

Kembra Albracht-Schulte, M.S., Ph.D.

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EDUCATION

Doctor of Philosophy, Nutritional Sciences, Texas Tech University, Lubbock, TX, 2014- 2018
Dissertation Title: Hepatoprotective Mechanisms of Eicosapentaenoic Acid in High-Fat Fed Mice and Identification of Biomarkers for Nonalcoholic Fatty Liver Disease in Humans. Chairs: Dr. Naima Moustaid-Moussa and Dr. Latha Ramalingam, Funding: USDA NIFA AFRI ELI Predoctoral Fellowship, 2017-2019
GPA: 4.0

Master of Science, Exercise Science, Texas Tech University, Lubbock, TX, 2012-2014
Thesis Title: Effects of emotional exposure on state anxiety and physiological measures of stress reactivity after an acute YogaFit session, Chair: Dr. Jacalyn McComb
GPA: 3.92

Bachelor of Science, Exercise Science, Lubbock Christian University, Lubbock, TX, 2006-2010
GPA: 3.94, summa cum laude

PROFESSIONAL POSITIONS

- 2025- **Director**, Center of Excellence in Obesity and Cardiometabolic Research, Institute for One Health Innovation, Texas Tech University (TTU), Lubbock, TX.
- 2021- **Assistant Professor**, Department of Kinesiology & Sport Management, Texas Tech University (TTU), Lubbock, TX.
- 2020-21 **USDA NIFA Postdoctoral Fellow** (USDA AFRI ELI Postdoctoral Fellowship), *Mentor*, Dr. Naima Moustaid-Moussa, Nutrigenomics, Inflammation & Obesity Research (NIOR) Lab, TTU, Lubbock, TX. **Focus**: combination of omega-3 polyunsaturated fatty acids and high-intensity interval training in the improvement of gut microbiota and reduction of obesity-associated inflammation.
- 2020 **Adjunct Faculty**, Department of Kinesiology & Sport Management, TTU, Lubbock, TX.
- 2019-20 **Postdoctoral Research Associate**, *Mentor*, Dr. Naima Moustaid-Moussa, Nutrigenomics, Inflammation & Obesity Research (NIOR) Lab, TTU, Lubbock, TX. **Focus**: (1) Role of uncoupling proteins and fish oil on liver metabolism in diet-induced obese mice; (2) Effects of beef proteins on obesity, diabetes and gut microbiome.
- 2017-19 **USDA NIFA Predoctoral Fellow** (USDA AFRI ELI Predoctoral Fellowship), *Mentors*, Dr. Naima Moustaid-Moussa, and Dr. Latha Ramalingam, Nutrigenomics, Inflammation & Obesity Research Lab, TTU, Lubbock, TX. **Focus**: obesity-independent effects of omega-3 polyunsaturated fatty acids in treatment of nonalcoholic fatty liver disease using C57BL/6 mice and human hepatoma HepG2 cells.
- 2015-18 **Research Assistant**, *Mentors*, Dr. Naima Moustaid-Moussa, Ph.D., and Dr. Latha Ramalingam, Ph.D., Nutrigenomics, Inflammation & Obesity Research Lab, TTU, Lubbock, TX. **Focus**: serum biomarkers of nonalcoholic fatty liver disease in South Asian females. Other: **Administrative Assistant**, USDA Project Directors' Meeting (USDA AFRI Nutrition Program Conference Grant, Moustaid-Moussa).

- 2014-18 **Graduate Part-time Instructor (GPTI)**, Department of Nutritional Sciences, TTU, Lubbock, TX.
- 2014-15 **Adjunct Faculty**, Department of Exercise and Sport Sciences, Lubbock Christian University (LCU), Lubbock, TX.
- 2012-14 **Teaching Assistant**, Department of Kinesiology and Sport Management, TTU, Lubbock, TX.
- 2010-11 **Research Assistant**, Department of Internal Medicine, Texas Tech University Health Sciences Center (TTUHSC), Lubbock, TX. *Mentor*, Dr. Kenneth Nugent, M.D. **Focus**: sleep habits in internal medicine patients referred to a dietician for weight loss and/or counseling.

FUNDING AND GRANTS AWARDED

Awarded

- 2025 **Arts & Sciences Undergraduate Research Experience Program** (undergraduate scholar – Hafsa Pathan; \$2,000), *Exploring the Anti-Inflammatory Potential of Curcuma Species through mRNA Expression*, College of Arts & Sciences in conjunction with the Texas Tech Center for Transformative Undergraduate Experiences (TrUE), TTU
- 2025 **Institute for One Health Innovation Seed Grant** (co-PI; \$100,000), *A Human-Relevant C. elegans Platform to Study Gut Microbiome-Mediated Effects of Microplastics*, Institute for One Health Innovation, TTU and TTUHSC
- 2025 **Cross-College Collaboration Seed Grant** (\$10,000), College of Health & Human Sciences, TTU
- 2025 **Faculty Travel Grant** (\$1,000), *Advancing Research Visibility and Scholarly Achievement at the American Society for Nutrition Annual Meeting*, Office of Research & Innovation, TTU
- 2025 **Faculty and Staff Wellbeing & Success Mini-Grant** (\$2,000), Faculty Success, Office of the Provost, TTU
- 2024 **One Microbiome, TUF Investment Opportunity** (\$8,980,000), *One Microbiome Research/ Precision Microbiome in One Health*, Team: Moustaid-Moussa, N., Albracht-Schulte, K., Brown, A., Slaughter, L., Phillips, C., Chelikani, P., Walla, A., Arnold, C., Li, D., Rumbaugh, K., Dufour, J.
- 2024 **College of Arts and Sciences Undergraduate Research Experience Program Funding** (undergraduate scholar – Kaitlin Murphy \$2,000), *Unlocking the Anti-Inflammatory Power of Turmeric*, College of Arts & Sciences, TTU
- 2023 **College of Arts and Sciences Undergraduate Research Experience Program Funding** (undergraduate student – Megan George; \$2,000), *Exercise and Glucose Tolerance*, College of Arts & Sciences, TTU
- 2023 **Portz Interdisciplinary Fellowship** (undergraduate scholar – Kaitlin Murphy; \$1,500), National Collegiate Honors Council, *Chemotypes of 10 Curcuma longa (Turmeric) Species and Potential to Improve Obesity-Associated Inflammation*
- 2023 **Graduate Enrollment Enhancement Program** (GEEP; visiting student, Diana Combs), TTU
- 2022 **Welch Academy Grant** (Lubbock Christian University undergraduate and Welch Academy Scholar – Dakota Robison; \$1,000), *Exercise and Age-Related Mitochondrial Dysfunction in the Liver*, The Welch Foundation
- 2022 **F3 Foundation Sua Sponte Grant** (\$2,500), *A Pilot Study on the Impact of a Peer Led Outdoor Workout Group on the Mens' Health Status*

2022	College of Arts and Sciences Undergraduate Research Experience Program Funding (undergraduate scholar – Kiara Garza; \$2,000), <i>Exercise and the Microbiome</i> , College of Arts & Sciences, TTU
2021	TTU Faculty Travel Grant (\$1,000)
2021	TTU Open Access Publication Initiative Funding (\$1000), <i>Sex-Dependent Effects of Eicosapentaenoic Acid on Hepatic Steatosis in UCP1 Knockout Mice</i>
2021-26	USDA AFRI REEU (Collaborating Scientific Mentor, \$500,000), <i>The Nutrition Bench to Community Scholars in Texas (Nutrition BEST) Research and Extension Training Program for Undergraduates</i>
2020-24	NIH Loan Repayment Program (LRP) , <i>Combining Fish Oil and Exercise to Improve Obesity-Associated Inflammation</i>
2020-24	USDA NIFA AFRI ELI Postdoctoral Fellowship (PI, \$165,000), <i>Combining Fish Oil and Exercise to Improve Obesity-Associated Inflammation</i> (converted to a standard grant, 2021)
2020	ASBMB Postdoctoral Travel Award (\$1,000), ASBMB Annual Meeting and Experimental Biology 2020
2019	Beef Checkoff, National Cattlemen’s Beef Association (Co-PI; \$25,336), <i>Beef Proteins, Gut Microbiome, and Health: A Systematic Review</i>
2018	ASBMB Child Care Grant (\$1,000), ASBMB Annual Meeting and Experimental Biology 2018
2018	TTU Open Access Publication Initiative Funding (\$1716), <i>The Effects of Yoga and Quiet Rest on Subjective Levels of Anxiety and Physiological Correlates: A 2-Way Crossover Randomized Trial</i>
2017-19	USDA NIFA AFRI ELI Predoctoral Fellowship (PI, \$95,000), <i>MicroRNAs as Mediators of Omega-3 Fatty Acids Effects on Inflammation and Lipid Metabolism</i>
2015	TTU Graduate School Grant-in-Aid (\$1,000), <i>Eicosapentaenoic Acid and Nonalcoholic Fatty Liver Disease</i>

SELECTED AWARDS/DISTINCTIONS

2025	Outstanding Faculty Mentor (nominated by Krista Landeros), Center for Transformative Undergraduate Experiences, TTU
2023	Outstanding Faculty Mentor, Center for Transformative Undergraduate Experiences, TTU
2022	Outstanding Faculty Mentor, Center for Transformative Undergraduate Experiences, TTU
2019	1st place, Postdoc Oral Competition, Obesity Research Institute’s Annual Meeting, TTU
2019	1st place, Outstanding Dissertation Award, Biological and Life Sciences, TTU Graduate School
2018	Graduate School Banner Bearer, TTU, Commencement

PUBLICATIONS | PRESENTATIONS | ABSTRACTS

Published Abstracts

Senior/corresponding author is listed last on all publications; † = student under my mentorship

1. †Combs DF, †Azari H, Sandoval DF, Cistola DP, **Albracht-Schulte K**. Plasma Water T2 is Associated with Exercise Duration in Females with Excess Body Weight. *Med. Sci. Sports Exerc.* 2025, 57, 253–253, <https://doi.org/10.1249/01.mss.0001156704.33856.5f>.

2. †Smith C, †Garza K, †Azari H, Vellers H, Abdelrahman M, Dhanasekara CS, Salmon AB, Liang H, Fernandez E, Musi N, Massett M, **Albracht-Schulte K**. Aerobic Exercise Training Alters Gastrointestinal Microbiota In Het3 Mice: 2456. *Medicine & Science in Sports & Exercise*, 2025. 57(10S) DOI: 10.1249/01.mss.0001161848.15066.aa
3. †Azari H, †Galindo S, †Combs D, Dhanasekara C, Chemitiganti R, Park OH, Moustaid-Moussa N, **Albracht-Schulte K**. Combined Effects of Fish Oil Supplementation and High-Intensity Interval Training on Lipid Profiles in Individuals with Overweight or Obesity: Preliminary Results. *Current Developments in Nutrition*, 2025. 9: p. 107202.
4. †Jafarabadi GS, †Combs D, †Azari H, Dhanasekara C, Chemitiganti R, Park OH, Moustaid-Moussa N, **Albracht-Schulte K**. Combined Effects of Fish Oil and High-Intensity Interval Training on Body Composition in Individuals Classified as Overweight: Preliminary Results. *Current Developments in Nutrition*, 2025. 9: p. 107254.
5. †Azari H, †Galindo S, †Combs D, Chen F, Chemitiganti R, Park OH, Moustaid-Moussa N, **Albracht-Schulte K**. Impact of Exercise Intensity on Short Chain Fatty Acids and Other Markers of Obesity-Associated Metabolic Dysfunction. *Current Developments in Nutrition*. 2024 Jul 1;8(2): p: 103530.
6. †Azari H, †Garza K, †Galindo S, †Balagopal N, Salmon A, Liang H, Fernandez E, Villanueva V, Musi N, Hornsby P, Massett M, Vellers H, Fokar M, Crasto C, **Albracht-Schulte K**. P20-055-23 Effects of Aerobic Exercise Training on Age-Related Dysbiosis in HET3 Male Mice. *Current Developments in Nutrition*. 2023 Jul 1;7: p. 101559.

Peer-Reviewed Publications

7. Florez C, **Albracht-Schulte K**, Levitt DEW, Mota JA, Tinsley GM. Implications of Obesity in the United States Military: Unfit to Serve?, *BMJ Military Health*, 2025 Dec 25:military-2025-003145. doi: 10.1136/military-2025-003145. Epub ahead of print. PMID: 41448856.
8. Sosa-Holwerda A, Park OH, **Albracht-Schulte K**, Niraula S, Thompson L, Oldewage-Theron W. The Role of Artificial Intelligence in Nutrition Research: A Scoping Review. *Nutrients*, 2024 Jun 28;16(13):2066. doi: 10.3390/nu16132066. PMID: 38999814; PMCID: PMC11243505.
9. †Azari H, †George M, and **Albracht-Schulte K**. Gut Microbiota-microRNA Interactions and Obesity Pathophysiology: A Systematic Review of Integrated Studies. *Int J Mol Sci*, 2024. 25(23). <https://doi.org/10.3390/ijms252312836>.
10. Sosa-Holwerda A, Park OH, **Albracht-Schulte K**, Niraula S, Thompson L, Oldewage-Theron W. The Role of Artificial Intelligence in Nutrition Research: A Scoping Review. *Nutrients* 2024, 16, 2066, <https://doi.org/10.3390/nu16132066>
11. Salas-Groves E, Childress A, **Albracht-Schulte K**, Alcorn M, and Galyean S. Effectiveness of a Home-Based Exercise and Nutrition Program for Senior Adults on Muscle Quality: A Scoping Review. *Clin Interv Aging*, 2023: 18, 1067-1091. doi.org/10.2147/CIA.S400994
12. Siedler MR, De Souza MJ, **Albracht-Schulte K**, Sekiguchi Y, Tinsley GM. The Influence of Energy Balance and Availability on Resting Metabolic Rate: Implications for Assessment and Future Research Directions, *Sports Med*, 2023: 53(8):1507-1526, doi:10.1007/s40279-023-01856-7.
13. Islam T, **Albracht-Schulte K**, Ramalingam L, Schlabritz-Lutsevich N, Park O, Zabel-Moghaddam M, Kalupahana NS, and Moustaid-Moussa N. Anti-inflammatory mechanisms of polyphenols in adipose tissue: role of gut microbiota, intestinal barrier integrity and zinc homeostasis. *J Nutr Biochem*, 2022. 115: p. 109242, doi: 10.1016/j.jnutbio.2022.109242.
14. Stratton M, **Albracht-Schulte K**, Tinsley GM. Physiological Responses to Acute Fasting: Implications for Intermittent Fasting Programs. *Nutrition Reviews*, 2022, 10;80(3):439-452, doi: 10.1093/nutrit/nuab094.

15. **Albracht-Schulte K**, Wilson S, Johnson P, Pahlavani M, Ramalingam L, Goonapienuwala B, Kalupahana NS, Festuccia W, Scoggin S, Kahathuduwa CN, Moustaid-Moussa, N. Sex-Dependent Effects of Eicosapentaenoic Acid on Hepatic Steatosis in UCP1 Knockout Mice. *Biomedicines*, 2021, 9, 1549, <https://doi.org/10.3390/biomedicines9111549>.
16. Islam T, Koboziev I, **Albracht-Schulte K**, Mistretta B, Scoggin S, Yosofvand M, Moussa M, Zabet-Moghaddam M, Ramalingam L, Gunaratne, PH, Moustaid-Moussa N. Curcumin Reduces Adipose Tissue Inflammation and Alters Gut Microbiota in Diet-Induced Obese Male Mice. *Molecular Nutrition & Food Research*, 2021, 2100274. doi: 10.1002/mnfr.202100274
17. **Albracht-Schulte K**, Islam T, Johnson P, Moustaid-Moussa N. Systematic Review of Beef Protein Effects on Gut Microbiota: Implications for Health. *Advances in Nutrition*, 2020, nmaa085, doi:10.1093/advances/nmaa085.
18. Jordan S, **Albracht-Schulte K**, Robert-McComb J. Can a Balanced Diet make the Use of Supplements Unnecessary in High-level Female Athletes? *PharmaNutrition*, 2020, 14:100229. doi: 10.1016/j.phanu.2020.100229
19. **Albracht-Schulte K**, Rosairo S, Ramalingam L, Wijetunge S, Ratnayake RMCJ, Kotakadeniya HMSRB, Dawson JA, Kalupahana NS, Moustaid-Moussa N. Obesity, Adipocyte Hypertrophy, Fasting Glucose and Resistin are Potential Contributors to Non-Alcoholic Fatty Liver Disease in South Asian Women. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, 2019, 12:863-872. doi: 10.2147/DMSO.S203937
20. **Albracht-Schulte K**, Gonzales S, Jackson A, Wilson S, Ramalingam L, Kalupahana NS, Moustaid-Moussa N. Eicosapentaenoic Acid Improves Hepatic Metabolism and Reduces Inflammation Independent of Obesity in High-Fat Fed Mice and in HepG2 Cells. *Nutrients*, 2019, 11(3):599. doi: 10.3390/nu11030599.
21. Wijetunge S, Ratnayake RMCJ, Kotakadeniya HMSRB, Rosairo S, **Albracht-Schulte K**, Ramalingam L, Moustaid-Moussa N, Kalupahana NS. Association between Serum and Adipose Tissue Resistin with Dysglycemia in South Asian Women. *Nutrition and Diabetes*, 2019, 9(1):5. <https://doi.org/10.1038/s41387-019-0071-3>
22. **Albracht-Schulte K**, Robert-McComb J. The Effects of Yoga and Quiet Rest on Subjective Levels of Anxiety and Physiological Correlates: A 2-Way Crossover Randomized Trial. *BMC Complementary and Alternative Medicine*, 2018, 18:280. doi: 10.1186/s12906-018-2343-1.
23. **Albracht-Schulte K**, Kalupahana NS, Ramalingam L, Wang S, Rahman S, Robert-McComb J, Moustaid-Moussa N. Omega-3 Fatty Acids in Obesity and Metabolic Syndrome: A Mechanistic Update. *Journal of Nutritional Biochemistry*, 2018, 58:1-16. doi: 10.1016/j.jnutbio.2018.02.012.

Pending Publications

1. †Combs D, †Landeros K, †Garza K, †Azari H, Abdelrahman M, **Albracht-Schulte K**. Exercise Intensity as a Modulator of Gut Microbiota and Host Metabolic Health in Obesity (pending, *Gut Microbes*).
2. †Azari H, †Combs D, †Galindo S, †Shabani Jafarabadi G, Chemitiganti R, Park OH, Moustaid-Moussa N, **Albracht-Schulte K**. Combined Effectiveness of Fish Oil and High-Intensity Interval Training in Obesity Associated Metabolic Dysfunction: Protocol for an Innovative, Double-Blinded, Randomized Clinical Trial (pending, *Contemporary Clinical Trials*)
3. †Smith C, †Garza K, †Azari H, Vellers H, Abdelrahman M, Dhanasekara CS, Salmon AB, Liang H, Fernandez E, Musi N, Massett MP, **Albracht-Schulte K**. Aerobic Exercise Training Alters Gastrointestinal Microbiota in UM-HET3 Mice (pending, *AJP-Endocrinology*)

Books/Book Chapters

1. **Albracht-Schulte K**, Gary A, Forsyth J, Robert-McComb J. (2023). “The Physiology of Anorexia Nervosa and Bulimia Nervosa”. In J. Robert-McComb, R. Norman, & M. Zumwalt (Eds.). *The Active Female: Health Issues Throughout the Lifespan* (3rd ed.). New York, NY: Springer Science+Business Media.
2. **Albracht-Schulte K**, Robert-McComb J, Gonzalez A, Carraway L. (2023). “Nutritional Guidelines and Energy Needs During Pregnancy and Lactation”. In J. Robert-McComb, R. Norman, & M. Zumwalt (Eds.). *The Active Female: Health Issues Throughout the Lifespan* (3rd ed.). New York, NY: Springer Science+Business Media.
3. Robert-McComb J, **Albracht K**, Gary A. (2014). “The Physiology of Anorexia Nervosa and Bulimia Nervosa”. In J. Robert-McComb, R. Norman, & M. Zumwalt (Eds.). *The Active Female: Health Issues Throughout the Lifespan* (2nd ed., pp. 149-176). New York, NY: Springer Science+Business Media.

Conference Presentations

1. **Albracht-Schulte K**. A Human-Relevant *C. elegans* Platform to Study Gut Microbiome-Mediated Effects of Microplastics. Oral presentation at the Institute for One Health Innovation’s Annual Meeting, Lubbock, TX, November 2025.
2. **Albracht-Schulte K**. Synergistic Strategies: Omega-3 PUFAs and HIIT for Metabolic Health. Oral presentation at the Obesity Research Institute’s Annual Meeting, Lubbock, TX, May 2025.
3. †Combs D, †Azari H, Sandoval DF, Cistola C, **Albracht-Schulte K**. Plasma Water T2 is Associated with Exercise Duration in Females with Excess Body Weight. Poster presentation as at the American College of Sports Medicine (ACSM) Annual Meeting, Atlanta, GA, May 2025 and at the Obesity Research Institute’s Annual Meeting, Lubbock, TX, May 2025.
4. †Smith C, †Galindo S, Salmon AB, Liang H, Fernandez E, Villanueva V, Musi N, Hornby PJ, Massett MP, Vellers H, **Albracht-Schulte K**. Preliminary Findings: Effects of aerobic exercise training on livers of HET3 male mice. Poster presentation at the American College of Sports Medicine (ACSM) Annual Meeting, Atlanta, GA, May 2025 and at the Obesity Research Institute’s Annual Meeting, Lubbock, TX, May 2025.
5. †Azari, H., et al., Combined Effects of Fish Oil Supplementation and High-Intensity Interval Training on Lipid Profiles in Individuals with Overweight or Obesity: Preliminary Results. Oral presentations via selection as a Top 5 Finalist in the Emerging Leaders competition at the annual meeting for the American Society for Nutrition (ASN), Orlando, FL, May 2025, and as a Top 3 Finalist for graduate abstracts at the Obesity Research Institute’s Annual Meeting, Lubbock, TX, May 2025.
6. †Jafarabadi, G.S., et al., Combined Effects of Fish Oil and High-Intensity Interval Training on Body Composition in Individuals Classified as Overweight: Preliminary Results. Poster presentations at the annual meeting for the American Society for Nutrition (ASN), Orlando, FL, May 2025, and at the Obesity Research Institute’s Annual Meeting, Lubbock, TX, May 2025.
7. Salas-Groves E, Childress A, **Albracht-Schulte K**, Alcorn M, and Galyean S. The Effect of Culinary Medicine to Enhance Protein Intake on Muscle Quality in Older Adults. Food & Nutrition Conference & Expo (FNCE) October 2024, Minneapolis, MN
8. Mahendru T, **Albracht-Schulte K**, Hooper T, Riggs C, †Perry C, Brooks T, Norburry J. Impact of a Peer Led Outdoor Men’s Workout Group on Health-Related Quality of Life and Factors Associated with Increased Consistency in Engaging in Physical Activity. Poster presentation

at Physiatry '24, the Association of Academic Physiatrists (AAP) Annual Meeting, Orlando, FL, February 2024.

9. †Azari H, †Garza K, †Galindo S, †Balagopal N, Salmon A, Liang H, Fernandez E, Villanueva V, Musi N, Hornsby P, Massett M, Vellers H, Fokar M, Crasto C, **Albracht-Schulte K**. Effects of Aerobic Exercise Training on Age-Related Dysbiosis in HET3 Male Mice. Poster presentation at Nutrition '23, the American Society for Nutrition's Annual Meeting, Boston, MA, July 2023.
10. **Albracht-Schulte K**. Combining Fish Oil and Exercise to Improve Obesity-Associated Inflammation. Oral presentation at the 8th Annual Obesity Research Institute Meeting, Diabetes: A Texas Sized Issue, Lubbock, TX, May 2023.
11. †Shudde A, Blume GR, Salmon AB, Liang H, Fernandez E, Villanueva V, Musi N, Hornsby PJ, Massett MP, Black CD, Vellers HL, **Albracht-Schulte K**. Hepatic Effects of Aerobic Exercise Training in HET3 Mice. Oral presentation (Shudde), **2nd place**, Healthcare Impact, at the Undergraduate Research Conference, TTU, Lubbock, TX, March 2022.
12. †Perry C, †Garza K, †Shudde A, †Galindo S, †Odukwu E, TTUHSC Clinical Research Institute, Chemitiganti R, Park OH, Moustaid-Moussa N, **Albracht-Schulte K**. Effect of High-Intensity Interval Training on Cardiorespiratory Fitness in Adults with Prediabetes. Poster presentation (Perry) at the Undergraduate Research Conference, TTU, Lubbock, TX, March 2022.
13. †Odukwu E, †Perry C, †Garza K, †Shudde A, †Galindo S, **Albracht-Schulte K**. The COVID-19 (coronavirus) Pandemic and Exercise Monitoring in Human Subjects' Research. Poster presentation (Odukwu) at the Undergraduate Research Conference, TTU, Lubbock, TX, March 2022.
14. †Garza K, †Odukwu E, †Perry C, †Shudde A, †Galindo S, **Albracht-Schulte K**. Exercise Intensity, and the Gut Microbiome: Implications for Therapeutic Combinations. Poster presentation (Garza) at the Undergraduate Research Conference, TTU, Lubbock, TX, March 2022.
15. †Galindo S, Wang HC, †Perry C, †Odukwu E, †Garza K, †Shudde A, Park OH, Chemitiganti R, Moustaid-Moussa N, TTUHSC Clinical Research Institute, **Albracht-Schulte K**. Gut Microbiota Profile of Subjects with Prediabetes and Obesity. Poster presentation (Galindo) at the Undergraduate Research Conference, TTU, Lubbock, TX, March 2022.
16. **Albracht-Schulte K**, †Galindo S, †Anjum S, Pahlavani M, Ramalingam L, Kalupahana NS, Festuccia W, Scoggin S, Kahathuduwa C, Moustaid-Moussa N. Sex-Dependent Effects of Eicosapentaenoic Acid and UCP1 Deficiency on Hepatic Steatosis in Diet-Induced Obese Mice. Poster presentation at American Society for Nutrition annual meeting, virtual meeting, June 2021.
17. **Albracht-Schulte, K**, Pahlavani M, Ramalingam L, Moustaid-Moussa N. Eicosapentaenoic Acid Reduces Hepatic Steatosis Independently of UCP1. Poster presentation at International Society for the Study of Fatty Acids and Lipids Congress, virtual meeting, April 2021.
18. Goonapienuqala B, Pahlavani M, Ramalingam L, **Albracht-Schulte K**, Festuccia W, Kalupahana N, Scoggin S, Moustaid-Moussa N. Thermoneutrality Reduces the Beneficial Metabolic Effects of Eicosapentaenoic Acid on White Adipose Tissue in Diet-Induced Obese Mice. Poster presentation at American Society for Nutrition annual meeting, virtual meeting, May 2020.
19. **Albracht-Schulte K**, Wilson S, Pahlavani M, Ramalingam L, Festuccia W, Scoggin S, Moustaid-Moussa N. Eicosapentaenoic Acid Reduces Hepatic Steatosis Independently of UCP1. Poster presentation at Experimental Biology, meeting canceled, April 2020.
20. Johnson P, **Albracht-Schulte K**, Islam T, Moustaid-Moussa N. Beef Proteins, Gut Microbiome and Health: A systematic Review. Poster presentation at Undergraduate Research Conference, TTU, Lubbock, TX, March 2020.
21. Wilson S, Johnson P, **Albracht-Schulte K**, Pahlavani M, Ramalingam L, Festuccia W, Scoggin S, Moustaid-Moussa N. Sex-Dependent Metabolic Effects of Eicosapentaenoic Acid

- in Diet-Induced Obese Mice. Poster presentation at Undergraduate Research Conference, TTU, Lubbock, TX, March 2020.
22. Katasani G, Islam T, **Albracht-Schulte K**, Koboziev I, Moustaid-Moussa N. Effects of Curcumin on Inflammation Induced 3T3 Pre-adipocytes Cell Line. Poster presentation at Undergraduate Research Conference, TTU, Lubbock, TX, March 2020.
 23. **Albracht-Schulte K**, Pahlavani M, Ramalingam L, Moustaid-Moussa N. Eicosapentaenoic Acid Upregulates Oxidation to Reduce Hepatic Steatosis Independently of UCP1. Poster presentation at the Interdisciplinary Nutrition Sciences Symposium, University of North Carolina, Chapel Hill, NC, July 2019.
 24. **Albracht-Schulte K**, Gonzalez S, Jackson A, Wilson S, Ramalingam L, Kalupahana N, Moustaid-Moussa N. Eicosapentaenoic Acid Improves Hepatic Metabolism and Reduces Inflammation. Oral presentation at the Obesity Research Institute annual meeting, **1st place** Postdoc Oral Competition, TTU, Lubbock, TX, May 2019.
 25. Wilson S, Jackson A, Gonzalez S, **Albracht-Schulte K**, Ramalingam L, Kalupahana N, Moustaid-Moussa N. Effects of Omega-3 Polyunsaturated Fatty Acids in Reducing Inflammation and Improving Metabolism in HepG2 Liver Cells. Poster presentation at the Undergraduate Research Conference, TTU, Lubbock, TX, April 2019.
 26. **Albracht-Schulte K**. MicroRNAs as Mediators of Omega-3 Fatty Acids: Effects on Inflammation and Lipid Metabolism. Oral presentation at USDA Project Director's Meeting, Washington, D.C., August 2018.
 27. **Albracht-Schulte K**, Gonzalez S, Jackson A, Ramalingam L, Kalupahana N, Moustaid-Moussa N. Mechanisms Mediating Reversal of Liver Steatosis by Eicosapentaenoic Acid: Studies in High Fat Diet-Induced Obese Mice and in HepG2 Hepatoma Cells. Poster presentation at American Society for Nutrition annual meeting, Boston, MA, June 2018.
 28. **Albracht-Schulte K**, Rosairo S, Ramalingam L, Wijetunge S, Ratnayake RMCJ, Kotakadeniya HMSRB, Dawson JA, Kalupahana NS, Moustaid-Moussa N. Central Adiposity is a Strong Predictor of Non-alcoholic Fatty Liver Disease (NAFLD) in South Asian Women. Poster presentation at the Experimental Biology meeting, San Diego, CA, April 2018 and at the Obesity Research Cluster annual meeting, Lubbock, TX, May 2018.
 29. Jackson A, Gonzalez S, **Albracht-Schulte K**, Ramalingam L, Kalupahana N, Moustaid-Moussa N. Mechanisms Mediating Effects of Eicosapentaenoic Acid in Nonalcoholic Fatty Liver Disease. Poster presentation at the Undergraduate Research Conference, TTU, Lubbock, TX, April 2018.
 30. Gonzalez S, **Albracht-Schulte K**, Ramalingam L, Kalupahana N, Moustaid-Moussa N. Mechanisms Mediating the Effects of Eicosapentaenoic Acid in Hepatic Steatosis in High Fat Fed Mice and in HepG2 Hepatoma Cells. Poster presentation at The National Conferences on Undergraduate Research, Memphis, TN, March 2017 and at the Experimental Biology meeting, Chicago, IL, April 2017.
 31. Kalupahana N, **Albracht-Schulte K**, Ramalingam L, Rosairo S, Wijetunge S, Kotakadeniya HMSRB, Ratnayake RMCJ, Dawson J, Moustaid-Moussa N. Serum Resistin is Associated with Adipocyte Hypertrophy, Inflammation and Metabolic Complications of Obesity in South Asian Women. Poster presentation at 13th International Congress on Obesity, Vancouver, Canada, May 2016.
 32. **Albracht-Schulte K**, Kalupahana N, Ramalingam L, Rosairo S, Wijetunge S, Kotakadeniya HMSRB, Ratnayake RMCJ, Dawson J, Moustaid-Moussa N. Metabolic Changes Underlying Interactions Between Obesity and Non-Alcoholic Fatty Liver Disease in South Asian Adults. Poster presentation at the annual Experimental Biology meeting, San Diego, CA, April 2016.
 33. **Albracht-Schulte K**, Ramalingam L, Kalupahana N, Moustaid-Moussa N, Gunaratne P. Eicosapentaenoic Acid (EPA) Supplementation Regulates Hepatic Carbohydrate and Lipid Metabolism. Poster presentation at the annual Obesity Society meeting, Los Angeles, CA, November 2015.

34. **Albracht-Schulte K**, Ramalingam L, Kalupahana NS, Brocard C, Moustaid-Moussa N. Eicosapentaenoic Acid Supplementation Regulates Hepatic Lipid Metabolism in Diet Induced Obese Mice. Poster presentation at the Obesity Research Cluster annual meeting, Lubbock, TX, May 2015 and at the Annual Graduate Student Research Poster Competition, **3rd place**, TTU Graduate School, Lubbock, TX, April 2015. Oral presentation at the Experimental Biology meeting, Boston, MA, March 2015.
35. **Albracht-Schulte K**, Robert-McComb J, Gonzales J, Fernandez Del Valle M, Hart M. Effects of Emotional Exposure on State Anxiety and Physiological Measures of Stress Reactivity After an Acute Yogafit Session. Poster presentation at the Gender-Specific Medicine & Women's Health Symposium, TTUHSC, Lubbock, TX, October 2014.
36. Robert-McComb J, **Albracht K**. Yoga and Biofeedback for Women with Disordered Eating. Paper presentation at the School of Biomedical Sciences for the Master in Eating Disorder Program, European University of Madrid, Madrid, Spain, February 2014.
37. Robert-McComb J, **Albracht K**, Fernandez Del-Valle M. The Difference between Eastern and Western Yoga. Workshop and educational media presentation on the difference between eastern (Ananda Yoga) and western yoga (Yoga-Fit) for the School of Sport Sciences, European University of Madrid, Madrid, Spain, February 2014.
38. Robert-McComb J, Tai YL, Qian XP, Norman R, Hart M, **Albracht K**. Sex Difference in the Cortisol Response Between Two Different Stress Protocols. Poster presentation at American College of Sports Medicine annual meeting *Medicine and Science in Sports and Exercise*, 46(5) Supplement, S [Abstract] and at the Gender-Specific Medicine & Women's Health Symposium, TTUHSC, Lubbock, TX, November 2013 and at the Obesity Research Cluster annual meeting, Lubbock, TX, May 2014.
39. **Albracht K**. The Anti-carcinogenic Effect of Food and Other Lifestyle Choices. Oral presentation at LCU Scholar's Colloquium, Lubbock, TX, March 2010.

TEACHING EXPERIENCE

Graduate

Assistant Professor, Kinesiology & Sport Management, Texas Tech University

KIN 7000 Research in Kinesiology, fall 2021

KIN 6319 Development of Exercise Physiology Proposals, spring 2022-

Undergraduate

Assistant Professor, Kinesiology & Sport Management, Texas Tech University

KIN 3305 Exercise Physiology, fall 2022-

KIN 3347 Physiological Application of Nutrition to Exercise and Physical Activity, fall 2021-

Adjunct Faculty, Kinesiology & Sport Management, Texas Tech University

KIN 3347 Physiological Application of Nutrition to Exercise and Physical Activity, fall 2020

GPTI, Nutritional Sciences, Texas Tech University

NS 1325 Nutrition, Foods and Healthy Living, fall 2016-spring 2018 and fall 2018

NS 2330 Nutrition for Health, Fitness and Sport (online course), spring 2018

NS 1410 Science of Nutrition, fall 2016-spring 2018

Adjunct Faculty, Exercise and Sport Science, Lubbock Christian University

ESS 1201 Introduction to Kinesiology, fall 2014-spring 2015

ESS 2314 Human Movement, fall 2014-spring 2015

Teaching Assistant, Kinesiology and Sport Management, Texas Tech University

ESS 4368 Applied Exercise Physiology Labs, fall 2012-spring 2014

ACADEMIC SERVICE

Graduate Student Training

Doctoral Students

- 2024 Golbarg Jafarabadi Shabani, NExT Medicine Lab, Kinesiology & Sport Management, TTU
2023 Hushyar Azari, NExT Medicine Lab, Kinesiology & Sport Management, TTU

Doctoral Committee

- 2025- Hazera Binte Sufian, Nutritional Sciences, TTU, *Targeted Inhibition of Methionine Aminopeptidases 2: A Novel Strategy for Anti-Obesity Therapy*
2024- Christine Florez, Energy Balance & Body Composition Lab, Kinesiology & Sport Management, TTU
2023-25 Andrea Sosa, Nutritional Sciences, TTU
2022-24 Madelin Siedler, Energy Balance & Body Composition Lab, Kinesiology & Sport Management, TTU
2021-23 Emily Salas-Groves, Nutritional Sciences, TTU
2020-22 Matthew Stratton, Energy Balance & Body Composition Lab, Kinesiology & Sport Management, TTU
2020-22 Teresa Wang, Nutritional Sciences, TTU

co-mentor (Moustaid-Moussa), NIOR Lab, TTU

- 2019-21 Tariful Islam (Ph.D. Student), NIOR Lab, Nutritional Sciences, TTU

Masters Students

- 2023-25 Casandra Smith, NExT Medicine Lab, Kinesiology & Sport Management, TTU
2023-25 Diana Combs, NExT Medicine Lab, Kinesiology & Sport Management, TTU
2022-23 Salvador Galindo, NExT Medicine Lab, Kinesiology & Sport Management, TTU

MS Thesis Committee

- 2024- Megan George, NExT Medicine Lab, Kinesiology & Sport Management, TTU (Chair)
2024- Eleni Keith, NExT Medicine Lab, Kinesiology & Sport Management, TTU (Chair)
2023-25 Sadique Abdallah, Nutritional Sciences, TTU

Undergraduate Student Training

- 2025- Sathvika Jasti, NExT Medicine Lab, TTU
2025- Hafsa Pathan, NExT Medicine Lab, TTU
2024- Alex Markis, NExT Medicine Lab, TTU
2024-25 Alanna Worley, NExT Medicine Lab, TTU
2023-24 Brenna Estrada, NExT Medicine Lab, TTU
2022- Kaitlin Murphy, Undergraduate Thesis (forthcoming)
2022-24 Rylee Mullen, NExT Medicine Lab, TTU
2022-24 Krista Landeros, NExT Medicine Lab, TTU
2022-24 Megan George, NExT Medicine Lab, TTU
2022-23 Abbey Calabrese, NExT Medicine Lab, TTU

- 2021-21 Sarah Anjum, Undergraduate Thesis: Age-Dependent Effects of Fish Oil on Gut Microbiota and Hepatic Metabolism in Diet-Induced Obese Male Mice (Co-Director), NIOR Lab, TTU
- 2021-23 Annalyn Shudde, NExT Medicine Lab, TTU
- **Second Place, Healthcare Impact**, Undergraduate Research Conference, TTU, Lubbock, TX, spring 2022
- 2021-2020- Caleb Perry, NExT Medicine Lab, TTU
- 2020- Kiara Garza, NExT Medicine Lab, TTU
- **Undergraduate Project Funding** (\$1,000), Transformative Undergraduate Experiences (TrUE), TTU, Lubbock, TX, fall 2021
- 2020- Salvador Galindo, NIOR & NExT Medicine Lab, TTU

Undergraduate Honors Thesis

- 2025-26 Kaitlin Murphy, NExT Medicine Lab, TTU
- 2023-24 Annalyn Shudde, *Effect of Aerobic Exercise Training on Liver Metabolic and Inflammatory Markers in HET3 Mice*, NExT Medicine Lab, TTU
- 2023-24 Rylee Mullen, *Age-Related Changes in Adipose Tissue Histology in Male C3H/HeJ Mice Fed a High-Fat Diet That Developed Hepatic Carcinoma*, NExT Medicine Lab, TTU
- 2021-22 Salvador Galindo, *Gut Microbiota Profile of Subjects with Prediabetes and Obesity* (Co-Director), NExT Medicine Lab, TTU
- **Outstanding Undergraduate Student Researcher**, Center for Transformative Undergraduate Experiences (TrUE), TTU, Lubbock, TX, spring 2022

co-mentor (Moustaid-Moussa), NIOR Lab, TTU

- 2020- Sarah Anjum, NIOR Lab, TTU
- 2020- Kirk Balderas, Undergraduate Scholar, Plains Bridges to Baccalaureate Program, South Plains College and TTU
- 2020-21 Caroline Shipley, Obesity Research Institute/Office of Research & Innovation, TTU
- 2019-21 Geetika Katasani, NIOR Lab, TTU
- 2019-20 Paige Johnson, NIOR Lab, TTU
- 2017-20 Savanna Wilson, NIOR Lab, TTU
- **Undergraduate Scholar Project Funding** (\$1,000), Center for Transformative Undergraduate Experiences (TrUE), TTU, Lubbock, TX, fall 2019
- 2017-18 Abigail Jackson, NIOR Lab, TTU
- **Undergraduate Scholar Project Funding** (\$1,000), Center for Active Learning and Undergraduate Engagement (CALUE), TTU, Lubbock, TX, spring 2018
- 2015-17 Samantha Gonzalez, NIOR Lab, TTU
- **ASN/Maximizing Access to Research Careers (MARC) Travel Award** (\$1,800), Federation of American Societies for Experimental Biology (FASEB)/MARC and American Society for Nutrition (ASN), Experimental Biology Meeting, Chicago, IL, April 2017.
 - **1st place** poster, FASEB MARC American Society for Nutrition's Emerging Leaders Poster Competition, Dietary Bioactive Components Research Interest Section, Experimental Biology Meeting, Chicago, IL, April 2017.
 - Selected for Young Minority Investigator oral presentation competition,

Experimental Biology Meeting, Chicago, IL, April 2017.

PROFESIONAL DEVELOPMENT

- 2021 Member, Women Faculty Writing Group, TTU
- 2021 Attendee, The Advancing Teaching & Learning Conference, TTU
- 2020 Member, Early Career Faculty Proposal Writing Group, TTU

Invited Presentation/Lectures

- 2025 Panelist, Clinical Connections Event, *Exploring the Integration of Diet and Exercise in Health and Disease*, Nutrition Metabolic Health Initiative, TTU, Lubbock, TX
- 2025 TTUHSC-TTU NIH Writing Group, *NIH R15 Funding: An Overview*, Lubbock, TX
- 2023 Senior Seminar, *Exercise & Diet to Decrease Metabolic Disease*, Lubbock Christian University, Lubbock, TX
- 2022 Texas A&M AgriLife Extension Master Wellness Program, *High-Intensity Interval Training: Benefits and Implementation*, Lubbock, TX
- 2021 TTU Office of Research & Innovation New Faculty Novice Writing Group, *Tips for Success*, Lubbock, TX
- 2020 Chronic Disease (TTU NS 6340), *Lifestyle Interventions for the Treatment of Obesity & Diabetes*, Lubbock, TX
- 2020 Research Methods and Grant Writing Course (TTU NS 6310), *Predoctoral Fellowship Funding and Postdoctoral and Early Career Grant Preparation*, Lubbock, TX
- 2019 TTUHSC Preventative Medicine Club, *Eicosapentaenoic Acid Improves Hepatic Metabolism and Reduces Inflammation*, Lubbock, TX
- 2018 Research Methods and Grant Writing Course (TTU NS 6310), *Predoctoral Fellowship Funding and Professional Development*, Lubbock, TX
- 2018 Talkington School for Young Women visit to TTU, *Body Image, Health and Physiology*, Lubbock, TX

University Service

- 2025 Faculty Lead, Exercise is Medicine on Campus, TTU participation in ACSM program
- 2025 Moderator for Faculty Presentations, Institute for One Health Innovation's Annual Meeting, TTU
- 2025 Judge, Poster Competition, Institute for One Health Innovation's Annual Meeting, TTU
- 2025 Judge, Poster Competition, Obesity Research Institute's Annual Meeting, TTU
- 2025- Advisory Board Member, Institute for One Health Innovation, TTU
- 2025 Judge, Undergraduate Research Conference, TTU
- 2025- Advisory Board member, Institute for One Health Innovation
- 2023 Member, Strategic Research Initiative (SRI) Microbiome Research, TTU
- 2023 Member, Institute for One Health Innovation, Metabolic Health, TTU
- 2023 Dean's Representative, Ph.D. Biological Sciences candidate, Investigating the Effect of In Vitro and In Vivo White Adipocyte-Derived Adipocytokine Secretions in Promoting Breast Cancer Metastasis, Noshin Mubutasim, TTU
- 2023 Dean's Representative, MS Nutrition and Dietetics candidate, The relative agreement between changes in Lp(a) in response to replacement of saturated fat with walnuts or avocados measured by the VAP and ELISA methods, Bhavika Dharavat, TTU

2023 Judge, Undergraduate Research Conference, TTU
2022 Judge, Undergraduate Research Conference, TTU
2019-21 Early Career Advisory Board Committee Member/Webinar and Annual Meeting
Planning Committee (19-21), Obesity Research Institute, TTU
2020 Evaluator, Graduate Student Research Support Program, TTU
2020 Judge, Undergraduate Research Conference, TTU
2019 Judge, Graduate Research Poster Competition, TTU
2019 Judge, Undergraduate Research Conference, TTU

Professional Service

Community Outreach

2021-23 Volunteer, Texas A&M AgriLife Extension Master Wellness Volunteer Program,
Lubbock, TX
2019-23 Member, Lubbock Mayor's Fitness Council, Lubbock, TX
2016 Volunteer teacher, Boys and Girls Club, *Nutrition Basics, MyPlate, Health and
Wellness*, Shallowater, TX
2015-16 Instructor, Science: It's a Girl Thing, TTU, *Cardiovascular Physiology*
2012-14 Volunteer, Covenant BodyMind Initiative, TTU

Professional Memberships/ Organizations

2022- Member, American Council for Medicinally Active Plants
2019-25 Advisory Board Committee Member, Obesity Research Institute, TTU
2019-23 Member, Society of Clinical Research Associates, TTUHSC Chapter
2019-23 Member, Women's Interprofessional Network of the American Diabetes
Association
2019- Member, Center for Excellence for Integrative Health, TTUHSC
2018 Institutional Member, National Center for Faculty Development & Diversity, TTU
2018- Member, Graduate Student & Post-Doc Women Mentoring Program, TTU
2014-18 Member, Graduate Nutrition Organization, TTU
2014- Member, American Society for Nutrition
2014-21 Member, American Society for Biochemistry and Molecular Biology
2014-17 Member, The Obesity Society
2013-18 Member, Phi Kappa Phi Honor Society
2012- Member, American College of Sports Medicine
2009-10 President, Alpha Chi Honor Society, LCU