

Kristi M. Crowe-White, PhD, RD

University of Alabama

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Academics

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

Scholarly Training

- 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 – to present
 - 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 redox and inflammatory balance along with clinical outcomes related to obesity, cardiometabolic disease, and aging.
- **Aim 2** – Explore epigenetic influences and genetic variants underlying individual responsiveness to nutrition interventions for the purpose of optimizing treatment effectiveness.

Intellectual Properties

- The University of Alabama, **Crowe-White KM**. U.S. Patent Application Publication No. 2020/0038319: “Antioxidant Infused Gum for Improving Oral Health,” February 6, 2020.

Funded Research - External

- **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 (PI, 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
- 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
- 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
- Gosa M. Collaborators: Bolland A, **Crowe-White KM (co-I)**. (2018). *Usefulness of the Adapted Pre-Feeding Skills Checklist for Identification of Oral Phase Dysphagia in Non-Medically Complex Children with Feeding Difficulties*. American Speech-Language-Hearing Foundation.
Award: \$10,000.00
- **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
- Ellis AC, **Crowe-White KM (co-PI)**. (2015-2017). *Acute Effects of Watermelon on Vascular Function and Serum Lycopene*. Academy of Nutrition and Dietetics Healthy Aging Dietetics Practice Group.
Award: \$4,000.00
- 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: \$15,000.00
- Allison DB, **Crowe KM (co-I)**. (2012). *Scientific Approaches for Increasing Research Integrity in Nutrition and Energetics*. The Coca-Cola Company Conference Grant.
Award: \$149,498.00
- **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

Funded Research - Internal

- 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/>

* denotes student-mentored research

- Park H, Hayden MM, Bannerman S, Jansen J, **Crowe-White KM**. Effects of Carotenoids in Neurodegeneration. *Molecules*. Accepted July 27, 2020.
- 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*. Accepted June 22, 2020.
- 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*. Accepted June 8, 2020.
- **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*. Accepted May 30, 2020.
- 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.
- 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.

- 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.
- 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.
- *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. doi:10.1080/10408398.2019.1665495
- 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). doi:10.3390/antiox8060195.
- *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.
- 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*. E-pub ahead of print – August 2019. doi: 10.1080/19320248.2019.1658682
- 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
- ***Crowe-White KM**, Phillips TA, Ellis AC. Lycopene and Cognitive Function. *J Nutr Sci*. 2019;8(e20):1-8.
- **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.
- 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.
- *Senkus KE, Tan L, **Crowe-White KM**. Lycopene and Metabolic Syndrome: A Systematic Review of the Literature. *Adv Nutr*. 2019;10:19-29.
- ***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.
- 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.
- **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.
- 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.
- **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.

- *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.
- **Crowe KM**, Allison DB. Evaluating Bioactive Food Components in Obesity and Cancer Prevention. *Crit Rev Food Sci Nutr*. 2015;55:732-734.
- ***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.
- **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.
- **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.
- **Crowe KM**. Designing Functional Foods with Bioactive Polyphenols: Highlighting Lessons Learned from Original Plant Matrices. *J Human Nutr Food Sci*. 2013;1:1018-1019.
- **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**, 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.
- Ellis A, **Crowe KM**, Lawrence J. Obesity-related Inflammation: Implications for Older Adults. *J Nutr Gerontol Geriatr*. 2013;32:263-290.
- *Breshears K, **Crowe KM**. Sensory and Textural Evaluation of Gluten-Free Bread Substituted with Amaranth and Montina™ Flour. *J Food Res*. 2013;2(4):1-10.
- 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.
- **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.
- **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.
- **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.
- **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.
- **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.
- **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-based 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, 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 C. A., **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)

- Douglas J, **Crowe-White KM**, Ellis AC, Bui C, Voruganti S, Yaffe K. *Change in Body Mass Index is Associated with Change in Cognition in Older Adults*. The 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.
- *Senkus KE, **Crowe-White KM**, Knol L. *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.
- 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 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.
- 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.
- *Brantley C, Knol L, **Crowe-White KM**, Appel SJ, Adewumi OE. *Mindful Eating is related to Lower Intake of Energy and Added Sugars among Overweight, Premenopausal Women*. 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 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).
- *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.
- 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.
- 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*. Pacifichem 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

- 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.

Dissertation Committees

- 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 - present).

Thesis Committees

- 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).
- Amelia Foster. *Sensory Comparison of Low-Protein Recipes with Glycomacropeptide-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).
- Caroline Glagola-Dunn. *Financial Impact of Grocery Tax on Fruit and Vegetable Purchases in Alabama*. Committee Member (2011 – 2012).

Mentored Capstone 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.
 - Accepted for presentation at American Society for Nutrition 2020, June 2020.
- 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

- 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 Res* 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 and Treatment of Chronic Disease
- NHM 454 Experimental and Functional Foods
- NHM 295 Research Methods in Food and Nutrition
- NHM 253 Food Science

Course Development for Online Delivery

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

Professional Service Positions

National

- **Academy of Nutrition and Dietetics** (*all appointed positions*)
 - Evidence Analysis Library: Flavon-3-ols and CVD Workgroup
 - Chair of the Guideline Committee, January 2020 – present
 - Evidence Analysis Library: Umami and Sodium Reduction Workgroup
 - Content Advisor and Author, June 2020 - present
 - Council on Research, 2016-2017
 - Evidence-Based Practice Committee, 2015-2018
 - Committee Chair, 2016-2017
 - Evidence Analysis Library – Chair, Dietary and Metabolic Impact of Fruit Juice Consumption, 2013-2014
 - Evidence Analysis Library - Chair, Umami in Healthy Eating, 2012-2014
 - Evidence Analysis Library - Member, Umami in Foods, 2011-2013
 - Co-author of the Academy position paper on functional foods.
 - *J Acad Nutr Diet.* 2013;113:1096-1103.

- **American Society for Nutrition**
 - Nutrition Translation Research Interest Group, 2018 – present
 - Advisory Committee, Academic Representative, August 2019 - present

- **Editorial Board Appointments**
 - *Journal of Human Nutrition and Food Science*, June 2013 – present

- **Invited Reviewer**
 - *Journal of the Academy of Nutrition and Dietetics*
 - *Journal of Food Science*
 - USDA SBIR Phase I Food Science and Nutrition Program Grants

- **Institute of Food Technologists**
 - Food Science Expert, 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 (ARIA)**
 - Executive Committee, 2019 – to present
 - Faculty Associate 2016 – to present

- **University of Alabama**
 - Institutional Biological Safety Committee Chair, 2012 – present
 - Food Science Club Chair, 2014 – 2016
 - Preceptor for NHM 491 – Research Externship, 2016 – present

- **Advisory Boards – Appointed Positions**

- University of Alabama at Birmingham Leadership Education in Pediatric Nutrition Advisory Board, 2020 - present
- University of Alabama at Birmingham Pediatric Pulmonary Advisory Board, 2020 - present
- 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
- Alabama Obesity Initiative, 2010 - 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

- 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, Griffee, & Clements Outstanding Graduate Research Award, 2005
- Institute of Food Technologists Food Product Development Competition
 - First Place, University of Maine YoBon Berry Bites, 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