

Kristi M. Crowe-White, PhD, RD

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EDUCATION

B.S.	Nutrition	Samford University, 2000
M.S.	Food Science & Nutrition	University of Maine, 2002
Ph.D.	Food Science & Nutrition	University of Maine, 2006
R.D.	Dietetic Internship	University of Alabama at Birmingham, 2009
	National Science Foundation Fellowship	University of Maine, 2003-2006

OTHER SCHOLARLY TRAINING

- University of North Carolina at Chapel Hill Nutrition Research Institute - Nutrigenetics, Nutrigenomics, and Precision Nutrition Training, 2021
- Certified Phlebotomy Technician by the National Health Career Association, 2017 - present
- University of Alabama at Birmingham Geriatric Education Center Faculty Scholars Program, 2015-2016
- Nutrition Data System for Research (NDSR) Training – University of Minnesota, March 2011

PROFESSIONAL WORK EXPERIENCE

- University of Alabama
 - Department Chair, Human Nutrition & Hospitality Mgmt. 2019 – 2023
 - Associate Professor, Human Nutrition 2016 – to present
 - Assistant Professor, Human Nutrition 2010 – 2016
- Time, Inc. The Southern Progress Corporation 2007- 2009
 - Food Chemist

RESEARCH FOCUS

- **Aim 1** – Investigate the impact of bioactive compounds and functional foods on outcomes related to cardiometabolic disease in preclinical and clinical models including genetic explorations underlying interindividual responsiveness.
- **Aim 2** – Examine the role of bioactive food compounds and dietary patterns on gut microbial composition and gut-derived metabolites in relation to cardiometabolic disease and aging.

INTELLECTUAL PROPERTIES

- The University of Alabama, **Crowe-White KM**. U.S. Patent Number 11,304,896: Antioxidant Infused Gum for Improving Oral Health - April 19, 2022

EXTERNALLY FUNDED RESEARCH

* denotes student-mentored research funding

- **Crowe-White KM (PI).** (2022-2024). *Spices for Cultivating a Healthy Gut Microbiome and Cardiometabolic Profile: The Spice Study.* The McCormick Science Institute.
Award: \$200,000.00
- * DiNatale J, **Crowe-White KM (Mentor).** (2023-2024). *Influence of Dietary Nitrate on Vascular Outcomes during Pregnancy.* Academy of Nutrition and Dietetics – Research Dietetics Practice Group.
Award: \$2,000.00
- * DiNatale J, **Crowe-White KM (Mentor).** (2022-2023). *Dietary Nitrate as an Adjuvant Therapy for Hypertensive Pregnancies and a Nutritional Modifier of Cardiometabolic Programming in Offspring.* American Heart Association Student Scholarship in Cardiovascular Disease.
Award: \$2,000.00
- ***Crowe-White KM (PI),** Park H, Senkus KE, DiNatale J. (2020-2022). *Epigenetic Influences of Prenatal Dietary Nitrate on Nutritional Programming of Brown Adipose Tissue Differentiation and Cardiometabolic Outcomes in Offspring of Obese Sprague-Dawley Rats.* Academy of Nutrition and Dietetics – Research Dietetics Practice Group Pilot Grant and The Sugar Association.
Award: \$10,000.00
- *Senkus KE, **Crowe-White KM (Mentor).** (2019-2022) *Mouth Rinses Infused with Nitrates/Nitrites and Antioxidants to Support the Entero-salivary Pathway for Oral and Vascular Health: The RINSE Study.* Academy of Nutrition and Dietetics Colgate Palmolive Fellowship in Nutrition and Oral Health.
Award: \$15,000.00
- *Senkus KE, **Crowe-White KM (Mentor).** (2019-2020) *Characterizing the Oral Microbiome for Optimal Blood Pressure.* Academy of Nutrition and Dietetics Foundation.
Award: \$1,750.00
- *Senkus KE, **Crowe-White KM (Mentor).** (2019-2020) *Developing a Functional Mouth Rinse for Improving Oral and Vascular Health.* Academy of Nutrition and Dietetics Foundation.
Award: \$1,000.00
- Johnston E, Bushway R, Cheryan M, **Crowe-White KM (co-I).** (2019-2021) *Novel Concentration Technology to Develop Antioxidant-Rich Army Rations.* Department of Defense Army SBIR A17-069.
Award: \$1,000,000.00
UA Sub-award: \$24,318.00
- Knol L, **Crowe-White KM (co-PI).** (2018-2019). *REDOX ME: An investigation of the relationship between oxidative stress biomarkers and mindful eating practices.* Academy of Nutrition and Dietetics Dietitians in Integrative and Functional Medicine Grant.
Award: \$5,000.00
- **Crowe-White KM (PI),** Jung S. (2017-2018). *Modulating Oxidative Stress through Antioxidant-Infused Spice Chews: the MOSAIC Study.* Academy of Nutrition and Dietetics McCormick Science Institute Research Award Grant.
Award: \$5,000.00

- **Crowe-White KM (co-PI)**, Ellis A. (2016-2018). *Bioactive Compounds in Watermelon Juice Modulating Oxidative Stress and Inflammation in Elders: the MOXIE Study*. American Heart Association Mentored Clinical and Population Research Award 16MCPRP27260233.
Award: \$154,000.00
- Allison D, **Crowe KM (co-I)**. (2013-2014). *Functional Foods: Issues in Evaluating Bioactive Food Components in Obesity and Cancer Prevention*. NIH R13 National Cancer Institute, Office of Dietary Supplements – PA-10-071.
Award: \$44,288.00
- **Crowe KM (co-PI)**, Lawrence J, Meyer MK. (2012-2013). *Improving Dietary Protein Intake among Residents of Long-Term Care Facilities through the Development and Sensory Testing of Protein-Enhanced Soups*. Nestlé USA.
Award: \$5,000.00
- Bullard A, **Crowe KM (co-I)**, Johnson C. (2011). *Biomarker Prospecting: DHOS hydrocarbon and dispersant discharge in the Gulf of Mexico using Gulf killifish as an aquatic model sentinel for aquatic and human physiological response to toxicants*. British Petroleum Co. Gulf of Mexico Research Initiative.
Award: \$153,976.00
UA Sub-award: \$65,146.00

INTERNALLY FUNDED RESEARCH

- Knol L, Appell S, **Crowe-White KM (Co-I)**. (2018-2020) *Feasibility of Conducting a Mindful Eating Weight Loss Program for Adults entitled "Project MEE: Feeding the Mind, Body, and Soul"*. Research Grants Committee, University of Alabama.
Award: \$6,000.00
- Ellis A, **Crowe-White KM (Co-I)**, Locher J. (2014-2015). *Bioactive Compounds in Watermelon Modulating Oxidative Stress and Inflammation in Elders: The MOXIE Study*. University of Alabama System Collaborative Research Initiative Grant.
Award: \$2,500.00
- **Crowe KM (PI)**. (2012-2014). *Mitigating Obesity-Related Sequelae: Does Dietary Antioxidant Intake Matter?* Research Grants Committee, University of Alabama.
Award: \$6,000.00
- **Crowe KM (PI)**. (2012). *Phenolic Content and Antioxidant Density of Solid Fruit versus 100% Juice Servings*. Crenshaw Endowed Research Grant, University of Alabama.
Award: \$2,000.00
- **Crowe KM (PI)**. (2011). *Impact Assessment of Flavonoids on Oxygen Radical Absorbance Capacity (ORAC) as a Biomarker of Oxidant Status*. Crenshaw Endowed Research Grant, University of Alabama.
Award: \$2,000.00

PEER-REVIEWED PUBLICATIONS

Anchor author denotes PI or Co-PI responsible for funding, thus senior author (last author) and first author should be viewed equally. Publications are accessible in MyBibliography at <https://www.ncbi.nlm.nih.gov/myncbi/1v1JHv96rke5l/bibliography/public/>

Publication Summary (as of December 2023)

- Number of Citations – 1609
- h-Index – 19
- First Author or Senior Author Publications – 39 of 60 total publications (65%)

* denotes student-mentored research

^α denotes senior author publication (first or anchor) responsible for funding or project conceptualization/lead investigator.

1. Park H, **Crowe-White KM**. Oxidative Stress, Antioxidant Defense, and Neurodegeneration. *Brain Disorders*. Accepted July 18, 2023. <https://doi.org/10.1016/j.dscb.2023.100084>
2. Douglas JW, **Crowe-White KM**, Ellis AC, et al. Association between Late-Life Weight Status and Cognition is Moderated by Race among Black and White Older Adults in the Health, Aging, and Body Composition Study. *Connections: Dietetics in Health Care Communities*. Accepted November 2023.
3. ^{*α} DiNatale JC, Azarmanesh D, Hébert JR, Wirth MD, Pearlman J, **Crowe-White KM**. Relationship Between Non-Energy Adjusted and Energy-Adjusted Dietary Inflammatory Index and the Healthy Eating Index-2015: Analysis of the National Health and Nutrition Examination Survey (NHANES) 2015-2018. *Ann Med*. 2023;55(2).
4. ^{*}Hung C-C, **Crowe-White KM**, McDonough IM. A Seed and Soil Model of Gut Dysbiosis in Alzheimer's Disease. *Aging*. 2023;15(12):5235-5237.
5. ^{*α} **Crowe-White KM**, Jung SE, Bragg A, Senkus KE. Functional Sugar-Free Chewing Gum Infused with Spices Bolsters Antioxidant Capacity and Phenolic Content of Saliva. *Scientific Reports*. 2023;13:4802.
6. ^{*α} DiNatale JC, **Crowe-White KM**. Effects of Resveratrol Supplementation on Nitric Oxide-mediated Vascular Outcomes in Hypertension: a Systematic Review. *Nitric Oxide*. 2022;129(1):74-81.
7. ^α **Crowe-White KM**, Evans LW, Kuhnle GGC, Milenkovic D, Stote K, Wallace T, Handu D, Senkus KE. Flavan-3-ols and Cardiometabolic Health: First Ever Dietary Bioactive Guideline. *Adv Nutr*. 2022;13(6):2070-2083.
8. ^α **Crowe-White KM**, Stote KM. Recommendation for Dietary Flavan-3-ols Intake for Cardiometabolic Health. *Cardiovasc Health Well-Being: Pathways*. 2023;1:4-7.
9. ^α **Crowe-White KM**, Baumler M, Gradwell E, Juturu V, White D, Handu D. Application of Umami Tastants on Sodium Reduction in Food: an Evidence Analysis Center Scoping Review. *J Acad Nutr Diet*. 2023;123(11):1606-1620.
10. ^{*α} Senkus KE, **Crowe-White KM**. Dietary Nitrates to Optimize Cardiovascular Health. *Cardiovasc Health Well-Being: Pathways*. 2022;1(5):4-6.
11. ^{*}Senkus KE, **Crowe-White KM**, Locher JL, Ard J. Relative Fat Mass Assessment to Estimate Changes in Adiposity among Female Older Adults with Obesity after a 12-month Exercise and Diet Intervention. *Ann Med*. 2022;54;1:1160-1166.
12. ^{*}Senkus KE, **Crowe-White KM**, Bolland A, Locher JL, Ard J. Changes in Adiponectin:Leptin Ratio among Older Adults with Obesity following a 12-month Exercise and Diet Intervention. *Nutr. Diabetes*. 2022;12:article number 30.
13. Knol L, **Crowe-White KM**, Appel SJ, Daquin JC. Direct yet Opposite Effects of Stress-related and Mindful Eating on Diet Quality. *J Nutr Educ Behav*. 2022;54:872-877.

14. Park H, **Crowe-White KM**, Ciesla L, et al. Alpha-Tocotrienol Enhances Arborization of Primary Hippocampal Neurons via Upregulation of Bcl-xL. *Nutr Res.* 2022;101:31-42.
15. *DiNatale JC, **Crowe-White KM**, Ellis AC, Yang X, Thaitrong P. Implications of Face Mask Use on Body Composition Assessment by Air-Displacement Plethysmography. *Clin Nutr ESPEN.* 2022;48:356-360.
16. *^α Senkus KE, Zhang Y, Wang H, Tan L, **Crowe-White KM**. Lycopene Supplementation of Maternal and Weanling High Fat Diets influences Adipose tissue Development and Metabolic Outcomes of Sprague-Dawley Offspring. *J Nutr Sci.* 2021; 10: e96.
17. ^α **Crowe-White KM**, Nagabooshanam VA, Dudenbostel T, Locher JL, Chavers TP, Ellis AC. 100% Watermelon Juice as a Food-First Intervention to Improve Cognitive Function: Ancillary Findings from a Randomized Controlled Trial. *J Nutr Gerontol Geriat.* 2021;40:304-312.
18. *Bragg AE, **Crowe-White KM**, Ellis AC, Studer M, Phillips F, Samsel S, Parton J, Locher JL, Ard J. Changes in Cardiometabolic Risk among Older Adults with Obesity: an Ancillary Analysis of a Randomized Controlled Trial investigating Exercise Plus Weight Maintenance and Exercise Plus Intentional Weight Loss by Caloric Restriction. *J Acad Nutr Diet.* 2022;122(2):354-362.
19. ^α Ellis AC, Mehta T, Nagabooshanam VA, Dudenbostel T, Locher JL, **Crowe-White KM**. Daily 100% Watermelon Juice Consumption and Vascular Function: A Randomized Controlled Trial. *Nutr Metab Cardiovasc Dis.* 2021;31(10):2959-2968.
20. *^α Park H, Stumpf A, Broman K, Jansen J, Dunn T, Scott M, **Crowe-White KM**. Role of Lycopene in Mitochondrial Protection during Differential Levels of Oxidative Stress in Primary Cortical Neurons. *Brain Disorders.* 2021;3:100016.
21. *Knol LL, Appel SJ, **Crowe-White KM**, Brantley C, Adewumi OE, Senkus KE. Development, feasibility, and initial results of a mindful eating intervention: Project Mindful Eating and Exercise (MEE): Feeding the Mind, Body, and Soul. *Am J Health Ed.* 2021;52(4):171-184.
22. *Park H, Hayden MM, Bannerman S, Jansen J, **Crowe-White KM**. Anti-Apoptotic Effects of Carotenoids in Neurodegeneration. *Molecules.* 2020;25(15):3453.
23. *Tan L, Zhang Y, **Crowe-White KM**, Senkus KE, Erwin M, Wang H. Vitamin A Supplementation during Suckling and Post-Weaning Periods Attenuates Adverse Metabolic Effects of Maternal High Fat Diet Consumption in Sprague-Dawley Rats. *Curr Dev Nutr.* 2020;4(8):nzaa111.
24. *^α KE Senkus, Tan L, **Crowe-White KM**. Systemic and Adipose Tissue Redox Status in Sprague-Dawley Rats fed Normal and High Fat Diets Supplemented with Lycopene. *J Med Food.* 2021;24(4):370-376.
25. ^α **Crowe-White KM**, Voruganti VS, Talevi V, Dudenbostel T, Nagabooshanam VA, Locher JL, Ellis AC. Variation of Serum Lycopene in Response to 100% Watermelon Juice: an Exploratory Analysis of Genetic Variants in a Randomized Controlled Crossover Study. *Curr Dev Nutr.* 2020;4(7):nzaa102.
26. *Zhang Y, **Crowe-White KM**, Kong L, Tan L. Vitamin A Status and Deposition in Neonatal and Weanling Rats Reared by Mothers Consuming Normal and High Fat Diets with Adequate or Supplemented Vitamin A. *Nutrients* 2020, 12(5),1460.
27. Jung SE, Noh H, **Crowe-White KM**, Ellis AC. Dietetic Students' Perceived Facilitators, Barriers and Perceptions of Working with Older Adults: Implications for Curriculum Development. *J Nutr Gerontol Geriat.* 2020;39(2):143-153.

28. *Park H, Mnatsakanyan N, Broman K, Davis AU, May J, Licsnerski P, **Crowe-White KM**, Lackey KH, Jonas EA. Alpha-tocotrienol Prevents Oxidative Stress-Mediated Post-Translational Cleavage of Bcl-xL in Primary Hippocampal Neurons. *Int J Mol Sci*. 2020;21:220.
29. ^α Jung SE, Shin YH, Severt K, **Crowe-White KM**. Determinants of Consumer's Intention to Consume Antioxidant-Infused Sugar-free Chewing Gum: Measuring Taste, Attitude, and Health Consciousness. *J Food Prod Mark*. 2020;26(1):38-54.
30. *^α Senkus KE, **Crowe-White KM**. Influence of Mouth Rinse Use on the Enterosalivary Pathway and Blood Pressure: A Systematic Review. *Crit Rev Food Sci Nutr*. 2020;60(17):2874-2886.
31. *Fang X, Azain M, **Crowe-White KM**, et al. Effect of Acute Ingestion of Green Tea Extract and Lemon Juice on Oxidative Stress and Lipid Profile in Pigs Fed a High-fat Diet. *Antioxidants*. 2019;8(6):195.
32. *Davis SA, Knol L, **Crowe-White KM**, Turner LW, McKinley EM. Homemade Infant Formula Recipes may contain Harmful Ingredients: a Quantitative Content Analysis of Blogs. *Public Health Nutr*. 2020;23:1334-1339.
33. Jung SE, Shin YH, Im JY, Hermann J, Ellis A, **Crowe-White KM**. Understanding Low-Income Older Adults' Intention to Consume Fruits and Vegetables. *J Hunger Environ Nutr*. 2021;16(2):255-270.
34. Wallace TC, Bailey RL, Blumberg JB, Burton-Freeman B, Chen O, **Crowe-White KM**, et al. Fruits, Vegetables, and Health: a Comprehensive Narrative, Scoping Review of the Science and Recommendations for Enhanced Public Policy to Improve Intake. *Crit Rev Food Sci Nutr*. 2020;60(13):2174-2211. doi:10.1080/10408398.2019.1632258
35. *^α **Crowe-White KM**, Phillips TA, Ellis AC. Lycopene and Cognitive Function. *J Nutr Sci*. 2019;8(e20):1-8.
36. ^α **Crowe-White KM**, Ellis AC, Mehta T, Locher JL, Ard JD. Diet Quality Assessed by the HEI-2010 and Biomarkers of Cardiometabolic Disease: an Exploratory Analysis. *J Am Coll Nutr*. 2019;38(7):640-647.
37. ^α Ellis AC, Dudenbostel T, **Crowe-White KM**. Watermelon Juice: a Novel Functional Food to Increase Circulating Lycopene in Older Adult Women. *Plant Foods Hum Nutr*. 2019;74(2):200-203.
38. *^α Senkus KE, Tan L, **Crowe-White KM**. Lycopene and Metabolic Syndrome: A Systematic Review of the Literature. *Adv Nutr*. 2019;10:19-29.
39. *^α **Crowe-White KM**, Cardel MI, Burkhalter HH, Huo T, Fernández JR. Higher Intake of n-6:n-3 Fatty Acids is Associated with Decreased Cardiometabolic Risk Factors in a Racially Diverse Sample of Children. *Curr Dev Nutr*. 2018;May;2(5):nzy014.
40. ^α Jung SE, Ellis AC, **Crowe-White KM**. Intention of Older Women to Consume 100% Watermelon Juice for Vascular Health: an Application of the Theory of Planned Behavior. *J Nutr Gerontol Geriat*. 2018;37(2):130-143.
41. ^α **Crowe-White KM**, et al. Metabolic Impact of 100% Fruit Juice Consumption on Lipid Profiles and Antioxidant/Oxidant Status of Adults: an Evidence-based Review. *Crit Rev Food Sci Nutr*. 2017;57:152-162.
42. ^α Ellis A, Dudenbostel T, Locher J, **Crowe-White KM**. Modulating Oxidative Stress and Inflammation in Elders: The MOXIE Study. *J Nutr Gerontol Geriat*. 2016;35:219-242.
43. ^α **Crowe-White KM**, et al. Impact of 100% Fruit Juice Consumption on Diet and Weight Status of Children: an Evidence-based Review. *Crit Rev Food Sci Nutr*. 2016;56:871-884.

44. *Donahue E, **Crowe KM**, Lawrence J. Sensory Evaluation of Protein-Enhanced Soups among Residents of Long-Term Care Facilities. *Int J Food Sci Nutr*. 2015;66(1):104-107.
45. ^α **Crowe KM**, Allison DB. Evaluating Bioactive Food Components in Obesity and Cancer Prevention. *Crit Rev Food Sci Nutr*. 2015;55:732-734.
46. *^α **Crowe KM**, Murray E. Evaluating the Phenolic Content of Solid versus Beverage Forms of Select Fruit. *J Nutr Ecol Food Res*. 2014;2:49-53.
47. ^α **Crowe KM**. Optimizing Protein Precipitation Efficiency for Assessing the Contribution of Low Molecular Weight Compounds to Serum Antioxidant Capacity. *Clin Biochem*. 2014;47:116-118.
48. ^α **Crowe KM**, Newton J, Kaltenboeck B, Johnson C. Oxidative Stress Responses of Gulf Killifish Exposed to Hydrocarbons from the Deepwater Horizon Oil Spill: Considering Potential Implications on Aquatic Food Resources. *Environ Toxicol Chem*. 2014;33:370-374.
49. ^α **Crowe KM**. Designing Functional Foods with Bioactive Polyphenols: Highlighting Lessons Learned from Original Plant Matrices. *J Human Nutr Food Sci*. 2013;1:1018-1019.
50. ^α **Crowe KM**, Francis C. The Academy of Nutrition and Dietetics Position Paper on Functional Foods. *J Acad Nutr Diet*. 2013;113:1096-1103.
51. *^α **Crowe KM**, Murray E. Deconstructing a Fruit Serving: Comparing the Antioxidant Density of Whole Fruit versus 100% Fruit Juice. *J Acad Nutr Diet*. 2013;113(10):1354-1358.
52. Ellis A, **Crowe KM**, Lawrence J. Obesity-related Inflammation: Implications for Older Adults. *J Nutr Gerontol Geriatr*. 2013;32:263-290.
53. *^α Breshears K, **Crowe KM**. Sensory and Textural Evaluation of Gluten-Free Bread Substituted with Amaranth and Montana™ Flour. *J Food Res*. 2013;2(4):1-10.
54. ^α Neggers YN, **Crowe KM**. Prenatal Care and other Risk Factors Associated with Low Birth Weight: A Comparative Assessment between Cuba and Alabama. *J Am Board Family Med*. 2013;26(2):187-195.
55. ^α **Crowe KM**, Skonberg D, Bushway A, Bushway R. Application of ozone sprays as a strategy to improve the microbial safety and quality of salmon fillets. *Food Control*. 2012;25:464-468.
56. ^α **Crowe KM**, Bushway A, Davis-Dentici K. Impact of Postharvest Treatments, Chlorine And Ozone, Coupled With Low-Temperature Frozen Storage On The Antimicrobial Quality Of Lowbush Blueberries (*Vaccinium angustifolium*). *LWT – Food Sci Technol*. 2012;47:213-215.
57. ^α **Crowe KM**, Bushway A, Bushway R, Hazen R. Evaluation of Chemical and Photochemical Oxidation Processes for Degradation of Phosmet on Lowbush Blueberries (*Vaccinium angustifolium*). *J Agric Food Chem*. 2006;54:9608-9613.
58. ^α **Crowe KM**, Bushway A, Bushway R, Davis-Dentici K. Microbial Degradation of Phosmet on Blueberry Fruit and in Aqueous Systems by Indigenous Bacterial Flora on Lowbush Blueberries (*Vaccinium angustifolium*). *J Food Sci*. 2007;72:293-299.
59. ^α **Crowe KM**, Bushway A, Bushway R, Davis-Dentici K. Comparison of Single Oxidants versus Advanced Oxidation Processes as Chlorine-Alternatives for Wild Blueberry Processing. *Int J Food Microbiol*. 2007;116:25-31.
60. ^α **Crowe KM**, Bushway A, Bushway R. Effects of Alternative Postharvest Treatments on the Microbiological Quality of Lowbush Blueberries. *Int J Fruit Sci*. 2005; 4:29-39.

INVITED PEER-REVIEWED BOOK CHAPTERS AND POSITION PAPERS

- **Crowe-White KM**, Francis C. Functional Foods. In: Mullin G, Marian M. *Integrating Nutrition into Practice*. New York, NY: CRC Press; 2017.

- **Crowe KM**, Francis C. The Academy of Nutrition and Dietetics Position Paper on Functional Foods. *J Acad Nutr Diet.* 2013;113:1096-1103.
- **Crowe KM**. White Paper on Umami in Foods. 2013. *Academy of Nutrition and Dietetics Evidence Analysis Library.* [https://www.andeal.org/files/files/Umami/Umami in Foods White Paper.pdf](https://www.andeal.org/files/files/Umami/Umami%20in%20Foods%20White%20Paper.pdf)

WEB PEER-REVIEWED PUBLICATIONS

- **Crowe-White KM**, Hold J, Washington L. 2016. “Exercising Autonomy in Geriatric Palliative Care.” The Deep South CME Network, UAB Division of CME, Geriatric-Focused CME Courses. <http://www.alabamacme.uab.edu/geriatrics.aspx>

PEER-REVIEWED ORAL PRESENTATIONS

* denotes student-mentored research

- *Senkus KE, Blood AB, Azrad M, Bolland A, Park H-A, Tice JR, Crowe-White KM. *Bioactive Mouth Rinse Containing Inorganic Nitrate and Antioxidants Bolsters the Enterosalivary Pathway and Lowers Blood Pressure in Wistar Rats.* American Society for Nutrition Conference, July 2023.
- **Crowe-White KM**, Wallace T, Stote K, Handu D, Senkus KE. *Flavan-3-ols and Cardiometabolic Health: First Ever Dietary Bioactive Guideline.* Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2022.
- *Senkus KE, **Crowe-White KM**, Locher J, Ard J. *Changes in the Visceral Adiposity Index among Obese Older Adults after a 12-Month Exercise and Diet Intervention.* American Society for Nutrition Conference, June 2021.
- *Senkus KE, Zhang Y, Tan L, **Crowe-White KM**. *Differential Effects of Lycopene Supplementation on Adipose Tissue Development and Redox Status in Weanling Offspring of Rats Consuming a High-fat Diet.* American Society for Nutrition Conference, June 2020.
- *Zhang Y, Senkus KE, **Crowe-White KM**, Tan L. *Vitamin A Supplementation during Suckling and Post-Weaning Periods Improves Systemic and Adipose Tissue Redox Status in Offspring of Rats consuming a High-fat Diet.* American Society for Nutrition Conference, June 2020.
- *Zhang Y, **Crowe-White KM**, Kong L, Tan L. *Vitamin A Status in Neonatal and Weanling Rats reared by Mothers Consuming Normal and High-fat Diets with or without Vitamin A Supplementation.* American Society for Nutrition Conference, June 2020.
- *Barnes GA, **Crowe-White KM**, Ellis AC. *Watermelon Juice Supplementation Yields Varying Responses in Serum Lycopene Levels.* American Society for Nutrition 2019 Conference *Curr Dev Nutr.* June 2019;3(6). doi:10.1093/cdn/nzz031.OR29-08-19
- *KE Senkus, Tan L, **Crowe-White KM**. *Systemic and Adipose Tissue Redox Balance in Sprague-Dawley Rats fed Standard and High Fat Diets Supplemented with Lycopene.* American Society for Nutrition 2019 Conference. *Curr Dev Nutr.* June 2019;3(6). doi: 10.1093/cdn/nzz031.OR24-04-19
- ***Crowe KM**, Murray E. *Provision of Phenolic Phytochemicals by 100% Fruit Juice.* Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2014.

- *Donahue E, **Crowe KM**, Lawrence J. *Increasing Dietary Protein Provision among Older Adults using Protein-Enhanced Soups*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2014.
- **Crowe KM**, Johnson C, Newton J, Bullard A. *Hydrocarbon-induced Biomarker Responses in Gulf Killifish, *Fundulus grandis*, as an Aquatic Gulf of Mexico Sentinel*. Gulf of Mexico Oil Spill and Ecosystem Science Conference, January 2013.
- *Glagola-Dunn C, Knol L, Robb CA, **Crowe KM**. *The Monetary Impact of Grocery Tax in Alabama on Fruit and Vegetable Purchases in a Variety of Demographics*. American Council on Consumer Interests National Conference, April 2012.
- **Crowe KM**, Knol L. *Influence of Meal Location and Family Meals on Carotenoid Intake among U.S. Children*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, September 2011.
- **Crowe KM**, Bushway A, Bushway R. *Evaluation of Ozone as a Single and Synergistic Oxidant for Improvement of Chemical and Microbial Safety of Lowbush Blueberries (*Vaccinium angustifolium*)*. International Ozone Association Sustainable Agriculture Conference, October 2007.
- **Crowe KM**, Bushway A, Bushway R, Dentici K. *Degradation of Phosmet and Improvement of Microbial Quality through Postharvest Application of Ozone, Hydrogen Peroxide, and UV*. Institute of Food Technologists Annual Meeting, June 2006.

PEER-REVIEWED POSTER PRESENTATIONS

*** denotes student-mentored research**

- *Senkus KE, DiNatale JC, Park H-A, **Crowe-White KM**. *Prenatal Nitrate Supplementation of Maternal High-Fat Diet Influences Adipose Tissue Development in Offspring from an Obese Pregnancy*. American Society for Nutrition Conference, July 2023.
- *Senkus KE, Morrow CD, Azrad M, Bolland A, Park H-A, Tice JR, **Crowe-White KM**. *Bioactive Mouth Rinse Containing Inorganic Nitrates and Antioxidants Modulates the Oral Microbiome in Support of the Enterosalivary Pathway*. American Society for Nutrition Conference, July 2023.
- *DiNatale JC, **Crowe-White KM**, Azarmanesh D, Hébert JR, Wirth MD, Pearlman J. *Relationship Between Non-Energy Adjusted and Energy-Adjusted Dietary Inflammatory Index and the Healthy Eating Index-2015: Analysis of the National Health and Nutrition Examination Survey (NHANES) 2015-2018*. American Society for Nutrition Conference, July 2023.
- *DiNatale JC, **Crowe-White KM**, Ellis AC, Douglas J, McDonough I, Yaffe K. *The Drug Burden Index Is Associated with Measures of Cognitive Function Among Older Adults in the Health, Aging, and Body Composition Study*. American Society for Nutrition Conference, July 2023.
- Park H-A, **Crowe-White KM**, Ciesla L, et al. *Alpha-Tocotrienol: A Nutritional Regulator of Bcl-xL in Neurons*. American Society for Nutrition Conference, July 2023.
- *DiNatale JC, Knol LL, **Crowe-White KM**, Azarmanesh D. *Diet Quality Assessed by the Dietary Inflammatory Index and the Healthy Eating Index: An Analysis of the National Health and Nutrition Examination Survey (2015-2018)*. American Society for Nutrition Conference, June 2022.

- Park H-A, **Crowe-White KM**, Ciesla LM, Bannerman S, Scott M, Davis A, et al. *Role of Alpha-Tocotrienol during Development of Primary Hippocampal Neurons*. American Society for Nutrition Conference, June 2022.
- Ellis AC, **Crowe-White KM**, Hunter G. *Effects of Different 16-Week Exercise Interventions on Bone Mineral Density of Sedentary Older Women*. Gerontological Society of America 2021 Annual Scientific Meeting, November 2021.
- Gosa MM, Bryan MH, Cook C, **Crowe-White KM**, Bolland AC. *Usefulness of the Adapted Pre-feeding Skills Checklist for Identification of Oral Phase Dysphagia in Children*. Annual American Speech-Language and Hearing Association Conference, November 2021.
- Knol LL, **Crowe-White KM**, Appel SJ. *Mindful eating is associated with higher Healthy Eating Index scores among women who are overweight or obese*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2021.
- *Knol LL, **Crowe-White KM**, Brantley C, Senkus KE, Adewumi OE, Appel SJ. *Emotion and stress-related eating is related to Visceral Adiposity Index among women who are overweight or obese*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2021.
- *Thaitrong P, Douglas JW, Crowe-White KM. *Mealtime Support by Long-term Care Staff and Impact on Meal Intake and Behaviors among Adults with Dementia: a Systematic Review*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2021.
- *Senkus KE, **Crowe-White KM**, Locher J, Ard J. *Relative Fat Mass as an Estimate of Total Adiposity in Older Adults*. American Society for Nutrition Conference, June 2021.
- *DiNatale J, **Crowe-White KM**, Ellis AC, Douglas J, McDonough IM, Yaffe K. *Association of Drug Burden Index with Measures of Cognitive Function Among Older Adults*. American Society for Nutrition Conference, June 2021.
- *Park H, **Crowe-White KM**, et al. *Vitamin E Improves Neurite Complexity by Enhancing Mitochondrial Function*. American Society for Nutrition Conference, June 2021.
- Douglas J, **Crowe-White KM**, Ellis AC, Bui C, Voruganti S, Yaffe K. *Changes in Body Mass Index is Associated with Change in Cognition in Older Adults*. Gerontological Society of America 2020 Annual Scientific Meeting, November 2020.
- *Senkus KE, **Crowe-White KM**, Locher J, Ard J. *Changes in Adiponectin:Leptin Ratio among Obese Older Adults after a 12-month Exercise and Diet Intervention*. American Society for Nutrition Conference, June 2020.
- Knol LL, Appel JS, Adewumi OE, Brantley C, **Crowe-White KM**, Senkus KE. *Development, Feasibility, and Initial Pilot Study Results of a Worksite Mindful Eating Intervention: Project Mindful Eating for Feeding the Mind, Body, and Soul*. Academy of Nutrition and Dietetics Food and Nutrition Conference, October 2020.
- *Senkus KE, **Crowe-White KM**, Knol LL. *Lower Framingham Risk Score among Self-Perceived Vegetarians: Data from the National Health and Nutrition Examination Survey 2007-2010*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2020.
- Brantley C, Knol LL, **Crowe-White KM**, Appel SJ, Adewumi OE. *Mindful Eating is Related to Stress-related Eating, Perceived Stress, and Appraisal of Resources to Cope: an Application of the Transactional Model of Stress and Coping*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2020.

- Adewumi OE, Knol LL, Appel SJ, **Crowe-White KM**, Brantley C. *Insulin Resistance is Related to Appraisal of Ability and Resources to Cope with Stress among Overweight Women*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2020.
- Gosa MM, Bryan MH, Cook CH, **Crowe-White KM**, Bolland AC. *Usefulness of the Adapted Pre-Feeding Skills Checklist for Identification of Oral Phase Dysphagia in Children*. Annual Convention of the American Speech-Language-Hearing Association (ASHA), November 2020.
- Knol LL, **Crowe-White KM**, Appel S. *Mindful Eating is Related to Lower Intake of Energy and Added Sugars among Overweight, Premenopausal Women*. American Society for Nutrition Conference, June 2020.
- *Bragg AE, **Crowe-White KM**, Ellis AC, Locher J, Ard J, Studer M, Phillips F, Samsel S, Parton J. *Changes in Cardiometabolic Risk among Obese Older Adults after a 12-month Exercise and Diet Intervention*. American Society for Nutrition Conference, June 2020.
- * Ellis AC, Hansen AB, Baidwaan N, Aryan Nagabooshanam V, **Crowe-White KM**. *Associations between Cognitive Function and Bioactive Food Compounds in 100% Watermelon Juice*. Gerontological Society of America Annual Meeting, November 2019. *Innovation in Aging*. 2019;3(S1);656.
- Knol LL, **Crowe-White KM**, Appel JS, Brantley C, Senkus KE, Gerald AN. *A Mindful Eating Intervention Improves Serum Antioxidant Capacity: Pilot Study Results from Project Mindful Eating*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2019.
- *Knol LL, **Crowe-White KM**, Appel SJ, et al. *Serum Antioxidant Capacity is related to Eating with Awareness*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2019.
- **Crowe-White KM**, Jung SE, Bragg A, Senkus KE. *Functional Sugar-Free Gums Infused with Spices Improve the Antioxidant Capacity of Saliva*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2019.
- Jung SE, **Crowe-White KM**, Shin YH, Severt KS. *Intention to Purchase Functional Sugar-free Gum Infused with Antioxidants from Spices for Vascular Health using the Value Attitude Behavior Model*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2019.
- Jung SE, Shin YH, Im J, Hermann J, Ellis AC, **Crowe-White KM**. *Determinants of Low-Income Older Adults to Consume Fruits and Vegetables*. Annual Conference of the Society for Nutrition Education and Behavior, July 2019.
- *Stumpf A, Broman K, Senkus KE, Tan L, **Crowe-White KM**, Park H. *Lycopene Protects Cortical Neurons via Oxidative Stress-mediated ΔN -Bcl-xL Formation*. American Society for Nutrition 2019 Conference, June 2019. *Curr Dev Nutr*. June 2019;3(6). doi: 10.1093/cdn/nzz052.FS05-08-19
- *KE Senkus, Kwan S, Tan L, **Crowe-White KM**. *Adipose Tissue Development and Metabolic Profile of Neonatal and Weanling Sprague-Dawley Rats in Response to a Maternal High Fat Diet Supplemented with Lycopene*. American Society for Nutrition 2019 Conference, June 2019. *Curr Dev Nutr*. June 2019;3(6). doi: 10.1093/cdn/nzz029.FS06-02-19
- *Kwan S, KE Senkus, **Crowe-White KM**, Tan L. *Maternal Vitamin A Supplementation Modulates Adipose Tissue Development in Offspring of Rats Consuming a High-Fat Diet*. American Society for Nutrition 2019 Conference, June 2019. *Curr Dev Nutr*. June 2019;3(6).

- Gosa MM, Bryan MH, **Crowe-White KM**, Bolland AC. *Characteristics of Children Referred for Outpatient Dysphagia Assessment: Pilot Data from the F3D Study*. Annual Convention of the American Speech-Language-Hearing Association (ASHA), November 2018.
- **Crowe-White KM**, Bolland AC, Bryan MH, Gosa MM. *Relationship between Problematic Pediatric Feeding Behavior and Nutritional Intake in Young Children*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2018.
- Ellis A, **Crowe-White KM**. *Associations between Dietary Intake and Vascular Resistance among Post-menopausal Women*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2018.
- KE Senkus, Tan L, **Crowe-White KM**. *Lycopene and Metabolic Syndrome*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2018.
- **Crowe-White KM**, Watson A, Doucet J, Bolland A, Bryan M, Gosa M. *Relationship between Problematic Pediatric Feeding Behavior and Nutritional Intake in Young Children*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2018.
- *KE Senkus, Tan L, **Crowe-White KM**. *Lycopene Attenuates High-Fat Diet-Induced Oxidative Stress in Sprague-Dawley Rats*. American Society for Nutrition Conference, June 2018.
- **Crowe-White KM**, Dudenbostel T, Ellis A. *Bioavailability and Acute Effects of Bioactive Compounds in Watermelon Juice on Blood Pressure*. American Society for Nutrition Conference, June 2018.
- Jung SE, Ellis A, **Crowe-White KM**. *Older Women's Intention to Consume 100% Watermelon Juice for Vascular Health*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2017.
- *Aiken S, Knol L, **Crowe-White KM**, Turner LW. *Blogs Featuring Homemade Infant Formula Recipes Offer Controversial Advice to Consumers: a Qualitative Analysis*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2017.
- ***Crowe-White KM**, Burns T, Buzzard J, Dolan L, Register S, Ellis A. *Knowledge and Intake of Nutrient-Dense Dietary Patterns are Deficient among College Students*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2017.
- *Ellis A, Burns T, Buzzard J, Dolan L, Register S, **Crowe-White KM**. *Food Insecurity among College Students does not differ by Affiliation in Greek Life*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2017.
- Ellis A, Dudenbostel T, **Crowe-White KM**. *Acute Effects of Watermelon on Vascular Function and Serum Antioxidant Capacity*. Experimental Biology Conference, April 2017.
- **Crowe-White KM**, Ellis A, Locher J, et al. *Relationship between Cardiometabolic Disease Risk Staging and Serum Antioxidant Capacity in Obese Older Adults*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2016.
- *Gibson M, **Crowe-White KM**. *Effects of Processing on the Phytochemical Profile and Antioxidant Capacity of Four Honey Varietals*. Institute of Food Technologists Annual Meeting, July 2015.
- Ellis A, **Crowe-White KM**. *Dietary Acidity/Alkalinity and its Relationship with Bone Health among Older Adults*. Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2015.
- Foster A, **Crowe-White KM**, Knol L, Singh R. *Expanding Dietary Offerings for Individuals with Phenylketonuria through Sensory Evaluation of Low-Protein Foods with Glycomacropeptide-based Medical Formula*. Academy of Nutrition and Dietetics Food and

Nutrition Conference and Expo, October 2015.

- Skonberg D, **Crowe KM**, Bushway A, Baxter S. *Efficacy of Ozone Against Listeria innocua on Raw Salmon Fillets*. Institute of Food Technologists Annual Meeting, July 2007.
- **Crowe KM**, Bushway A, Bushway R, Dentici K, Perkins B. *Degradation of Phosmet through Microbial Mineralization and Postharvest Application of Hydrogen Peroxide and UV*. Pacificchem International Chemical Congress, December 2005.
- **Crowe KM**, Bushway A, Bushway R. *Effects of Chemical and Photochemical Oxidation Processes on the Microbial Population and Pesticide Residues of Lowbush Blueberries*. Institute of Food Technologists Annual Meeting, July 2005.
- **Crowe KM**, Bushway A, Leathem W. *Incorporation of Food Chemistry into the Secondary Educational System through the NSF GK-12 Program at the University of Maine*. Institute of Food Technologists Annual Meeting, July 2005.
- **Crowe KM**, Bushway A, Bushway R. *Postharvest Hydrogen Peroxide Applications for Lowbush Blueberries (Vaccinium angustifolium)*. Institute of Food Technologists Annual Meeting, July 2004.
- **Crowe KM**, Morcom M, Bushway A. *Enhancing Food Science Education through the National Science Foundation at the University of Maine*. Institute of Food Technologists Annual Meeting, July 2004.
- **Crowe KM**, Bushway A, Bushway R, Perkins B. *Microbial Quality and Safety of Lowbush Blueberries (Vaccinium angustifolium) as Influenced by Traditional and Emerging Disinfectant Technology*. Institute of Food Technologists Annual Meeting, July 2003.
- **Crowe KM**, Bushway A, Bushway R. *Effects of Postharvest Treatments on the Microbiological Quality and Pesticide Residues of Lowbush Blueberries*. Institute of Food Technologists Annual Meeting, June 2002.
- Camire M, **Crowe KM**, Ghazanfar S, Dougherty M. *Daily Raisin Consumption Improves Serum Lipids*. Annual Conference of Experimental Biology, April 2002.

INVITED ORAL PRESENTATIONS

International

- **Crowe-White KM**. *Umami Tastants on Sodium Reduction: State of the Science*. Korean Society of Food Science and Technology, June 2023.
- Neggers Y, **Crowe KM**. *Nutrition in Pregnancy: Comparative Assessment of Emerging and Established Risk Factors including Dietary Antioxidant Intake and their Association with Low Birth Weight in Cuba and Alabama*. University of Havana and the College of San Geronimo, University of Alabama-Cuba Initiative, February 2012.

National

- **Crowe-White KM**. *Coconut Oil: Super Food or Super Fad*. Military Families Learning Network. October 2018. <https://learn.extension.org/events/3418>
- **Crowe-White KM**. *Trans Fat in Foods Update*. Military Families Learning Network. February 2016. <https://learn.extension.org/events/2356%20February%202016>

State

- **Crowe-White KM**, Senkus KE. *Dietary Nitrates: Friends or Foe?* Alabama Dietetic Association Annual Meeting, February 2020.

- **Crowe-White KM.** *Influence of Adiposity on the Functional Role of Lycopene in Cardiometabolic Health.* Samford University Nutrition Conference, September 2018.
- **Crowe-White KM.** *The MOXIE Study: Modulating Oxidative Stress and Inflammation in Elders through 100% Watermelon Juice Consumption.* Alabama Family and Consumer Sciences Conference, February 2017.
- **Crowe KM.** *The Adiposity Trap: Impact of Obesity on Circulating Levels of Antioxidants.* Alabama Dietetic Association Annual Meeting, March 2014.
- **Crowe KM.** *Functional Foods: Why Prescriptive Eating Matters.* Alabama Dietetic Association Annual Meeting, March 2012.

STUDENT MENTORSHIP

Mentorship Summary (as of 2023)

- Doctoral Students - 5
- MS Students (thesis and non-thesis) – 9
- Undergraduate Students in Research – 18

Dissertation Chair

- Janie C. DiNatale. *Dietary Nitrate as an Adjuvant Therapy for Hypertensive Pregnancies and a Nutritional Modifier of Cardiometabolic Programming in Offspring.* Committee Chair (2020 - present).
- Katelyn E. Senkus. *Mouth Rinses Infused with Nitrates/Nitrites and Antioxidants to Support the Entero-salivary Pathway for Oral and Vascular Health.* Committee Chair (2018 - 2023).

Dissertation Committee Member

- Swetha Reddy Allamreddy. *Optimizing Advanced Drug Delivery for Targeting Hyperglycemia and Inflammation in Diabetes.* Committee Member (2022 – present)
- Khondoker Adeba Ferdous. *Effect of fucoxanthin on mitochondrial function against excitotoxicity.* Committee Member (2023 – present)
- Moresh Shokri. *Roles of ATF6 Transcription Factors in the Regulation of Cardiac Calcium Handling and Disease Progression.* Committee Member (2022 – present)

Thesis Chair

- Amelia Foster. *Sensory Comparison of Low-Protein Recipes with Glycomacropptide-Containing BetterMilk™ among Adults with PKU.* Committee Chair (2013 – 2014).
- Elizabeth Donahue. *Improving Dietary Protein Intake among Residents of Long-Term Care Facilities through the Development and Sensory Testing of Protein-Enhanced Soups.* Committee Co-Chair (2012 – 2013).

Thesis Committee Member

- Mickalyn Summerford. *All Purées Are Not Created Equal: An Investigation of the Nutritional and Food Properties of Puréed Foods Commonly Consumed in the First Year of Life.* Committee Member (2017 – 2019).

- Caroline Glagola-Dunn. *Financial Impact of Grocery Tax on Fruit and Vegetable Purchases in Alabama*. Committee Member (2011 – 2012).

Mentored Non-Thesis Research for MS Students

- Anna Bragg – M.S. Nutrition. *Changes in Cardiometabolic Risk among Obese Older Adults after a 12-Month Exercise and Diet Intervention*. Advisor for NHM 598 Independent Research, 2019-2020.
 - *J Acad Nutr Diet*. Accepted July 21, 2021.
- Katelyn E. Senkus – M.S. Nutrition. *Lycopene and Metabolic Syndrome: A Systematic Review of the Literature*. Advisor for NHM 598 Independent Research, 2017-2018.
 - *Adv Nutr*. 2019;10:19-29.
- Tinsley Phillips – M.S. Nutrition. *Relationship between Lycopene and Cognitive Function in Mid to Late Adulthood: A Systematic Review*. Advisor for NHM 598 Independent Research, 2016-2017.
 - *J Nutr Sci*. 2019;8(e20):1-8.
- Hannah Haas Barnett – M.S. Nutrition. *Intake of omega-6:omega-3 PUFA and its Relationship with Cardiometabolic Risk Factors in a Racially Diverse Sample of Children*. Advisor for NHM 598 Independent Research Study, 2015 – 2016.
 - *Curr Dev Nutr*. 2018;2:nzy014.
- Karen Breshears – M.S. Nutrition. *Acceptability of Gluten-Free Bread Products Made with Nutritious Alternative Grains*. Advisor for NHM 598 Independent Research Study, (2011 – 2012).
 - *J Food Res*. 2013;2(4):1-10.

Mentored Undergraduate Student Research

- Mary Stahlman. *Epigenetic Influences of Prenatal Dietary Nitrate on Cardiovascular Risks among Offspring from Obese Pregnancies*. Advisor for Randall Research Scholars Program 2021.
- Elisabeth Pettibone and Alex Parks. *Functional Sugar-Free Gums Infused with Spices Improve the Antioxidant Capacity of Saliva*. Advisor for Undergraduate Research Mentorship 2018-2019.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2019.
- Anna Bragg. *Acute Effects of 100% Watermelon Juice on Serum Antioxidant Capacity*. Advisor for Undergraduate Research Mentorship 2016-2017.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2017.
- Katelyn Senkus & Jala Lockhart. *Sensory Comparison of 100% Watermelon Juice with an Isocaloric Placebo Beverage*. Advisor for Undergraduate Research Mentorship 2016-2017.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2017.
- Lauren Burkley. *Impairments in Taste Perception among Individuals with Autism Spectrum Disorder: a Systematic Review*. Advisor for Undergraduate Research Mentorship 2016-2017.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2017.

- Luke Dolan, Stephanie Register, Julie Buzzard, Taylor Burns. *Dietary Advice for Transitioning Athletes: the DATA Project*. Advisor for Undergraduate Research Mentorship 2016-2017.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2017.
- Sara Kazyak. *Acute Effects of 100% Watermelon Juice on Vasodilation*. Advisor for Undergraduate Research Mentorship 2016-2017.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2017.
- Anna Bragg. *Cardiometabolic Disease Staging and Inflammatory Status in Obese Older Adults*. Advisor for Undergraduate Research Mentorship 2016.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2016.
 - Poster presentation at Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo, October 2016.
- Rainey Gerald. *Accuracy of Dietary Recalls and Food Frequency Questionnaires in Determining Nutrient Intake*. Co-advisor for Undergraduate Research Mentorship 2016.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2016.
- Reagan Hattaway & Mary Clay Kline. *Phenolic and Flavonoid Content of Phyllostachys aurea*. Advisor for the University of Alabama's Emerging Scholar Program 2015-2016.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2016.
- Madeline Gibson. *Characterizing the Phenolic Profile of Raw and Pasteurized Honey*. Advisor for the University of Alabama's Emerging Scholar Program 2014-2015.
 - Poster presentation at the Institute of Food Technologists Annual Meeting 2015.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2015.
- Mary Muffly. *The Acid-Base Hypothesis: Dietary Protein and Bone Health among Older Adults*. Advisor for the University of Alabama's Emerging Scholar Program 2014-2015.
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2015.
- Elizabeth Murray. *Phenolic Content and Antioxidant Density of Solid Fruit versus 100% Fruit Juice*. Advisor for NHM 491 – Directed Independent Study 2012.
 - *J Acad Nutr Diet* 2013;113:1354-1358
 - *J Nutritional Ecol Food Re.s* 2014;2:49-53
 - Poster presentation at the University of Alabama Undergraduate Research and Creative Activity Conference 2013

TEACHING EXPERIENCE AND COURSE DEVELOPMENT

- NHM 602 Methods in Translational Nutrition Research
- NHM 558 Nutrition in the Prevention of Chronic Disease
- NHM 454 Experimental and Functional Foods
- NHM 395 Research Methods in Food and Nutrition
- NHM 253 Food Science

COURSE DEVELOPMENT FOR ONLINE DELIVERY

- NHM 558 Nutrition in the Prevention of Chronic Disease
- NHM 454 Experimental and Functional Foods
- NHM 253 Food Science

PROFESSIONAL SERVICE POSITIONS

National

- **Academy of Nutrition and Dietetics** (*appointed positions*)
 - Evidence Analysis Library: Flavon-3-ols and Cardiometabolic Disease Workgroup
 - Chair of the Guideline Committee and First Author, 2020 – 2022
 - Evidence Analysis Library: Umami and Sodium Reduction Workgroup
 - Content Advisor and First Author, 2020-2022
 - Council on Research, 2016-2017
 - Evidence-Based Practice Committee, 2015-2018
 - Committee Chair, 2016-2017
 - Evidence Analysis Library: Dietary and Metabolic Impact of Fruit Juice
 - Committee Chair 2013-2014
 - Evidence Analysis Library: Umami in Healthy Eating
 - Committee Chair, 2012-2014
 - Evidence Analysis Library: Umami in Foods
 - Committee Member, 2011-2013
 - Co-author of the Academy position paper on functional foods.
 - *J Acad Nutr Diet.* 2013;113:1096-1103
- **Academy of Nutrition and Dietetics** (*elected position*)
 - Cardiovascular Health and Wellbeing Dietetic Practice Group – Executive Committee, Membership Engagement Chair, 2023 - present
- **American Society for Nutrition** (*elected position*)
 - Nutrition Translation Research Interest Group, Academic Advisor, 2018 - present
- **Editorial Board Appointments**
 - *Annals of Medicine*, Associate Editor of Nutrition, 2020 – present
 - Guest Editor for Food as Medicine Special Issue, 2023 - present
 - *Brain Disorders*, Guest Editor for Special Issue on Oxidative Stress, Antioxidant Defense, and Neurodegeneration – 2021 – 2023
 - *Journal of Dietary Supplements*, Associate Editor, 2023 - present
 - *Journal of Food Science*, Associate Editor, 2022 – present
 - *Nutrition and Healthy Aging*, Editorial Board, 2023 - present
- **Institute of Food Technologists**
 - Media Spokesperson, 2007 – present
 - Outstanding Section Volunteer, 2010
 - Nutrition Division Research Reviewer, 2008-2012

- Southeast Section Chair, 2009-2010

University/State Service

- **Alabama Research Institute on Aging**
 - Executive Committee, 2019 – present
 - Faculty Associate 2016 – present
- **University of Alabama**
 - Center for Convergent Bioscience and Medicine
 - Advisory Board – 2021 - present
 - Institutional Biological Safety Committee
 - Chair, 2012 – present
 - Food Science Club
 - Academic Advisor, 2014 – 2016
 - Preceptor for NHM 491 – Research Externship, 2016 – 2018
- **Advisory Boards** (*appointed positions*)
 - McCormick Science Institute Scientific Advisory Council, 2023 - present
 - Produce for Better Health Foundation Scientific Advisory Council, 2021 - 2023
 - University of Alabama at Birmingham Leadership Education in Pediatric Nutrition Advisory Board, 2020 - 2023
 - University of Alabama at Birmingham Pediatric Pulmonary Advisory Board, 2020 - 2023
 - Samford University Department of Nutrition Advisory Board, 2007 – present
 - Alabama Obesity Initiative Conference Committee Chair, 2010 – 2016

PROFESSIONAL MEMBERSHIPS

- Academy of Nutrition and Dietetics, 2009 - present
- American Chemical Society, 2006 - present
- American Society for Nutrition, 2016 - present
- Institute of Food Technologists, 2001- present
- Kappa Omicron Nu Honor Society, 1999 - present
- Phi Kappa Phi Honor Society, 2003 - present
- Phi Tau Sigma Honor Society, 2001 - present

HONORS AND AWARDS

- National Academy of Inventors Inductee 2023
- Samford University School of Public Health Alumni of the Year Award 2017
- University of Alabama President's Faculty Research Award 2016
- University of Alabama College of Human Environmental Sciences Leadership Board Excellence in Scholarly Research Award 2015
- Academy of Nutrition and Dietetics Foundation Margaret D. Simko Memorial Award for Excellence in Clinical Poster Session, 1st runner up, October 2015
- University of Alabama at Birmingham Outstanding Alumni in Nutrition Spotlight, 2012

- University of Maine Dow, Griffiee, & Clements Outstanding Graduate Research Award, 2005
- Institute of Food Technologists Food Product Development Competition
 - First Place, University of Maine, 2006
- Northeast Region Institute of Food Technologists Graduate Scholarship (4), 2003-2006
- Phi Mu Women in Science Graduate Research Scholarship (2), 2004-2006
- Proctor & Gamble Co. Graduate Research Fellowship, 2005-2006
- University of Maine Department of Food Science & Human Nutrition Graduate Research Scholarship, 2002 & 2004