metabolites and Risk of Coronary Heart Disease: A Prospective Investigation among Chinese Adults. ***Nutr Metab Cardiovasc Dis.*** 2020;30(3):467-473. PMID: 31831367. ***Corresponding author**

22. Yang JJ, Lipworth LP, Shu XO, Blot WJ, Xiang YB, Steinwandel MD, Li H, Gao YT,

Zheng W, and **Yu D**[*]. Associations of Choline-related Nutrients with Cardiometabolic and All-cause Mortality: Results from Three Prospective Cohort Studies of Blacks, Whites, and Chinese. ***Am J Clin Nutr***. 2020;111(3):644-656. PMID: 31915809. *__Corresponding author__

23. **Yu D**[*], Shu XO, Howard EF, Long J, English WJ, and Flynn CR. Fecal metagenomics and metabolomics reveal gut microbial changes after bariatric surgery. ***Surg Obes Relat Dis.*** 2020 Nov;16(11):1772-1782. PMID: 32747219. *__Corresponding author__

24. Nguyen S, Li H, **Yu D**, Cai H, Gao J, Gao Y, Luu HN, Tran H, Xiang YB, Zheng W, and Shu XO. Dietary Fatty Acids and Colorectal Cancer Risk in Men: A Report from the Shanghai Men's Health Study and a Meta-Analysis. ***Int J Cancer.*** 2021; 148(1): 77-89. PMID: 32638381.

25. Zhu J, Smith-Warner SA, **Yu D**, Zhang X, Blot WJ, Xiang YB, … and Shu XO on behalf of the Dietary Intake and Lung Cancer Pooling Project. Associations of coffee and tea consumption with lung cancer risk. ***Int J Cancer.*** 2021 Jan;148:2457-70. PMID: 33326609.

26. Fan L, **Yu D**, Zhu X, Huang X, Murff HJ, Azcarate-Peril MA, Shrubsole MJ, Dai Q. Magnesium and imidazole propionate. ***Clin Nutr ESPEN.*** 2021 Feb;41:436-438. PMID: 33487303.

27. Chen S, Jiang PP, **Yu D**, Liao GC, Wu SL, Fang AP, Chen PY, Wang XY, Luo Y, Long JA, Zhong RH, Liu ZY, Li CL, Zhang DM, Zhu HL. Effects of probiotic supplementation on serum trimethylamine-N-oxide level and gut microbiota composition in young males: a double-blinded randomized controlled trial. ***Eur J Nutr.*** 2021 Mar;60(2):747-758. PMID: 32440731.

28. **Yu D**[*], Nguyen S, Yang Y, Xu W, Cai H, Wu J, Cai Q, Long J, Zheng W, and Shu XO. Long-term diet quality is associated with gut microbiome diversity and composition among urban Chinese adults. ***Am J Clin Nutr.*** 2021 Mar; 113(3):684-94. PMID: 33471054. *__Corresponding author__

29. Yang JJ, **Yu D**, Shu XO, Freedman ND, Wen W, Rahman S, … and Zheng W on behalf of the Asian Cohort Consortium. Quantifying the association of low-intensity and late initiation of tobacco smoking with total and cause-specific mortality in Asia. ***Tobacco Control*** 2021 May;30(3):328-335. PMID: 32546664.

30. Yang JJ, Shu XO, Herrington, DM, Moore SC, Meyer KA, Ose J, … and **Yu D**[*] on behalf of the TMAO Pooling Project. Circulating Trimethylamine N-oxide (TMAO) in Association with Diet and Cardiometabolic Biomarkers: An International Pooled Analysis. ***Am J Clin Nutr.*** 2021 May;113(5):1145-1156. PMID: 33826706. *__Corresponding author__

31. Pan XF, Huang Y, Li X, Wang Y, Ye Y, Chen H, …, **Yu D**, Chen D, Li Y, Mei Z, Pan A, and Wu JH. Circulating fatty acids and risk of gestational diabetes mellitus: prospective analyses in China. ***Eur J Endocrinol.*** 2021 May;185(1):87-97. PMID: 33914701.

32. **Yu D**[*], Yang Y, Long J, Xu W, Cai Q, Wu J, Cai H, Zheng W, and Shu XO. Long-term diet quality and gut microbiome functionality: a prospective, shotgun metagenomic study among urban Chinese adults. ***Curr Dev Nutr.*** 2021 Apr; 5(4):nzab026. PMID: 33937616. ***Corresponding author**

33. Yang JJ, **Yu D**, Shu XO, Wen W, Rahman S, Abe S, …, and Zheng W. Reduction in total and major cause-specific mortality from tobacco smoking cessation: a pooled analysis of 16 population-based cohort studies in Asia. ***Int J Epidemiol.*** 2021 Dec;50(6): 2070-2081. PMID: 34999862.

34. Wang C, Yang Y, Xu W, **Yu D**, Wu J, Cai Q, Long J, Zheng W, Shu XO. Legume Consumption and Gut Microbiome in Elderly Chinese Men and Women. ***J Nutr.*** 2021 Aug 7;151(8):2399-2408. PMID: 34114016.

35. Pan XF, Yang JJ, Shu XO, Moore SC, Palmer ND, Guasch-Ferré M, …, and **Yu D**[*] on behalf of the TMAO Pooling Project. Associations of circulating choline and its related metabolites with cardiometabolic biomarkers: an international pooled analysis. ***Am J Clin Nutr.*** 2021. Sep 1;114(3):893-906. PMID: 34020444. ***Corresponding author**

36. Yang X, Xie Y, Wang Y, Yu Y, Jin X, Xiu P, Wu JH, **Yu D**, Pan A, Zhao J, Yang CX, Pan XF. Association between arthritis and risk of incident diabetes: a nationwide cohort study and updated meta-analysis. ***Diabetes Metab Res Rev.*** 2021 Jul:e3487. PMID: 34289224.

37. Pan XF, Yang JJ, Lipworth LP, Shu XO, Cai H, Steinwandel MD, Blot WJ, Zheng W, **Yu D***. Cholesterol and Egg Intakes with Cardiometabolic and All-Cause Mortality among Chinese and Low-Income Black and White Americans. ***Nutrients.*** 2021 Jun;13(6). PMID: 34205293. ***Corresponding author**

38. Feng CW, Cao YY, Su Y, Cai H, Shu XO, Zheng W, **Yu D**[*], Zong G Association between tea consumption and hypertension risk among middle-aged and older Chinese adults. ***J Nutr*** 2021 Dec 3;151(12):3773-3780. PMID: 34590120. ***Co-corresponding author**

39. Shi J, Yang Y, Xu W, Cai H, Wu J, Long J, Cai Q, Zheng W, Flynn CR, Shu XO, **Yu D**[*]. Sex-specific associations between gut microbiome and non-alcoholic fatty liver disease among urban Chinese adults. ***Microorganisms*.** 2021 Oct 8;9(10). PMID: 34683439. ***Corresponding author**

40. Yang JJ, **Yu D**, White E, Lee DH, Blot W, Robien K, …, and Shu XO on behalf of the Dietary Intake and Lung Cancer Pooling Project. Pre-Diagnosis Leisure-Time Physical Activity and Lung Cancer Survival: A Pooled Analysis of 11 Cohorts. ***JNCI Cancer Spectrum*** 2022 Mar 2;6(2):pkac009. PMID: 35603841.

41. Chang RS, Xu M, Brown SH, Cohen SS, **Yu D**, Akwo EA, Dixon D, Lipworth L, Gupta DK. Relation of the Dietary Approaches to Stop Hypertension Dietary Pattern to Heart Failure Risk and Socioeconomic Status (from the Southern Community Cohort Study). ***Am J Cardiol***. 2022 Apr 15;169:71-77. PMID: 35090697.

42. Fike LT, Munro H, **Yu D**, Dai Q, Shrubsole MJ. Dietary polyphenols and the risk of colorectal cancer in the prospective Southern Community Cohort Study. ***Am J Clin Nutr.*** 2022 Apr;115(4):1155-1165. PMID: 35044416.

43. Shi J, **Yu D**, Yang Y, Cai H, Wu J, Cai Q, Long J, Zheng W, Xu W, Shu XO. Association Between Long-Term Regular Exercise and Gut Microbiota Among Middle-Aged and Older Urban Chinese. ***Int J Sport Nutr Exerc Metab*.** 2022 May 1;32(3):144-152. PMID: 35078151.

44. Yang JJ, Keohane L, Pan XF, Qu R, Shu XO, Lipworth L, Braun K, Steinwandel M, Dai Q, Shrubsole M, Zheng W, Blot W, **Yu D**[*]. Association of Healthy Lifestyles with Risk of Alzheimer's Disease and Related Dementias in Low-Income Black and White Americans. ***Neurology*** 2022 Aug 30;99(9):e944-e953. PMID: 35697505. ***Corresponding author**

45. Pan XF, Chen ZZ, Wang TJ, Shu XO, Cai H, Cai Q, Clish CB, Shi X, Zheng W, Gerszten RE, Shu XO, **Yu D**[*]. Plasma metabolomic signatures of obesity and risk of type 2 diabetes. ***Obesity*** 2022 Nov;30(11):2294-2306. PMID: 36161775. ***Corresponding author**

46. Zhang YB, Pan XF, Lu Q, … **Yu D**, He MA, Zhang XM, Liu LG, Wu T, Pan A, Liu G, and Wu SL. Associations of combined healthy lifestyles with cancer morbidity and mortality among individuals with diabetes: results from five cohort studies in the USA, the UK and China. ***Diabetologia*** 2022 Dec; 65(12):2044-2055. PMID: 36102938.

47. Zhang YB, Pan XF, Lu Q, … **Yu D**, He MA, Zhang XM, Liu LG, Wu T, Wu SL, Liu G, and Pan A. Association of Combined Healthy Lifestyles with Cardiovascular Disease and Mortality of Patients with Diabetes: An International Multicohort Study. ***Mayo Clinic Proceedings*** 2023 Jan; 98(1):60-74. PMID: 36603958.

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After Bariatric Surgery or Treatment With GLP-1 Receptor Agonists. ***JAMA Network Open*** 2026 Jan 9:e2553323. PMID: 41511769. ***Corresponding author**

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85. Zheng Y, Wang Z, Wang L, Flynn CR, Shu XO, English WJ, Samuels JM, Chen Y, Lipworth L, Gupta D, Cai Q, Zheng W, **Yu D**[*]. Temporal Changes in Circulating Metabolites after Metabolic and Bariatric Surgery and Risk of Incident Coronary Heart Disease: Evidence from Prospective Cohort and Nested Case–Control Studies. ***International Journal of Surgery***. 2026 [In press] [*]**Corresponding author**

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Total original peer-reviewed articles (n = 107); Listed above are articles as the first or senior author or published since 2021 (n = 86)

PubMed Bibliography: https://www.ncbi.nlm.nih.gov/myncbi/danxia.yu.1/bibliography/public/

Presentations at Scientific Meetings as the First or Senior Author:

2013 Mar White Rice Linked to Higher Risk of Coronary Heart Disease in Chinese Adults. *The American Heart Association Scientific Session: EPI|NPAM*, New Orleans, LA.

2014 Mar Urinary Isoflavonoids, Gut Microbiota Metabolites, and Ischemic Stroke in Postmenopausal Women. *The American Heart Association Scientific Session: EPI| NPAM*, San Francisco, CA.

2015 Mar Healthy Eating Predicts Lower Risk of Major Non-Communicable Diseases in Chinese Adults. *The American Heart Association Scientific Session: EPI|Lifestyle*, Baltimore, MD. [**Early Investigator Travel Award**]

2016 Apr. Plasma Metabolome Correlates with Habitual Dietary Intakes among Chinese

Adults. *Experimental Biology*, San Diego, CA.

2016 Nov. Pre-diagnostic Calcium Intake and Lung Cancer Survival: A Pooled Analysis of 12 Cohort Studies. *National Cancer Institute Cohort Consortium Annual Meeting*, Bethesda, MD.

2017 Mar Dietary Trimethylamine Intake and Cardiovascular Mortality among Urban Chinese Adults. *The American Heart Association Scientific Session: EPI|Lifestyle*, Portland, OR.

2018 June Long-Term Diet Quality and Risk of Type 2 Diabetes among Urban Chinese Adults. *The American Society for Nutrition Annual Meeting*, Boston, MA.

2019 Mar Urinary Levels of Trimethylamine-N-Oxide and Incident Coronary Heart Disease. *The American Heart Association Scientific Session: EPI|Lifestyle*, Houston, TX.

2019 June Sociodemographic and Behavioral Factors Associated with Long-term Weight Change among Low-income Blacks and Whites. *The American Diabetes Association Scientific Sessions*, San Francisco, CA

2019 Nov. Associations of circulating trimethylamine-n-oxide (TMAO) with dietary intakes and cardiometabolic biomarkers: results from the TMAO pooling project. *The American Heart Association Scientific Sessions*, Philadelphia, PA

2020 June Associations of n-3 fatty acids and fish intakes with risk of dementia among low-income black and white Americans. *The American Society for Nutrition Annual Meeting* (virtual)

2021 June Metabolomic signatures of obesity and risk of type 2 diabetes. *The American Diabetes Association Scientific Sessions* (virtual)

2022 June Association of healthy lifestyles with risk of Alzheimer's disease and related dementias in low-income Black and White Americans. *The American Society for Nutrition Annual Meeting* (virtual)

2023 Mar Circulating Gut Microbiota-related Metabolites and Risk of Coronary Heart Disease: A Prospective, Multiethnic, Metabolomic Study. *The American Heart Association Scientific Session: EPI|Lifestyle*, Boston, MA

2023 Oct. Cardiometabolic Improvements after Bariatric Surgery and Related Pre-surgery Factors. *ObesityWeek 2023*, Dallas, TX [**Best Abstract Award of the Bariatric Section**]

2024 Mar. Blood lipids, lipoproteins, and apolipoproteins with risk of coronary heart disease: a prospective study among multi-racial populations. *The American Heart Association Scientific Session: EPI|Lifestyle*, Chicago, IL

2024 June Metabolomic Profiles of Low-insulinemic and Anti-inflammatory Dietary Patterns

in Relation to Colorectal Cancer Risk in Diverse Global Populations: A COMETS Consortium Study in Ten Cohorts. *The Annual Conference of the Metabolomics Society*, Osaka, Japan

2024 July Long-term Dietary Patterns and Gut Microbiome among Black/African American Adults in the Southeastern United States. *The American Society for Nutrition Annual Meeting*, Chicago, IL

2025 Mar. Temporal Changes in Blood and Fecal Metabolites and Fecal Microbiome After Bariatric Surgery. *The American Heart Association Scientific Session: EPI| Lifestyle*, New Orleans, LA

2025 Mar. Metabolite Signature of Ultra-processed Foods Intake and Cardiovascular Morbidity and Mortality Among Low-income Black and White Americans. *The American Heart Association Scientific Session: EPI|Lifestyle*, New Orleans, LA [The First-author Trainee Received the **Early Investigator Travel Award**]

2025 Nov. Bariatric Surgery and GLP-1 Receptor Agonist on Body Composition Changes. *ObesityWeek 2025*, Atlanta, GA [**Best Abstract Award of the Bariatric Section**]

2025 Nov. Obesity-Related Metabolites, Incident Coronary Heart Disease, and Changes After Bariatric Surgery. *ObesityWeek 2025*, Atlanta, GA [**Best Abstract Award of the Population Science & Public Health Section**]

2026 July Peanut consumption, circulating metabolites, and coronary heart disease: A Two-stage Prospective Metabolomic Study. *The American Society for Nutrition Annual Meeting*, National Harbor, MD

2026 Nov. GLP-1 Receptor Agonist Treatment Response and Persistence by Binge Eating Disorder Status. *ObesityWeek 2026*, National Harbor, MD

Invited Talks:

2018 June Long-Term Diet Quality and Risk of Type 2 Diabetes among Urban Chinese Adults. The American Society for Nutrition Annual Meeting, Boston, MA

2019 Aug. Gut Microbial Metabolites and Risk of Cardiometabolic Diseases in Populations. Sun Yat-sen University, Guangzhou, China

2019 Aug. The Gut Microbiota at the Intersection of Nutrition and Cardiometabolic Health. Fudan University, Shanghai, China

2021 Jan. Long-term Diet and the Gut Microbiome Composition and Functionality. The Consortium of Metabolomics Studies

2021 June The Role of Habitual Diet in Shaping the Human Gut Microbiome. The American

Society for Nutrition Annual Meeting (Session Speaker and Chair)

2021 Sept. Circulating Microbial Metabolites with Diet and Cardiometabolic Health. Annual All Members Meeting of the Consortium of Metabolomics Studies

2021 Nov. The Gut Microbiota at the Intersection of Nutrition and Cardiometabolic Health. The Vanderbilt Translational Research Forum (Plenary Talk)

2022 Nov. The Gut Microbiota after Bariatric and Metabolic Surgery. The Vanderbilt-Ingram Cancer Center Population Science Retreat

2023 Apr. Application of Metabolomics in Population-based Research of Nutrition and Cardiometabolic Diseases. Vanderbilt Diabetes Research and Training Center Seminar Series

2023 July Metabolomics in Nutritional Epidemiology. North America Chinese Association for Nutrition Scientific Symposium

2023 Sept. Metabolomics in Colorectal Cancer and Beyond. Annual Meeting of the Consortium of Metabolomics Studies

2024 Jan. Metabolomics in Cardiovascular Epidemiological Research and Clinical Practice: Ready for Prime Time? Vanderbilt Seminars in Cardiovascular Research

2024 Feb. Molecular Epidemiological Resources of the Southern Community Cohort Study. The Consortium of Metabolomics Studies

2024 June Application of Metabolomics in Epidemiological Research of Nutrition and Cardiometabolic Diseases. Peking University (#13 QS World Universities), Beijing, China

2025 Feb. Application of Multi-Omics and Electronic Health Records in Epidemiologic Studies of Obesity and Metabolic Health. Clinical and Translational Epidemiology Unit, Massachusetts General Hospital, Harvard Medical School

2026 Jan. Using Electronic Health Records to Evaluate Health Improvements of Weight Loss Treatment. Precision Nutrition Symposium: Heritage and Innovation. Virtual, Chinese Academy of Sciences

2026 Feb. Gut microbiota-related mechanisms that impact colorectal cancer risk after bariatric surgery. Division of Cancer Control and Population Sciences, National Cancer Institute

2026 Apr. Using Multi-Omics and Electronic Health Records in Epidemiologic Studies of Chronic Diseases. Welch Center for Prevention, Epidemiology, and Clinical Research, Johns Hopkins University

2026 Jun. Application of Multi-Omics and Electronic Health Records in Epidemiologic

Studies of Nutrition and Metabolic Diseases. Institute of Nutrition and Health, Chinese Academy of Sciences, Shanghai, China

2026 July Application of Multi-Omics and Electronic Health Records in Epidemiologic Studies of Chronic Diseases. School of Nursing, Hong Kong Polytechnic University (#50 QS World Universities), Hong Kong, China