

Kristen L. James

Graduate Group in Nutritional Biology
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Education

- 2017 - Present **Ph.D. Nutritional Biology, Emphasis in Genetics**
University of California, Davis
Graduate Group in Nutritional Biology
Mentor: Brian J. Bennett
- 2012 - 2016 **B.S. Biochemistry**
Seattle University
Core Honors
College of Science and Engineering Dean's List
Division 1 Tennis Player, 2 Year Team Captain

Professional and Research Experience

- 2018 - Present **Graduate Student Researcher**
USDA-ARS Western Human Nutrition Research Center, Davis, CA
- 2019 - 2020 **Community Education Specialist**
CalFresh Healthy Living University of California, Davis, CA

Publications

Published

- **Kristen L. James**, Erik R. Gertz, Eduardo Cervantes, Ellen L. Bonnel, Charles B. Stephensen, Mary E. Kable, and Brian J. Bennett. Diet, Fecal Microbiome, and Trimethylamine N-Oxide in a Cohort of Metabolically Healthy United States Adults. *Nutrients*. 2022; 14(7):1376, <https://doi.org/10.3390/nu14071376>
- Excel Que*, **Kristen L James***, Alisha R Coffey, Tangi L Smallwood, Jody Albright, M Nazmul Huda, Daniel Pomp, Praveen Sethupathy, Brian J Bennett. Genetic architecture modulates diet-induced hepatic mRNA and miRNA expression profiles in Diversity Outbred mice. *Genetics*. Volume 218, Issue 3, July 2021, iyab068, <https://doi.org/10.1093/genetics/iyab068>

* These authors contributed equally to this work.

Limited Distribution

- Protein Requirements Nutrition and Health Info Sheet (Professional) 2020. Available at: <https://nutrition.ucdavis.edu/outreach/nutr-health-info-sheets/pro-protein-requirements>
- Ketogenic Diet Nutrition and Health Info Sheet (Professional) 2020. Available at: <https://nutrition.ucdavis.edu/outreach/nutr-health-info-sheets/pro-ketogenic-diet>

Conferences

- TMAO response to a high-fat high-sugar meal challenge in generally healthy United States adults (abstract submitted). American Society of Nutrition (2022).
- Assessment of FMO3 SNPs in relation to TMAO in generally healthy United States adults (Speaker). American Society of Nutrition (2021).
- Determining the genetic regulation of trimethylamine N-oxide (TMAO) in female Diversity Outbred mice (Poster). FASEB, The Folic Acid, Vitamin B12, and One-Carbon Metabolism Conference (2020).

- Trimethylamine-N-Oxide (TMAO) is not associated with average daily intake of red meat or TMAO-precursor foods in a generally healthy population (Poster). American Society of Nutrition (2020).
- Utilization of a high-choline diet elicits genetic loci associated with TMAO (Speaker). GGNB Research Symposium (2019).
- Habitual beef consumption, plasma TMAO, and risk factors for Cardiovascular Disease (Poster). Aligning the Food System for Improved Nutrition in Animal Sourced Foods Conference (2019).

Fellowships and Grants

- Mar Family Dissertation Award (2021-2022).
- Leaders for the Future Fellow (2021-2022).
- Kirvin Knox Nutritional Biology Fellowship (2020).
- Henry A. Jastro Scholarship (2018-2019, 2019-2020).
- GGNB Fellowship (2017-2018).

Selected Lectures and Presentations

- Diet, fecal microbiome, and trimethylamine n-oxide in a cohort of metabolically healthy United States adults. GGNB New Student Recruitment (2022).
- Systems genetic studies of TMAO regulation and atherosclerosis. GGNB New Student Recruitment (2020).
- Utilization of a high-choline diet elicits genetic loci associated with TMAO. GGNB Research Symposium (2019).

Teaching

- Discoveries and Concepts in Nutrition: teaching assistant. University of California, Davis (2019-2020).

Mentoring

- Korrie Tugal. Trained and mentored undergraduate student intern who assisted in mouse work and experimental protocols (2020-2021).
- Nola Carter. Nutritional Biology Graduate Admissions Pathways Program (2020). *Program provides students with experiences in nutritional biology research with the goal of increasing the number of scientists from underrepresented groups.*

Academic Service

- GGNB Student Advisory Committee: President (2020-2021), Vice-President (2019-2020), Outreach Coordinator (2018-2019).
- UC Davis Graduate Student Association: Representative (2018-2019, 2019-2020), Alternate Representative (2017-2018).

References

- Brian J. Bennett (Doctoral mentor)
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