GAR YEE KOH

Texas State University
School of Family and Consumer Sciences FCS 297A
601 University Dr., San Marcos, TX 78666
ORCID: 0000-0002-2783-1723
512-245-0199 | g_k70@txtstate.edu

Academic/Professional Background

Educational Background

Degree	*Year*	*University*	*Major*
PHD	2015	Iowa State University	Nutritional Sciences
MS	2009	Louisiana State Univ A&M College	Forestry
BS	2007	Louisiana State Univ A&M College	Nutrition and Food Sciences

Relevant Professional Experience

Position	*Entity*	*Dates*
Assistant Professor	School of Family and Consumer Sciences, Texas State University, San Marcos, TX, United States	January 1, 2021 - Present
Postdoctoral Associate	Citrus Research and Educational Center, University of Florida, Lake Alfred, FL, United States	August 2019 - December 2020
Postdoctoral Associate	Vitamins and Carcinogenesis Lab, Jean Mayer USDA Human Nutrition Research Center on Aging, Boston, MA, United States	September 2015 - June 2019
Visiting Scientist	Koch Institute, Massachusetts Institute of Technology, Cambridge, MA, United States	January 15, 2015 - May 20, 2015
Research Associate	School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA, United States	January 1, 2010 - July 20, 2012

TEACHING

Courses Taught:

Texas State University:

NUTR 3362 - NUTRITION & HEALTH

NUTR 3367 - NUTR PHYSIOLOGY

NUTR 5199B - THESIS

NUTR 5305 - NUTRITION DISEASE

NUTR 5355 - ADV IND STUDY NUTR

NUTR 5399A - THESIS

NUTR 5399B - THESIS

Other Institutes:

Guest Lecture, KH 304 Advanced Nutrition Course, Department of Kinesiology and Health at Miami University. Oxford, OH, United States. 30. (February 15, 2021).

Additional Comments: Virtual lecture were given on topic "Dietary Fiber" in Spring 2021. This was an invited lecture by Dr. Xian Wu, instructor for KH 304 at Miami University, Oxford, OH.

Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):
Supervisor/Chair

Master's Thesis

Jan 2026 – Present	Rachel Rousseau, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University. Master's Thesis, "Effect of maternal high-fat high-sugar diet on the gene expressions of vitamin D receptor in extra-renal tissues among offspring" Additional Comments: Student is currently enrolled in NUTR 5355B: Thesis B in Summer 2026. Anticipate thesis defense date on July 6, 2026. Student plans to graduate in Aug 2026. Student enrolled and completed NTUR 5355A: Thesis A in Spring 2026. Student successfully defended her thesis proposal on April 28, 2026.
Aug 2025 – May 2026	Lais Yuki Tuzino Kamia, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University. Master's Thesis, "Characterizing the effects of dietary fructooligosaccharides on metabolic outcomes and gut microbiota in high-fat diet-induced obese mice" Additional Comments: Student enrolled and completed NUTR 5355B: Thesis B in Spring 2026. Student successfully defended her thesis on April 3rd, 2026, and graduated in May 2026. Student enrolled and completed NTUR 5355A: Thesis A in Fall 2025 and successfully defended her thesis proposal on Sep 29, 2025.

Sep 2021 – May 2023	Chin May Teoh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University. Master's Thesis, "Methyl-donor nutrients supplementation to a high-fat high-sucrose diet during gestation and lactation alters vitamin D signaling and inflammatory status in offspring rats" Additional Comments: Student enrolled and completed NUTR 5355B: Thesis B in Spring 2023.Student successfully defended her thesis in April 2023 and graduated in May 2023. Student enrolled and completed NUTR 5355A: Thesis A in Fall 2022. Student successfully defended her thesis proposal on Nov 30, 2022. Student enrolled and completed NUTR 5355 - Advanced Independent Study in Spring 2022.
Sep 2021 – May 2024	Ethan Constantine, Graduate, M.S. in Biology, Department of Biology, Texas State University. Master's Thesis, "Characterization of gut microbiome in vitamin D supplemented C57BL/6J mice" Additional Comments: Co-supervise with Dr. Dana Garcia from the Department of Biology. Thesis proposal defense completed on Sept 30, 2022. Student successfully defended his thesis on April 10, 2024. Student enrolled and completed NUTR 5355: Advanced Independent Study in Fall 2022, which I supervised and provided training on laboratory skills, writing, and preparation of thesis.
Jan 2021 – May 2023	Karisa Renteria, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University. Master's Thesis, "Modulation of vitamin D status by gut microbiota: Impact on anxiety and depression-related behaviors in C57BL/6 mice" Additional Comments: Student successfully defended her thesis on Nov 11, 2022, and graduated in May 2023. Enrolled and completed NUTR 5399B: Thesis B in Fall 2022. Enrolled and completed NUTR 5399A: Thesis A in Spring 2022. Enrolled and completed NUTR 5355: Advanced Independent Study in Fall 2021.

Internship

Sep 2025 – Oct 2025	Samantha Wright, Graduate, M.S. in Human Nutrition. School of Family and Consumer Sciences, Texas State University.

Additional Comments: Dietetic intern completed her 6-week research rotation in my laboratory.

Oct 2024 – Nov 2024 — Kelly Brunelle, Graduate, M.S. in Human Nutrition. School of Family and Consumer Sciences, Texas State University.

Additional Comments: Dietetic intern completed her 6-week research rotation under my supervision.

Feb 2024 – April 2024 — Tyler Hanson, Graduate, M.S. in Human Nutrition. School of Family and Consumer Sciences, Texas State University.

Additional Comments: Dietetic intern completed her 6-week research rotation under my supervision.

Research Fellowship

Mar 2026 – May 2027 — Sophie Young, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.

Project's Title: "Fructooligosaccharide, a dietary fiber: Understanding the connection with cortisol and low- grade inflammation in obesity"

Additional Comments: Student was awarded the 2026 Undergraduate Research Fellowship by Texas State University under my supervision. The student was also a selected undergraduate student for 2025 SURGE Learning Communities.

May 2023 – May 2024 — Emily Butler, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.

Project's Title: "The Link Between Autoimmune Disease, Obesity and Vitamin D: Stopping Disease Development, Improving Patient Outcomes, and Saving More Lives"

Additional Comments: Student was awarded the 2024 Undergraduate Research Fellowship by Texas State University under my supervision. The student was also a selected undergraduate student for 2023 SURGE Learning Communities.

Mar 2022 – May 2023	Analynn Cooper, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University. Project's title "Effect of maternal high-fat high-sucrose diet on vitamin D status and gut microbiota in offspring" Additional Comments: Student was awarded the 2022 Undergraduate Research Fellowship by Texas State University under my supervision. Project was completed in Spring 2023. The student was also a selected undergraduate student for SURGE Learning Communities.

Honor's Thesis

Spring 2025	Emily Butler, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University. Thesis Title: "Effect of fructooligosaccharides on renal vitamin D signaling in high-fat diet-induced obese C57BL/6 mice." Status: Completed
Spring 2025	Lauren Lewis, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University. Thesis Title: " Fructooligosaccharide: A potential dietary strategy for obesity prevention." Status: Completed

Practicum

Jan 2025 – May 2025	Emily Butler, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
May 2024 – Aug 2024	Lauren Lewis, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University. Additional Comments: Practicum student enrolled in NUTR 4301: Career Exploration (Summer 2024)
May 2024 – Aug 2024	Zack Nobles, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University. Additional Comments: Practicum student enrolled in NUTR 4301: Career Exploration (Summer 2024)
Aug 2022 – Dec 2022	Alexis Zafereo, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.

	Additional Comments: Practicum student enrolled in NUTR 4301: Career Exploration (Fall 2022)
May 2022 – Aug 2022	Analynn Cooper, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
	Additional Comments: Practicum student enrolled in NUTR 4301: Career Exploration (Summer 2022)
May 2022 – July 2022	Hien (Titi) Nguyen, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
	Additional Comments: Practicum student enrolled in NUTR 4301 Career Exploration (Summer 2022)
<u>Volunteer Research Assistant</u>	
Jan 2026 – May 2026	Sophie Young, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
Jan 2026 – May 2026	Cecelia Fritze, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
June 2025 – Dec 2025	Rachel Rousseau, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Mar 2024 – May 2024	Lauren Lewis, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
Oct 2023 – May 2024	Zack Nobles, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
	Additional Comments: Selected undergraduate student for SURGE Learning Communities. Co-mentoring with Dr. Ramona Salcedo Price and Dr. Jie Zhu.
Oct 2023 – May 2024	Emily Butler, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.

	Additional Comments: Selected undergraduate student for SURGE Learning Communities. Co-mentoring with Dr. Ramona Salcedo Price and Dr. Jie Zhu.
Oct 2022 – May 2023	Spenser Bauer, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
	Additional Comments: Selected undergraduate student for SURGE Learning Communities. Co-mentoring with Dr. Ramona Salcedo Price and Dr. Jie Zhu.
Oct 2022 – May 2023	Nissi Lozano, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
	Additional Comments: Selected undergraduate student for SURGE Learning Communities. Co-mentoring with Dr. Ramona Salcedo Price and Dr. Jie Zhu.
Sep 2022 – Feb 2023	Hannah Ajala, Undergraduate, B.S. in Public Health, Department of Health and Human Performance, Texas State University.
Sep 2021 – Dec 2021	Sarah Webster, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University.
Sep 2021 – Dec 2021	Xitlally Martinez, Undergraduate, B.S. in B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University
	Additional Comments: Selected undergraduate student for SURGE Learning Communities. Co-mentoring with Dr. Ramona Salcedo Price and Dr. Jie Zhu.

Committee

<u>Dissertation and Master's Thesis</u>

Mar 2024 – Present	Emily Gonzales, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Feb 2024 – Present	Isabella Changsut, Graduate, PhD in Biology, Department of Biology, Texas State University.
Nov 2024 – May 2026	Cassandra Swanson, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.

Feb 2023 – May 2024	Jessie Waltenbaugh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Dec 2022 – May 2024	Elisa Pedone, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Nov 2022 – May 2023	Carley Rivers, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Sep 2022 – Dec 2022	Christopher M. Farber, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.

Teaching Grants and Contracts:

Funded Internal Teaching Grants and Contracts:

Koh, Gar Yee (Co-Principal), Percent Contribution: 33.3%, Salcedo, Ramona (Co-Principal), Percent Contribution: 33.3%, Zhu, Jie (Co-Principal), Percent Contribution: 33.3%. Supporting Undergraduates in Research to Gain Experience (SURGE) 2023, College of Applied Arts, Texas State University, $6,000.00. (Funded: October 31, 2025 - Present). Grant.

Zhu, Jie (Co-Principal), Percent Contribution: 33.3%, **Koh, Gar Yee** (Co-Principal), Percent Contribution: 33.3%, Salcedo, Ramona (Co-Principal), Percent Contribution: 33.3%. Supporting Undergraduates in Research to Gain Experience (SURGE) 2023, College of Applied Arts, Texas State University, $6,000.00. (Funded: August 31, 2023 - June 1, 2024). Grant.
The CAA Undergraduate Research Learning Communities Grant_Zhu letter-1.pdf

Koh, Gar Yee (Co-Principal), Percent Contribution: 33.3%, Zhu, Jie (Co-Principal), Percent Contribution: 33.3%, Salcedo Price, Ramona (Co-Principal), Percent Contribution: 33.3%. SURGE in Nutrition Research Learning Community, College of Applied Arts, Texas State University, $6,000.00. (Funded: August 12, 2022 - June 1, 2023). Grant.
CAA Undergrad Research Learning Communities Grant-SURGE 2022_Koh Zhu Price-1.pdf

Koh, Gar Yee (Co-Principal), Percent Contribution: 33.3%, Zhu, Jie (Co-Principal), Percent Contribution: 33.3%, Salcedo-Price, Ramona (Co-Principal), Percent Contribution: 33.3%. SURGE in Nutrition Research Learning Community, College of Applied Arts, Texas State University, $6,000.00. (Submitted: June 16, 2021, Funded: August 1, 2021 - June 30, 2022). Grant.
CAA Undergrad Research Learning Communities Grant 2021_JZ_GYK_MSP-1.pdf

Student Accomplishments:

Award

April 30, 2026 — Lais Yuki Tuzino Kamia, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University. College of Applied Arts Outstanding Graduate Student Award, Texas State University. (Role: Mentor/Supervisor)

May 31, 2025 — Emily Butler, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University. , Finalist of the Emerging Leaders in Nutrition Science Poster Competition. "Suppression of renal pro-inflammatory cytokines by fructooligosaccharides is associated with renal vitamin D signaling in high-fat diet-induced obese C57BL/6 mice," NUTRITION 2025 by American Society for Nutrition, Orlando, FL.
(Role: Mentor)

Additional Comments: NUTRITION 2025 is an international conference and also a flagship conference organized by the American Society for Nutrition. The Emerging Leaders in Nutrition Science Abstract Recognition Award Program recognized the top 10% highest scoring abstracts out of a total submission of~1000 abstracts. Abstracts were rated by more than 400 nutrition scientists.

July 23, 2023 — Chin May Teoh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University. Finalist of the NUTRITION 2023 Student Interest Group Three-Minute Thesis Competition. "Maternal Methyl Donor Nutrients Supplementation to A High-fat High-sucrose Diet Modulates Systemic Vitamin D Signaling and Renal Inflammation among Adult Offspring," NUTRITION 2023 by American Society for Nutrition, Boston, MA.
(Role: Mentor/Supervisor)

Additional Comments: Selected as one of the 6 finalists for the NUTRITION 2023 Three-Minute Thesis Competition. NUTRITION 2023 is an international conference and also a flagship conference organized by the American Society for Nutrition.

July 22, 2023 — Chin May Teoh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Finalist of the Emerging Leaders in Nutrition Science Poster Competition. "Maternal Methyl Donor Nutrients Supplementation to A High-fat High-sucrose Diet Modulates Systemic Vitamin D Signaling and Renal Inflammation among Adult Offspring," NUTRITION 2023 by American Society for Nutrition, Boston, MA.
(Role: Mentor/Supervisor)

Additional Comments: The Emerging Leaders in Nutrition Science Abstract Recognition Award Program recognized the top 10% highest

scoring abstracts out of a total submission of~1000 abstracts. Abstracts were rated by more than 400 nutrition scientists.

April 27, 2023 — Analynn Cooper, Undergraduate, B.S. in Nutrition and Foods. College of Applied Arts Outstanding Non-Traditional Undergraduate Award, Texas State University.
(Role: Mentor)

Nov 4, 2022 — Chin May Teoh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
2022 3MT® Finalist. "From mother to child: how prenatal diet affects vitamin D status among offspring?" Texas State University 3-minute Thesis Competition (3MT®), Texas State University.
(Role: Mentor/Supervisor)

May 11, 2022 — Analynn Cooper, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University
Scott Emerson Health Innovation Award.16th Annual Undergraduate Research Conference, Texas State University.
(Role: Mentor)

April 25, 2022 — Chin May Teoh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Finalist of the Emerging Leaders in Nutrition Science. NUTRITION 2022 LIVE ONLINE by American Society for Nutrition.
(Role: Mentor/Supervisor)

Additional Comments: The Emerging Leaders in Nutrition Science Abstract Recognition Award Program recognized the top 15% highest scoring abstracts out of a total submission of~700 abstracts. Abstracts were rated by more than 400 nutrition scientists.

April 8, 2022 — Chin May Teoh, Graduate, M.S. in Human Nutrition, School of Family and Consumer Sciences, Texas State University.
Top Presentation in the Master's Category. 2022 International Research Conference for Graduate Students, Texas State University.
(Role: Mentor/Supervisor)

Fellowship

Spring 2026 — Sophie Young, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University, 2024 Undergraduate Research Fellowship. " Fructooligosaccahride, a dietary fiber: Understanding the connection with cortisol and low- grade inflammation in obesity." Status: In Progress
(Role: Mentor/Supervisor)

Additional Comments: Selected awardee by Texas State University Undergraduate Research Fellowship. Sophie was awarded $1000 for

her research proposal and conducted her research under my supervision from Spring 2026 - Spring 2027.

Spring 2024 — Emily Butler, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University, 2024 Undergraduate Research Fellowship. "The Link Between Autoimmune Disease, Obesity and Vitamin D: Stopping Disease Development, Improving Patient Outcomes, and Saving More Lives." Status: Completed
(Role: Mentor/Supervisor)

Additional Comments: Selected awardee by Texas State University Undergraduate Research Fellowship. Emily was awarded $1000 for her research proposal and will be conducting her research under my supervision from Spring 2024 - Spring 2025.

Spring 2022 — Analynn Cooper, Undergraduate, B.S. in Nutrition and Foods, School of Family and Consumer Sciences, Texas State University
2022 Undergraduate Research Fellowship. "The effect of maternal high-fat diet on vitamin D status and gut microbiota in offspring" Status: Completed
(Role: Mentor/Supervisor)

Additional Comments: Selected awardee by Texas State University Undergraduate Research Fellowship. Analynn was awarded $1000 for her research proposal and conducted her research under my supervision from Spring 2022 - Spring 2023.

Teaching Professional Development Activities Attended:

Sep 4, 2025 — Seminar, "AI for Everyday Teaching: Getting Started with Gemini & NotebookLM", Center for Teaching, Learning, and Scholarship, Texas State University, San Marcos, TX.

Mar 1, 2022 — Seminar, "Successfully Supervising Graduate Students' Theses and Dissertations," Texas State University Graduate College, San Marcos, TX.

Jan 25, 2022 — Seminar, "Back to the Future: Re-engaging Students in the Post-Pandemic Classroom. Implements strategies in classroom to help students transition back to future successfully," Texas State University, San Marcos, TX.

Feb 5, 2021 — Workshop, "Teaching Online at Texas State (Hybrid Course)," Office of Distance and Extended Learning at Texas State University, San Marcos, TX.

Jan 7, 2021 Workshop, "CANVAS Basics," Texas State University, San Marcos, TX.

SCHOLARLY/CREATIVE

Works in Print (including works accepted, forthcoming, in press):

Refereed Journal Articles

1. Farber, C., Jackson, C., Renteria, K., Rivers, C., Ritter, J., Muraida, J., **Koh, G.Y.,** Zhu, J., Lane, M. A. (2026). Methyl donor nutrient supplementation fails to prevent the adverse effects of a maternal Western-style diet on depression-related behavior and results in stress-dependent effects on learning. *Nutrition*, *147*. https://doi.org/10.1016/j.nut.2026.113149

2. Guo, W., Santos, L. C., **Koh, G. Y**., Malamy, M., Hawley, A., Beachy, H., … Crott, J. W. (2026). Identification and characterization of a lipopolysaccharide binding, anti-inflammatory protein from Parabacteroides distasonis. *Gut Microbes*, *18*, 2650007. https://doi.org/10.1080/19490976.2026.2650007

3. Brunelle, K., Butler, E., Nobles, Z., Lewis, L., Hernandez, S., & **Koh, G. Y.** (2026). Fructooligosaccharide upregulates colonic vitamin D receptor and modulates inflammatory status in high-fat diet-induced obese C57BL/6 mice. *International Journal for Vitamin and Nutrition Research*, *96*(1), 45457. https://doi.org/10.31083/IJVNR45457

4. Hanson, T., Constantine, E., Nobles, Z., Butler, E., Renteria, K., Teoh, C. M., & **Koh, G. Y**. (2024). Supplementation of Vitamin D3 and Fructooligosaccharides Downregulates Intestinal Defensins and Reduces the Species Abundance of Romboutsia ilealis in C57BL/6J Mice. *Nutrients*, *16*(14). https://doi.org/10.3390/nu16142236

5. Renteria, K., Teoh, C. M., Constantine, E., Cooper, A., Lozano, N., Bauer, S., & **Koh, G. Y.** (2024). Combination of vitamin D3 and fructooligosaccharides upregulates colonic vitamin D receptor in C57BL/6J mice and affects anxiety-related behavior in a sex-dependent manner. *Nutrition Research*, *125*. Published. https://doi.org/10.1016/j.nutres.2024.02.003

6. Lee, H., **Koh, G. Y.,** Lee, H., Alves, P., Yokoyama, W., & Wang, Y. (2024). Discovery of a novel bioactive compound in orange peel polar fraction on the inhibition of trimethylamine and trimethylamine N-oxide through metabolomics approaches and in vitro and in vivo assays: Feruloylputrescine inhibits trimethylamine via suppressing cntA/B enzyme. *Journal of Agricultural and Food Chemistry*, *72*(14). https://doi.org/10.1021/acs.jafc.3c09005

7. Farber, C. M., Renteria, K., Ritter, J., Muraida, J., Rivers, C., McKenzie, A. L., Zhu, J., **Koh, G.Y.**, Lane, M. A. (2023). Comparison of maternal versus postweaning ingestion of a high fat, high sucrose diet on depression-related behavior, novelty reactivity, and corticosterone levels in young, adult rat offspring. *Behavioural Brain Research*, *455*, 114677. https://doi.org/10.1016/j.bbr.2023.114677

8. Renteria, K., Nguyen, H., & **Koh, G. Y**. (2023). The Role of Vitamin D in Depression and Anxiety Disorders: A Review of the Literature. *Nutritional Neuroscience*. Published. https://doi.org/10.1080/1028415X.2023.2186318

9. Teoh, C. M., Cooper, A., Renteria, K., Lane, M., Zhu, J., & **Koh, G. Y.** (2022). Supplementation of methyl-donor nutrients to a high-fat, high-sucrose diet during pregnancy and lactation normalizes circulating 25-dihydroxycholecalciferol levels and alleviates inflammation in offspring. *Metabolites*, *12*(12), 1252. https://doi.org/10.3390/metabo12121252

10. **Koh, G. Y.,** Rowling, M. J., & Pritchard, S. K. (2022). Possible implications of type 1 and type 2 taste receptors on obesity-induced inflammation. *Nutrition Review*, *80*(8), 1919–1926. https://doi.org/10.1093/nutrit/nuac007

11. Wu, X., Ueland, P. M., Roper, J., **Koh, G. Y**., Xu, L., Crott, J. W., … Mason, J. B. (2021). Combined supplementation with vitamin B-6 and curcumin is superior to either agent alone in suppressing obesity-promoted colorectal tumorigenesis in mice. *Journal of Nutrition*, *151*, 3678 – 3688. https://doi.org/10.1093/jn/nxab320

12. **Koh, G. Y.,** Kane, A., Wu, X., & Crott, J. W. (2020). Parabacteroides distasonis attenuates tumorigenesis, modulates inflammatory markers, and promotes intestinal barrier integrity in azoxymethane-treated A/J mice. *Carcinogenesis*, *41*(7), 909–917. https://doi.org/10.1093/carcin/bgaa018

13. Wu, X., **Koh, G. Y.**, Huang, Y., Crott, J. W., Bronson, R. T., & Mason, J. B. (2019). The combination of curcumin and salsalate is superior to either agent alone in suppressing pro-cancerous molecular pathways and colorectal tumorigenesis in obese mice. *Molecular Nutrition and Food Research*, *63*(8). https://doi.org/10.1002/mnfr.201801097

14. Pfalzer, A. C., Crott, J. W., **Koh, G. Y.,** Garcia, P., Smith, D., & Mason, J. B. (2018). Interleukin-1 signaling mediates obesity-promoted elevations in inflammatory cytokines, Wnt activation, and epithelial proliferation in the mouse colon. *Journal of Interferon and Cytokine Research*, *38*(10), 445 –451. https://doi.org/10.1089/jir.2017.0134

15. **Koh, G. Y.,** Kane, A., Lee, K., Xu, Q., Wu, X., Roper, J., … Crott, J. W. (2018). Parabacteroides distasonis attenuates toll-like receptor 4 signaling and Akt activation and blocks colon tumor formation in high-fat diet-fed azoxymethane-treated mice. *International Journal of Cancer*, *2018*. Published. https://doi.org/10.1002/ijc.31559

16. Wu, X., Pfalzer, A. C., **Koh, G. Y.,** Crott, J. W., Tang, S., Thomas, M. J., … Mason, J. B. (2017). Curcumin and salsalate suppresses colonic inflammation and pro-carcinogenic signaling in high-fat fed, azoxymethane-treated mice. *Journal of Agriculture and Food Chemistry*, *65*(33), 7200 –7209. https://doi.org/10.1021/acs.jafc.7b02648

17. **Koh, G. Y**., & Rowling, M. J. (2017). Resistant starch: A novel dietary strategy to maintain kidney health in diabetes mellitus. *Nutrition Review*, *75*(5), 350 –360. https://doi.org/10.1093/nutrit/nux006

18. **Koh, G. Y.,** Derscheid, R., Fuller, K., Valentine, R. J., Leow, S. E., Reed, L., … Rowling, M. J. (2016). Circulating adiponectin concentrations are increased by dietary

resistant starch and correlate with serum 25-hydroxycholecalciferol concentrations and kidney function in Zucker diabetic fatty rats. *Nutrition Research*, *36*, 311 –319. https://doi.org/10.1016/j.nutres.2015.12.006

19. **Koh, G. Y.,** Rowling, M. J., Schalinske, K. L., Grapentine, K., & Loo, Y. T. (2016). Consumption of dietary resistant starch partially corrected the growth pattern despite hyperglycemia and compromised kidney function in streptozotocin-induced diabetic rats. *Journal of Agricultural and Food Chemistry*, *64*(40), 7540 –7545. https://doi.org/10.1021/acs.jafc.6b03808

20. Sabet, J. A., Park, L. K., Lyer, L. K., Tai, A. K., **Koh, G. Y.**, Pfalzer, A. C., … Crott, J. W. (2016). Paternal B vitamin intake is a determinant of growth, hepatic lipid metabolism and intestinal tumor volume in female offspring. *Plos One*, *11*(3). https://doi.org/10.1371/journal.pone.0151579

21. Jones, S. K., **Koh, G. Y.,** Rowling, M. J., & Schalinske, K. L. (2016). Whole egg consumption prevents diminished serum 25-hydroxycholecalciferol concentrations in type 2 diabetic rats. *Journal of Agriculture and Food Chemistry*, *64*(1), 120–124. https://doi.org/10.1021/acs.jafc.5b04347
22. Liu, Z., Zhang, F., **Koh, G. Y**., Dong, X., Hollingsworth, J., Cartwright, C. A., … Stout, R. (2015). Cytotoxic and anti-angiogenic paclitaxel solubilized and permeation-enhanced by natural product nanoparticles. *Anti-Cancer Drugs*, *26*, 167–179. https://doi.org/10.1097/CAD.0000000000000173

23. **Koh, G. Y.,** Whitley, E., Mancosky, K., Loo, Y.-T., Grapentine, K., Bowers, E., … Rowling, M. J. (2014). Dietary resistant starch prevents urinary excretion of vitamin D metabolites and restores circulating 25-hydroxycholecalciferol concentrations in Zucker diabetic fatty rat. *Journal of Nutrition*, *144*(11), 1667–1673. https://doi.org/10.3945/jn.114.198200

24. Zhang, J., Liu, Z., & **Koh, G. Y.** (2014). In vitro cytotoxic and antioxidation of a whole fruit extract of Liquidambar formosana exerted by different constituents. *European Journal of Medicinal Plants*, *6*(1), 34. https://doi.org/10.9734/EJMP/2015/15280

25. Zhang, F., **Koh, G. Y.,** Hollingsworth, J., Russo, P., Stout, R., & Liu, Z. (2012). Reformulation of etoposide with solubility-enhancing rubusoside. *International Journal of Pharamceutics*, *434*, 453 – 459. https://doi.org/10.1016/j.ijpharm.2012.06.013

26. Zhang, F., **Koh, G. Y.,** Jeansonne, D. P., Hollingsworth, J., Stout, R., Russo, P. S., … Liu, Z. (2011). A novel solubility-enhanced curcumin formulation showing stability and maintenance of anti-cancer activity. *Journal of Pharmaceutical Sciences*, *100*(7), 2778–2789. https://doi.org/10.1002/jps.22512

27. Jeansonne, D. P., **Koh, G. Y.,** Zhang, F., Kirk-Ballard, H., Wolff, L., Liu, D., … Liu, Z. (2011). Paclitaxel-induced apoptosis is blocked by camptothecin in human breast and pancreatic cancer cells. *Oncology Report*, *25*, 1473–1480. https://doi.org/10.3892/or.2011.1187

28. **Koh, G. Y.,** McCutcheon, K., Zhang, F., Liu, D., Cartwright, C. A., Martin, R., … Liu, Z. (2011). Improvement of obesity phenotype by Chinese sweet leaf tea (Rubus suavissimus) components in high-fat diet-induced obese rats. *Journal of Agriculture and Food Chemistry*, *59*(1), 98–104. https://doi.org/10.1021/jf103497p

29. **Koh, G. Y.,** Chou, G., & Liu, Z. (2009). Purification of a water extract of Chinese sweet tea plant (Rubus suavissimus) by alcohol purification. *Journal of Agriculture and Food Chemistry*, *57*, 5000–5006. https://doi.org/10.1021/jf900269r

30. Chou, G., Xu, S., **Koh, G. Y.,** Liu, D., Zhang, J., & Liu, Z. (2009). Quantitative and fingerprint analyses of Chinese sweet tea plant (Rubus suavissimus S. Lee). *Journal of Agriculture and Food Chemistry*, *57*, 1076–1083. https://doi.org/10.1021/jf8029397

Other Works not in Print:

Works "submitted" or "under review"

Journal Articles

Works "in progress":

Journal Articles

1. Patterson, R. D., Khurana, F., Lee, N., Saikia, G., Ritter, J., **Koh, G. Y**., … Zhu, J. (In Preparation; Not Yet Submitted). Effect of Maternal Methyl-Donor Nutrients Supplementation During Pregnancy and Lactation on the Risk of Metabolic Disorders Among Offspring.

   Additional Comments: Metabolomic analyses in progress. Anticipate submission date by Spring 2026.

2. Tuzino Kamia, L. Y., Lewis, L., Nobles, Z., **Koh, G. Y**. (In Preparation; Not Yet Submitted). Characterizing the effects of dietary fructooligosaccharides on metabolic outcomes and gut microbiota in high-fat diet-induced obese mice.

   Additional Comments: Manuscript in preparation. Anticipate submission date by the end of Summer 2026.

3. Rousseau, R., Teoh, C.M., **Koh, G. Y.** (In Preparation; Not Yet Submitted). Maternal dietary patterns and vitamin D status in offspring.

   Additional Comments: Manuscript (narrative review) currently in preparation. Anticipate submission date by August 2026.

Abstracts:

1. Tuzino Kamia, L.Y., Lewis, L., Nobles, Z., **Koh, G.Y.** Fructooligosaccahride improve insulin and GLP-1 profiles and modulate colonic PI3K/Akt and GLP-1 receptor signaling in high-fat diet-induced obese mice. (Accepted/In press)

2. Brunelle, K., Butler, E., Nobles, Z., Lewis, L., & **Koh, G. Y.** (2025). Fructooligosaccharide upregulates colonic vitamin D receptors and modulates inflammatory status in high-fat diet-induced obese male C57BL/6 mice. *Current Developments in Nutrition*, *9* (Supplement 2), 107416. https://doi.org/10.1016/j.cdnut.2025.107416

3. Butler, E., Brunelle, K., Nobles, Z., & **Koh, G. Y.** (2025). Suppression of renal pro-inflammatory cytokines by fructooligosaccharides is associated with renal vitamin D signaling in high-fat diet-induced obese C57BL/6 mice. *Current Developments in Nutrition*, *9* (Supplement 2), 107403. https://doi.org/10.1016/j.cdnut.2025.107403.

4. **Koh, G. Y**., Butler, E., & Nobles, Z. (2024). Combination effects of fructooligosaccharides and vitamin D on antimicrobial peptides expressions in the small intestine. *Current Developments in Nutrition*, *8*. 10.1016/j.cdnut.2024.103741 Koh_Combination effects of fructooligosaccharides and vitamin D on antimicrobial peptides expressions in the small intestine-1.pdf

5. Bauer, S., Lozano, N., Teoh, C. M., Constantine, E., Cooper, A., Renteria, K., & **Koh, G. Y.** (2023). Characterize the combination effects of prebiotic fiber and vitamin D on systemic and colonic vitamin D signaling in mice. *Current Developments in Nutrition*, *7*(Supp 1), 757. Bauer_Characterize the combination effects of prebiotic fiber and vitamin D on systemic and colonic vitamin D signaling-1.pdf

6. Cooper, A., Teoh, C. M., Renteria, K., Lane, M., Zhu, J., & **Koh, G. Y.** (2023). Colonic content from offspring born to dams of high-fat high-sucrose diet modulates IL-8 secretion in Lipopolysaccharide-stimulated HT-29 cells. *Current Developments in Nutrition*, *7*(Supp 1), 761. Cooper_Colonic content from offspring born to dams of HFHS diet modulates IL-8 secretion-1.pdf

7. Teoh, C. M., Cooper, A., Lane, M., Zhu, J., & **Koh, G. Y.** (2023). Maternal methyl donor nutrients supplementation to a high-fat high-sucrose diet modulates systemic vitamin D signaling and renal inflammation among adult offspring. *Current Developments in Nutrition*, *7*(Supp 1), 752. Teoh_Maternal methyl donor nutrients supplementation and renal inflammation-1.pdf

8. Teoh, C. M., Renteria, K., Cooper, A., Zhu, J., Lane, M., & **Koh, G. Y.** (2022). Supplementation of a high-fat high-sucrose diet with methyl-donor nutrients during pregnancy and lactation modulates the colonic vitamin D signaling pathway in weaned rats. *Current Developments in Nutrition*, *6*(1), 1195. https://doi.org/https://doi.org/10.1093/cdn/nzac074.024 Teoh_Supplementation of HFHS diet with MS Nutrients during pregnancy and lactation modulates colonic vitamin D signaling-1.pdf

9. **Koh, G. Y**., Kane, A. V., Wu, X., Mason, J. B., & Crott, J. W. (2019). Parabacteroides distasonis attenuates tumorigenesis, modulates inflammatory markers and promotes intestinal barrier integrity in azoxymethane-treated mice. *Current Development in Nutrition*, *3*(1). https://doi.org/10.1093/cdn/nzz030.OR04-02-19
Koh_P distasonis attenuates tumorigenesis modulates inflammatory markers and promotes intestinal barrier-1.pdf

10. Wu, X., Pfalzer, A. C., **Koh, G. Y.**, Crott, J. W., Tang, S., Thomas, M. J., … Mason, J. B. (2018). Oral administration of curcumin and salsalate attenuates high fat diet-induced up-regulation of pro-inflammatory colonic cytokines and suppresses Akt/NF-kB signaling in azoxymethane-treated mice. *FASEB Journal*, *31*(S1), 46.6. https://doi.org/10.1096/fasebj.31.1_supplement.46.6

    Additional Comments:
    https://faseb.onlinelibrary.wiley.com/doi/10.1096/fasebj.31.1_supplement.46.6

11. **Koh, G. Y**., Kane, A. V., Lee, K., Xu, Q., Wu, X., Mason, J. B., & Crott, J. W. (2018). Parabacteroides distasonis attenuates colonic inflammation and prevents tumor formation in azoxymethane-treated high-fat diet-fed mice. *FASEB Journal*, *31*(1), 435.2. https://doi.org/10.1096/fasebj.31.1_supplement.435.2

    Additional Comments:
    https://faseb.onlinelibrary.wiley.com/doi/abs/10.1096/fasebj.31.1_supplement.435.2

12. **Koh, G. Y.,** Leow, S. E., Reed, L., Wisecup, E., & Rowling, M. J. (2015). Maintenance of vitamin D status in Zucker diabetic fatty rats by dietary resistant starch is dependent on colonic fermentation. *FASEB Journal*, *29*(1). https://doi.org/10.1096/fasebj.29.1_supplement.758.6

13. **Koh, G. Y.,** Mancosky, K., Loo, Y.-T., Grapentine, K., Bowers, E., & Rowling, M. J. (2014). Dietary resistant starch prevents urinary excretion of vitamin D metabolites and restores circulating 25-hydroxycholecalciferol concentrations in the Zucker diabetic fatty rat. *FASEB Journal*, *28*(1). https://doi.org/10.1096/fasebj.28.1_supplement.1041.3

Other Works in Print:

Newsletters

1. **Koh, G. Y.,** & Liu, Z. (2011). Medicinal plant research: validating nature's formulation for a healthier body weight. *School of Renewable Natural Resources Newsletter*. Louisiana State University.

2. Liu, Z., **Koh, G. Y.,** Jeansonne, D., Stout, R., Liu, D., & Enright, F. (2011). Medicinal Plants and Cancer: Solubility-enhanced reformulation of paclitaxel, an old drug. *Louisiana Agriculture*.

Invited Talks, Lectures, and Presentations:

1. **Koh, G. Y.** (Presenter), Working in Nutritional Sciences (WINS), "Vitamin D Status: Role of Maternal Diet," FCS Nutrition and Foods Program, Online. (February 17, 2023).

   Additional Comments: WINS is a casual brown bag luncheon seminar that allows graduate students and professors to discuss research within the nutrition research. Invited for a short talk on research work on Feb 17, 2023.

2. Teoh, C. M. (Presenter), Renteria, K., Cooper, A., Zhu, J., Lane, M., **Koh, G. Y.** (Author - Corresponding), Nutrition 2022 LIVE ONLINE, "Supplementation of a High-Fat High-Sucrose Diet With Methyl-Donor Nutrients During Pregnancy and Lactation Modulates the Colonic Vitamin D Signaling Pathway in Weaned Rats," American Society for Nutrition. (April 11, 2022).
   ASN Conference Presentation_Teoh-2.pdf

3. **Koh, G. Y.** (Presenter), "Manipulating gut microbiota using orange peel: A strategy for Cardiovascular Disease Prevention," Lake Alfred, FL, United States. (October 2020).

4. **Koh, G. Y.** (Presenter), Tufts Volunteer Leadership Summit, "Gut bacteria against inflammation," Tufts University, Boston, MA, United States. (October 2017).

5. **Koh, G. Y.** (Presenter), Experimental Biology Conference 2017, "Parabacteroides distasonis attenuates colonic inflammation and prevents tumor formation in azoxymethane-treated high-fat diet-fed mice," American Society for Nutrition, Chicago, IL, United States. (April 2017).

6. **Koh, G. Y.** (Presenter), "Anti-inflammatory effect of Parabacteroides distasonis," Antioxidants Research Laboratory, HNRCA at Tufts University, Boston, MA, United States. (March 2016).

7. **Koh, G. Y.** (Presenter), Experimental Biology Conference 2014, "Dietary resistant starch prevents urinary excretion of vitamin D metabolites and restores circulating 25-hydroxycholecalciferol concentrations in the Zucker diabetic fatty rat," American Society for Nutrition, San Diego, CA, United States. (April 2014).

Posters:

1. Tuzino Kamia, L. Y. (Presenter/Lead Author), Lewis, L. (Author), Nobles, Z. (Author), **Koh, G. Y.** (Corresponding Author), NUTRITION 2026, "Fructooligosaccharides improve Insulin and GLP-1 profiles and modulate colonic PI3K/Akt and GLP-1 receptor signaling in high-fat diet-induced obese mice," American Society for Nutrition, National Harbor, MD, United States. (July 25, 2026).

2. Fritze, C. (Presenter/Lead Author), Young, S. (Presenter/Lead Author), **Koh, G. Y.** (Corresponding Author), Undergraduate Research Conference, "Optimization of RNA extraction method from mouse adipose tissue," Texas State University. (April 22, 2026).

3. Tuzino Kamia, L. Y. (Presenter/Lead Author), Lewis, L. (Author), Nobles, Z. (Author), **Koh, G. Y.** (Corresponding Author), Graduate Student Research Conference, "Fructooligosaccharides improve insulin and GLP-1 profiles and modulate colonic PI3K/Akt signaling in high-fat diet-induced obese mice," Texas State University, San Marcos, TX, United States. (April 9, 2026).

4. Patterson, R. D. (Presenter/primary author), Pilcher, R. (Co-author), Saikia, G. (Co-author), Khurana, F. (Co-author), Lane, M. A. (Co-author), **Koh, G. Y.** (Co-author), Zhu, J. (Corresponding author), NUTRITION 2024, the American Society for Nutrition's annual flagship meeting, "Effect of Maternal Methyl-Donor Nutrients Supplementation to an Obesogenic Diet on Hepatic Lipolytic Gene Expression and Trimethylamine N-oxide Among Offspring," American Society for Nutrition, Orlando, FL, United States. (June 1, 2025).

5. Brunelle, K. (Presenter/Lead Author), **Koh, G. Y.** (Corresponding Author), Butler, E. (Author), Nobles, Z. (Author), Lewis, L. (Author), NUTRITION 2025, "Fructooligosaccharide upregulates colonic vitamin D receptors and modulates inflammatory status in high-fat diet-induced obese male C57BL/6 mice," American Society for Nutrition, Orlando, FL, United States. (June 1, 2025).

6. Butler, E. (Presenter/Lead Author), **Koh, G. Y.** (Corresponding Author), Brunelle, K. (Author), Nobles, Z. (Author), NUTRITION 2025, "Suppression of renal pro-inflammatory cytokines by fructooligosaccharides is associated with renal vitamin D signaling in high-fat diet-induced obese C57BL/6 mice," American Society for Nutrition, Orlando, FL, United States. (June 1, 2025).

7. Swanson, C. M. (Presenter/Lead Author), J. R. (Author), Gonzalez, E. (Author), **Koh, G. Y**. (Author), Salcedo, R. (Corresponding Author), NUTRITION 2025, "Characterizing the Effects of Vitamin D Deficiency on the Gut-Liver Axis in the Context of Obesity: An In Vivo Model," American Society for Nutrition, Orlando, FL. (May 31, 2025).

8. Brunelle, K. (Presenter/Lead Author), Butler, E. (Author), Nobles, Z. (Author), Lewis, L. (Author), **Koh, G. Y.** (Corresponding Author), Graduate Student Research Conference, "Fructooligosaccharide upregulates colonic vitamin D receptors and modulates inflammatory status in high-fat diet-induced obese male C57BL/6 mice," Texas State University. (February 20, 2025).

9. **Koh, G. Y**. (Corresponding Author), Nobles, Z. (Author), Butler, E. (Author), NUTRITION 2024, "Combination effects of fructooligosaccharides and vitamin D on antimicrobial peptides expressions in the small intestine," American Society for Nutrition, Chicago, IL, United States. (July 1, 2024).

10. Patterson, R. D. (Presenter/primary author), Skinner, C. (Co-author), Saikia, G. (Co-author), Khurana, F. (Co-author), Lee, N. (Co-author), Suh, J. H. (Co-author), Lane, M. A. (Co-author), **Koh, G. Y**. (Co-author), Zhu, J. (Corresponding author), NUTRITION 2024, the American Society for Nutrition's annual flagship meeting, "Effect of maternal methyl-donor nutrients supplementation to a high-fat, high-sucrose diet during pregnancy and lactation on the risk of glycolipid disorders among offspring," American Society for Nutrition, Chicagp, IL, United States. (June 30, 2024).

11. Constantine, E. (Presenter/Lead Author), Renteria, K. (Author), **Koh, G. Y.** (Corresponding Author), DiscoverBMB 2024, "The role of gut microbiota in modulating intestinal barrier integrity in vitamin D-supplemented C57BL/6 mice," American Society for Biochemistry and Molecular Biology, San Antonio, TX, United States. (March 24, 2024).

12. Lane, M. A., Farber, C. M. (Author), Zhu, J. (Author), **Koh, G. Y**. (Author), Renteria, K. (Author), Ritter, J. (Author), Muraida, J. (Author), Rivers, C. (Author), McKenzie, A. (Author), Translational Health Showcase, "Effect of maternal methyl-donor nutrients supplementation to a high-fat, high-sucrose diet during pregnancy and lactation on the risk of glycolipid disorders among offspring," Texas State University. (March 1, 2024).

13. Lane, M. A. (Presenter/author), Farber, C. M., Zhu, J. (author), **Koh, G. Y**. (author), Renteria, K. (author), Ritter, J., Muraida, J., Rivers, C., McKenzie, A. L., Interdisciplinary Nutrition Sciences Symposium: Obesity and the brain across the life course, "Methyl donor nutrient supplementation during early life does not prevent the detrimental effects of a Western-type diet on behavior but does alter learning and memory," University of North Carolina, Chapel Hill, University of North Carolina, Chapel Hill, NC, United States. (September 13, 2023).

14. Teoh, C. M. (Presenter/Lead author), Cooper, A. (Author), Lane, M. (Author), Zhu, J. (Author), **Koh, G. Y.** (Corresponding Author), Graduate Student Research Conference, "Effects of methyl-donor nutrients supplementation during pregnancy and lactation on systemic vitamin D signaling and renal TLR4 expression among adult offspring rats ," Texas State University, San Marcos, TX, United States. (April 2023).

15. Lane, M. A. (Presenter/Author), Farber, C. M. (Author), Renteria, K. (Author), Ritter, J. (Author), Muraida, J. (Author), Rivers, C. (Author), **Koh, G. Y.** (Author), Zhu, J. (Author), Health Scholar Showcase, "Maternal Consumption of a Western-type Diet During Gestation and Lactation Increases Depression-Related Behavior and Novelty Reactivity but not Body Weight in Rat Offspring," Texas State University, Texas State University, San Marcos. (April 2023).

16. Lozano, N. (Presenter/Lead Author), Bauer, S. (Presenter/Lead Author), **Koh, G. Y.** (Corresponding Author), Undergraduate Research Conference 2023, "Characterize the combination effects of prebiotic fiber and vitamin D on systemic and colonic vitamin D signaling in mice," Texas State University, San Marcos, TX. (March 2, 2023).

17. Cooper, A. (Presenter), Teoh, C. M. (Author), Renteria, K. (Author), Zhu, J. (Author), Lane, M. (Author), **Koh, G. Y.** (Corresponding Author), Undergraduate Research Conference 2023, "Supplementation of methyl-donor nutrients to a high-fat, high-sucrose diet during pregnancy and lactation normalizes vitamin D status and alters the abundance of Lactobacillus spp. in offspring rats," Texas State University, San Marcos, TX. (March 2, 2023).

18. **Koh, G. Y.** (Presenter/Lead Author), Renteria, K. (Author), Constantine, E. (Author), Teoh, C. M. (Author), Cooper, A. (Author), Health Scholar Showcase, "Modulation of Vitamin D Status by Gut Microbiota: Impact on Depression and Anxiety-related

Behavior in Adult C57BL/6J Mice," Texas State University Translational Health Research Center, Texas State University, San Marcos, TX, United States. (February 9, 2023).

19. Teoh, C. M. (Presenter/Lead Author), Renteria, K. (Co-author), Cooper, A. (Co-author), Zhu, J. (Co-author), Lane, M. (Co-author), **Koh, G. Y.** (Author - Corresponding), 24th Vitamin D Workshop 2022, "Methyl-donor nutrients supplemented to a high-fat high-sucrose diet during pregnancy and lactation alters colonic vitamin D signaling and inflammatory status among offspring rats," Austin, TX, United States. (September 8, 2022).

    Additional Comments: Abstract was selected among the top-ranking for a plenary poster session and a 3-min flask talk presentation at the workshop (Top 15% out of 100 abstracts)

20. Cooper, A. (Presenter/Lead Author), Teoh, C. M. (Co-author), Renteria, K. (Co-author), Lane, M. (Co-author), Zhu, J. (Co-author), **Koh, G. Y.** (Author - Corresponding), 24th Vitamin D Workshop 2022, "Supplementation of methyl-donor nutrients to a high-fat, high sucrose diet during pregnancy and lactation normalizes vitamin D status and alters the abundance of Lactobacillus spp. in offspring rats," Austin, TX, United States. (September 8, 2022).
    Additional Comments: Abstract was selected for poster presentation.

21. Cooper, A. (Presenter/Lead Author), Teoh, C. M. (Co-author), Renteria, K. (Co-author), J. (Co-author), Lane, M. (Co-author), **Koh, G. Y.** (Author - Corresponding), Undergraduate Research Conference, "Supplementation to a high-fat, high-sucrose diet during pregnancy and lactation alters vitamin D status in offspring rats at weaning," Texas State University, San Marcos, TX. (April 26, 2022).

    Additional Comments: Analynn Cooper was an undergraduate student working under my supervision. She was the lead author and presenter for this poster presentation. Her abstract also led her to be selected as the winner of 2022 Scott Emerson Health Innovation Award.

22. Teoh, C. M. (Lead author/Presenter), Renteria, K. (Co-author), Cooper, A. (Co-author), Zhu, J. (Co-author), Lane, M. (Co-author), **Koh, G. Y.** (Author - Corresponding), International Research Conference, "Effects of Methyl-donor Nutrients Supplemented to A High-fat Diet during Pregnancy and Lactation on Colonic Vitamin D Signaling and Inflammation," Texas State University Graduate College, San Marcos, TX. (April 8, 2022).

    Additional Comments: Chin May Teoh (Graduate student) was a presenter and lead author for this abstract/poster presentation under my guidance. She was also selected as the **Top Presentation in the Master's Category.**

23. Liou, D. C. K. (Presenter/Lead Author), **Koh, G. Y.** (Author), Landsman, A. S. (Author), American College of Food and Ankle Surgeons Annual Meeting 2019, "Novel method to determine MMP-9/TMP-1 ratio for predicting wound healing ability using an Enzyme Linked Immunosorbent Assay (ELISA)," American College of Food and Ankle Surgeons, New Orlean, LA, United States. (February 2019).

24. **Koh, G. Y.** (Presenter/Lead Author), American Society for Nutrition Scientific Sessions and Annual Meeting, "Short term administration of Parabacteroides distasonis attenuates obesity-induced colonic inflammation in high-fat diet-fed mice.," American Society for Nutrition, Boston, MA, United States. (June 2018).

25. **Koh, G. Y.** (Presenter), PepsiCo Journey through Science Day, "Attenuation of obesity-induced colonic inflammation and tumorigenesis by Parabacteroides distasonis," PepsiCo and New York Academy of Sciences. 2016, New York, NY, United States. (2016).

26. **Koh, G. Y.** (Presenter/Lead Author), Nutrition Society of Malaysia 30th Scientific Conference, 2015, "Maintenance of vitamin D status in Zucker diabetic fatty rats by dietary resistant starch is dependent on kidney health and serum adiponectin levels.," Nutrition Society of Malaysia, Kuala Lumpur, Malaysia. (2015).

27. **Koh, G. Y.** (Presenter/Lead Author), 17th Vitamin D Workshop 2014, "Dietary resistant starch prevents urinary excretion of vitamin D metabolites and restores circulating 25-hydroxycholecalciferol concentrations in the Zucker diabetic fatty rat," Chicago, IL, United States. (June 2014).

Scholarly / Creative Grants and Contracts:

Submitted/Under Review

Submitted, but not Funded

1. Zhu, Jie (Principal), Percent Contribution: 65%, **Koh, Gar Yee** (Supporting), Percent Contribution: 35%. Maternal methyl-donor nutrients and obesogenic diet in offspring metabolic disorders development: exploring mechanistic alteration in glucolipid metabolic pathways and gut microbiota, NIH, Federal, $595,536.00. (Submitted: September 27, 2024). Grant.

2. **Koh, Gar Yee** (Principal), Percent Contribution: 100%. Optimizing vitamin D status for prevention of aging-associated damage and inflammation, American Federation for Aging Research, Private / Foundation / Corporate, $150,000.00. (Submitted: December 6, 2022). Grant.
   Koh Gar Yee-1.pdf

3. **Koh, Gar Yee** (Principal), Percent Contribution: 100%. Optimize vitamin D balance with dietary fiber: implication on obesity-induced intestinal inflammation, Kenneth Rainin Foundation, Private / Foundation / Corporate, $123,994.00. (Submitted: Sep 16, 2022). Grant.
   Koh_Kenneth Rainin Foundation_LOI_Sep2022-1.pdf

4. Hayat, Khizar (Principal), Percent Contribution: 60%, Wu, Xian (Co-Principal), Percent Contribution: 33.3%, **Koh, Gar Yee** (Co-Principal), Percent Contribution: 6.7%. Probiotic encapsulation using prebiotic-rich fruit peel extract for improved in vitro survival and storage stability in synbiotic beverages., U.S. Department of Agriculture-NIFA, Federal, $156,457.00. (Submitted: June 10, 2021). Grant.

Funded Grants and Contracts

1. **Koh, Gar Yee** (Principal), Percent Contribution: 100%. Optimizing vitamin D status with prebiotic fiber – a novel strategy for prevention of obesity-induced gut inflammation, Texas State University, $8,000.00. (Funded: January 2024 - May 2025). Internal Grant.

2. Huertas Pau, Maria del Mar (Principal), Percent Contribution: 75%, Lu, Yuan (Co-Principal), Percent Contribution: 5%, Fuess, Lauren (Co-Principal), Percent Contribution: 5%, Peterson, Ryan (Co-Principal), Percent Contribution: 5%, **Koh, Gar Yee (Co-Principal), Percent Contribution: 5%,** Gracia, Dana (Co-Principal), Percent Contribution: 5%. MARK:Acquisition of tissue processing and embedding machines to produce fixed-paraffin-embedded blocks of biological tissues, Texas State University, $52,500.00. (Submitted: September 2022). Internal Grant.
Status: Funded, Sep 2022 – Feb 2023.

3. Zhu, Jie (Co-Principal), Percent Contribution: 50%, **Koh, Gar Yee** (Co-Principal), Percent Contribution: 50%. Effect of maternal methyl-donor nutrients supplementation during pregnancy and lactation on the risk of cardiometabolic disorders among offspring, Research Enhancement Program, Texas State University, $13,370.00. (Funded: December 3, 2021 - June 30, 2023). Internal Grant.

Scholarly / Creative Fellowships, Awards, Honors:

May 2017	Award / Honor Recipient: Hamish N. Munro Award for Excellence in Post-Doctoral Research, Jean Mayer USDA HNRCA at Tufts University.
Dec 2015	Award / Honor Recipient: Research Excellence Award, Iowa State University.
Dec 2014	Award / Honor Recipient: Graduate Student Research Award, American Society for Nutrition.

Scholarly / Creative Professional Development Activities Attended:

May 2025 – Jun 2025	Conference Attendance, "Nutrition 2025," American Society for Nutrition, Orlando, FL, United States. (May 31, 2025 - Jun 3, 2025).

Nov 2024	Virtual Conference, "Future of Microbiome Winter Summit 2024." (November 19, 2024 - November 21, 2024).
Jun 2024 – Jul 2024	Conference Attendance, "Nutrition 2024," American Society for Nutrition, Chicago, IL, United States. (June 29, 2024 - July 2, 2024).
May 2024	Workshop on Precision Nutrition to Promote Healthy Aging, National Institute on Aging. (Virtual; May 7, 2024 – May 8, 2024).
Dec 14, 2022	Seminar, "Gut Feelings - Examining the Prebiotic Gut Brain Connection," Global Prebiotic Association. (December 14, 2022).
Sep 2022	Conference, "Vitamin D Workshop" Austin, TX, United States. (Sep 6, 2022 – Sep 9, 2022).
Jun 2022	Conference, "Nutrition 2022", American Society for Nutrition. (Jun 14, 2022 – Jun 16, 2022)
Sep 2021 – Mar 2022	Monthly Workshop, "Scholarship & Teaching Excellence Program," Office of Faculty Development, San Marcos, TX.
Dec 2021	Seminar, "Future of the Microbiome," Trust Transparency Center and Nutraceutic. (Dec 7, 2021 – Dec 9, 2021)
July 28, 2021	Seminar, "Gut Check: What you need to know about the microbiome and nutrition," American Society for Nutrition and American Society for Microbiology.
Mar 24, 2021	Seminar, "Conversations in Nutrition & Obesity Research," American Society for Nutrition, United States.
Mar 5, 2021	Workshop, "R-workshop," School of Family and Consumer Sciences at Texas State University, San Marcos, TX.
Jun 1, 2020 – Jun 4, 2020	Conference, "Nutrition 2020," American Society for Nutrition.

SERVICE

Institutional

University

Oct 2025 – Present	Member, Lab Safety Committee

College

Sep 2024 – Present	Member, Research Enhancement Program FY25.

Department/School

Sep 2025 – Present Co-Chair, Working in Nutritional Sciences (WINS)

Additional Comments: WINS is a casual monthly brown bag luncheon seminar within the Nutrition and Foods Program that allows graduate students and professors to discuss research within nutrition research. I serve as the co-chair of WINS to plan and coordinate the seminar series.

Sep 2024 – Present Member, Search Committee - Assistant Professor.

Additional Comments: Search committee member for faculty position at Assistant/Associate level in Nutrition and Foods Program, School of Family and Consumer Sciences.

Sep 2022 – Present Member, FCS Curriculum Committee.

Sep 2022 – Dec 2022 Member, Search Committee – Lecturer.

Additional Comments: Search committee member for Lecturer position in Nutrition and Foods Program, School of Family and Consumer Sciences.

Sep 2022 – May 2022 Member, Search Committee - Associate/Full Professor.

Additional Comments: Search committee member for Associate/Full Professor position in Nutrition and Foods Program, School of Family and Consumer Sciences.

Aug 2022 – May 2022 Member, Search Committee - Assistant/Associate Professor.

Additional Comments: Search committee member for faculty position at Assistant/Associate level in Nutrition and Foods Program, School of Family and Consumer Sciences.
Outcome: Dr. Lauren Butler was hired as an Assistant Professor. She is starting in Fall 2022.

Professional

Editor/Editorial Board Member

April 1, 2022 – Present Guest Editor, *Metabolites* (Journal Impact Factor: 5.581)
Editor-Certificate-424068-1.pdf
Additional Comments: Serving as a Guest Editor for a Special Issue "Effect of Diets on Vitamin D Metabolism: Implications in Health and Disease".

Sep 23, 2021 – Present Editorial Review Board Member, *BMC Nutrition.* (Journal Impact Factor: 2.70)

Sep 1, 2019 – Present — Editorial Review Board Member, *Nutrients*. (Journal Impact Factor: 5.7)

Reviewer / Referee

Cells

Gut Microbes

Scientific Reports

Nutrition Reviews

Clinical Nutrition

Journal of Animal Science and Biotechnology

Nutritional Neuroscience

Frontiers in Nutrition

Frontiers in Chemistry

Nutrients

Nutrition Research

Journal of Medicinal Food

Food and Function

Food and Nutrition Research

Journal of Agricultural and Food Chemistry

Abstract Reviewer

NUTRITION 2026 by American Society for Nutrition

NUTRITION 2025 by American Society for Nutrition

NUTRITION 2024 by American Society for Nutrition

Attendee / Participant

Mar 4, 2022 — Mentor, Virtual Mentoring Event, Vitamins and Minerals Research Interest Group, American Society for Nutrition.

Additional Comments: I served as a Mentor (represents academic sector) for this virtual mentoring event held by ASN's Vitamin and Minerals Research Interest Group. This meeting aimed to provide trainees at all levels an opportunity to expand their professional networks in the continued absence of the ability to meet in person.

Community:

Sep 2017 – May 2019	Board of Directors, Associate for Women in Science, Boston, MA.
Sep 2017 – May 2019	Co-Chair, Association for Women in Science - Mentoring Committee, Boston, MA. Additional Comments: Co-chair to Mentoring Committee of Association of Women in Science, Massachusetts Chapter. Managed, organized, and planned mentoring events for ~ 20 mentors and 100 mentees from year 2017 – 2019

Organization Memberships:

2012 – Present	American Society for Nutrition (ASN).

Service Honors and Awards:

2017	Award / Honor Recipient: Outstanding Reviewer, Food and Function.
2016	Award / Honor Recipient: Reviewer of the Year 2016, Journal of Diabetes.