

2020 ANNUAL REPORT



TEXAS TECH UNIVERSITY
College of Human Sciences

Department of Nutritional Sciences™

SUMMARY

STUDENTS

- Undergraduate: 842
- Graduate: 162

DEGREES EARNED

- MS: 35
- PhD: 8

FACULTY MEMBERS

- Total: 30
- New in 2020: 4
- Open Positions: 2

GRANTS

- Extramural Grants Received in 2020: **12** grants for **\$1,771,849.44**
- TTU Grants Received in 2020: **10** grants for **\$22, 050**
- Total active Extramural: **28** grants for **\$6,408,571.93**

FACULTY AWARDS - 9

STUDENT AWARDS - 9

INTELLECTUAL PROPERTY

- Patents Filed: 1

PUBLICATIONS - 80

POSTERS AND PRESENTATIONS - 65

EDITORIALS AND REVIEW ACTIVITIES - 22

INVITED LECTURES AND SYMPOSIA - 16

MEDIA APPEARANCES - 63

OUTREACH AND ENGAGEMENT

- Dietetic Internship
- DPD
- GNO
- NMHI
- NS 4130
- SDA
- US Foods Seminar

DETAILS

STUDENTS

UNDERGRADUATE STUDENTS TOTAL - 842

Nutritional Sciences & Dietetics	170
Nutrition PPHC	241
Health & Wellness	27
Teaching Certification	5
Nutrition Undeclared	10
Nutrition Undecided	28
NS Concentrations	238
NS Minors	123

GRADUATE STUDENTS TOTAL - 162

M.S. - Nutritional Sciences	9
M.S. - Nutrition & Dietetics (excluding interns)	83
Dietetic Internship	41
Ph.D. - Nutritional Sciences	29

DEGREES EARNED

GRADUATED IN 2020: MASTER'S - 35

Brett Arredondo	Sonja Baca	Isra Bashiti
Kayli Bass	Taylor Brizzee	Deanna Brown
Hanna Bruno	Allison Carroll	Stephen Compston
Tessa Comstock	Marjorie Craven	Tiffany Doggett
Erin Elliott	Nicaela Fung	Eduardo Gonzalez
Kacey Haycox	Blair Hayes	Keyra Hernandez
Yasaman Jamshidinaeini	Ryan McElfresh	Gabi Mohamed
Celeste Morin	Shavonne Morrison	Katelyn Munoz
Miah Nelson	Amber Ritz	Ashley Roberts
Annasophia Salazar	Stephanie Spainhour	Victoria Spinazzola
Valerie Summers	Hannah Thomas	Madeline Trapp
Wendy Valencia	Sarah Whitten	

GRADUATED IN 2020: PH.D. - 8

Mehrnaz Abbasi	Rownock Afruza	Yasaman Jamshidinaeini
Md Shahjalal H. Khan	Kalhara Menikdiwela	Upasana Mukherjee
Bong Thi Nguyen	Shasika Udahawatte Gedara	

FACULTY

PROFESSOR

Martin Binks Nikhil Dhurandhar Linda Hoover
Naima Moustaid-Moussa Mary Murimi Wilna Oldewage-Theron

ASSOCIATE PROFESSOR

Shu Wang

ASSISTANT PROFESSOR

Allison Childress John Dawson Shannon Galyean
Vijay Hegde Kristina Petersen Andrew Shin

RESEARCH ASSISTANT PROFESSOR

Iurii Koboziev Latha Ramalingam
Yujiao Zu Arubala Reddy

ASSOCIATE PROFESSOR OF PRACTICE

Shelley Fillipp
Lydia Kloiber

FULL TIME INSTUCTOR

Holli Booe
Allison Kerin

FACULTY

PART TIME/ADJUNCT INSTRUCTORS

Michele Brooks	Traci Cochran	Carol Ireton-Jones
Sarah Hortman	Allison McDaniel	Kelli Paschall
Stephanie Rushing	Karen Simnacher	Gordon Thomas

NEW IN 2020

- Kristina Petersen, Assistant Professor
- Yujiao Zu, Research Assistant Professor
- Sarah Hortman, Adjunct Instructor
- Allison McDaniel, Adjunct Instructor

RETIRED IN 2020

- Linda Hoover, Professor

VACANCIES TO BE FILLED

- 1 open rank basic science faculty position
- 1 open rank community faculty position

STAFF

Jenna Seale	Business Manager
Taylor Reasoner	Coordinator of NS Undergraduate, Graduate, and Online Programs
Shane Scoggin	Program Manager, Lab Safety Officer
Neha Kapoor	Nurse Practitioner, NMHI Clinic Supervisor

EXTRAMURAL GRANTS RECEIVED IN 2020

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Kembra Albracht-Schulte	ORI: Combining fish oil and exercise to improve obesity-associated inflammation	Naima Moustaid-Moussa (Mentor/Sponsor) Collaborators: Rama Chemitiganti Oak Hee Park Chanaka Kahathuduwa	USDA-National Institute of Food and Agriculture	\$165,000.00
Nikhil Dhurandhar	EAGER: Rapid identification of anti-diabetic agents which influence SARS-CoV-2 entry in adipocytes	Vijay Hegde Raj Khare	National Science Foundation	\$160,000.00
Nikhil Dhurandhar	Systematic Literature Review(s) to determine the association of unprocessed meat with obesity and related factors: development of literature search strategy		National Cattlemen's Beef Association	\$13,882.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Nikhil Dhurandhar	Systematic Literature Review(s) to determine the association of unprocessed meat with obesity and related factors: execution of literature search		National Cattlemen's Beef Association	\$68,410.00
Shannon Galyean	Cooking with monosodium glutamate to increase vegetable consumption as assessed by the remote food photography method and resonance raman spectroscopy	Allison Childress Michelle Alcorn John Dawson	American Society for Nutrition	\$10,000.00
Vijay Hedge	A novel approach to reduce excess liver fat and cardiovascular disease risk factors		American Heart Association	\$154,000.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Naima Moustaid-Moussa	Therapeutic potential of DNAJB3/HSP-40 as a novel biomarker for metabolic diseases	Mohammed Dehbi	Hamad bin Khalifa University - Qatar (Qatar National Research Funds)	\$147,514.00
Naima Moustaid-Moussa	ORI: Association Between Obesity, Breast Cancer and the Renin Angiotensin System in Breast Cancer Patients		Susan G. Komen Foundation/ The Obesity Society	\$5,000.00
Kristina Petersen	Improvements in Gut (Microbial) Metabolism with Walnut Consumption		California Walnut Commission	\$153,920
Arubala Reddy	Differential expression of brainstem neurotransmitters in alzheimer's disease and alzheimer's dementia related diseases		National Institutes of Health	\$300,750.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Arubala Reddy	Gender Difference in Human and Primate Serotonin Network		Alzheimer's Association	\$121,234.44
Arubala Reddy	Development of Gender-based Biomarkers and Molecular Mechanisms in Alzheimer's Disease: Focus on Women's Mental Health		Garrison Family Foundation	\$56,784.00
Andrew Shin	Branched-chain Amino Acids as a Novel Biomarker and Treatment for Alzheimer's Disease	Vijay Hedge	National Institutes of Health	\$415,355.00

TTU GRANTS RECEIVED IN 2020

PI	SOURCE	AMOUNT
Vijay Hedge	COHS - Undergraduate Research Funds	\$750
Naima Moustaid-Moussa	COHS - Undergraduate Research Funds	\$2,250
Latha Ramalingam	COHS - Undergraduate Research Funds	\$2,250
Andrew Shin	COHS - Undergraduate Research Funds	\$2,250
Shu Wang	COHS - Undergraduate Research Funds	\$2,250
Naima Moustaid-Moussa	Pi2 Mentor Program	\$1,000
Andrew Shin	Pi2 Mentor Program	\$500
Naima Moustaid-Moussa	TrUE Undergraduate Funding	\$500
Shu Wang	VPR COVID Pilot Study	\$5,300
Latha Ramalingam	VPR Proposal Assistance Program	\$5,000

ACTIVE EXTRAMURAL GRANTS

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Kembra Albracht-Schulte	ORI: Combining fish oil and exercise to improve obesity-associated inflammation	Naima Moustaid-Moussa (Mentor/Sponsor) Collaborators: Rama Chemitiganti Oak Hee Park Chanaka Kahathuduwa	USDA-National Institute of Food and Agriculture	\$165,000.00
Martin Binks	Does increased egg consumption have cognitive and neural benefits in food insecure, at risk adolescents?	Tyler Davis	American Egg Board	\$20,000.00
Nikhil Dhurandhar	EAGER: Rapid identification of anti-diabetic agents which influence SARS-CoV-2 entry in adipocytes	Vijay Hegde Raj Khare	National Science Foundation	\$160,000.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Nikhil Dhurandhar	Systematic Literature Review(s) to determine the association of unprocessed meat with obesity and related factors: development of literature search strategy		National Cattlemen's Beef Association	\$13,882.00
Nikhil Dhurandhar	Systematic Literature Review(s) to determine the association of unprocessed meat with obesity and related factors: execution of literature search		National Cattlemen's Beef Association	\$68,410.00
Nikhil Dhurandhar	To predict weights loss response to Liraglutide (Saxenda®), from fMRI-based Determination of Food Cue Reactivity	Martin Binks Tyler Davis (Psychological Sciences)	NOVO Nordisck Inc.	\$481,320.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Nikhil Dhurandhar	Incentivizing Lifestyle Modification to Reduce Disease Burden	Martin Binks Debra Reed	RGK Foundation	\$15,000.00
Nikhil Dhurandhar	Browning White Adipose Tissue for Diabetes Treatment	Shu Wang	National Institutes of Health	\$435,755.00
Shannon Galyean	Cooking with monosodium glutamate to increase vegetable consumption as assessed by the remote food photography method and resonance raman spectroscopy		American Society for Nutrition	\$10,000.00
Vijay Hegde	A novel approach to reduce excess liver fat and cardiovascular disease risk factors	Nikhil Dhurandhar	American Heart Association	\$154,000.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Naima Moustaid-Moussa	ORI: Association Between Obesity, Breast Cancer and the Renin Angiotensin System in Breast Cancer Patients		RGK Foundation	\$15,000.00
Naima Moustaid-Moussa	Microbiome mediated anti-obesity and anti-inflammatory effects of eicosapentaenoic acid and curcumin		American Heart Association	\$154,000.00
Naima Moustaid-Moussa	Therapeutic potential of DNAJB3/HSP-40 as a novel biomarker for metabolic diseases	Mohammed Dehbi	Hamad bin Khalifa University - Qatar (Qatar National Research Funds)	\$147,514.00
Naima Moustaid-Moussa	Synergistic effects of omega 3 polyunsaturated fatty acids and anthocyanins in inflammation-associated		USDA- National Institute of Food and Agriculture	\$500,000.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Naima Moustaid-Moussa	Anti-Obesity Effects of Omega 3 Fatty Acids in Brown Adipose Tissue	Breanna Harris (Biological Sciences) Latha Ramalingam	National Institutes of Health	\$799,352.00
Naima Moustaid-Moussa	Heat shock proteins in diabetes and obesity		Hamad bin Khalifa University - Qatar	\$68,750.00
Naima Moustaid-Moussa	Impact of a lean beef diet on reducing the risk of developing cancer, diabetes and obesity in mouse models	Lauren Gollahon Mindy Brashears Alejandro Echeverry	Beef Products Inc.	\$1,600,000.00
Mary Murimi	Graduate education at the Nexus of Global Horticulture and Human Nutrition to enhance community resilience and food security	Mindy Brashears, Conrad Lyford	USDA - University of Arkansas	\$75,490.49

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Mary Murimi	Linking Cattle Nutrition to Human Nutrition: A Value Chain Approach to Improving the Production, Handling, and Consumption of Animal Source Foods in Ethiopia		United States Agency for International Development	\$81,900.00
Mandana Pahlavani	Postdoc Fellowship Integrated gene and mircoRNA networks mediating anti-inflammatory effects of omega 3 fatty-acids in diet-induced obesity	Naima Moustaid-Moussa	USDA - Agriculture and Food Research Initiative	\$165,000.00
Kristina Petersen	Improvements in Gut (Microbial) Metabolism with Walnut Consumption		California Walnut Commission	\$153,920.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Arubala Reddy	Differential expression of brainstem neurotransmitters in alzheimer's disease and alzheimer's dementia related diseases		National Institutes of Health	\$300,750.00
Arubala Reddy	Gender Difference in Human and Primate Serotonin Network		Alzheimer's Association	\$121,234.44
Arubala Reddy	Development of Gender-based Biomarkers and Molecular Mechanisms in Alzheimer's Disease: Focus on Women's Mental Health		Garrison Family Foundation	\$56,784.00
Andrew Shin	Branched-chain Amino Acids as a Novel Biomarker and Treatment for Alzheimer's Disease		National Institutes of Health	\$415,355.00

PI	GRANT TITLE	COLLABORATORS	SPONSOR	AMOUNT
Andrew Shin	I-Corps: Novel diagnostic tool and compound repurposing for early detection and alleviation of alzheimer's disease		National Science Foundation	\$50,000.00
Shu Wang	Browning White Adipose Tissue Inhibits atherosclerosis development		American Heart Association	\$154,000.00
Shu Wang	BCA2's modulation of NF-kB and its role in proviral latency		National Institutes of Health	\$14,155.00
Total: \$6,408,571.93				

FACULTY AWARDS

- **Dr. Shannon Galyean**

- Received the Texas Distinguished Scientist Award from the Texas Academy of Nutrition and Dietetics. This award is given to a Texas dietitian who has made outstanding and significant contributions to research in the field of dietetics, nutrition, food science, or related sciences.

- **Dr. Naima Moustaid-Moussa**

- Elected to the American Society for Nutrition Board of Directors as Director-At-Large representing Nutrition Mechanisms.
- Member, Women Full Professors Network (WFPN) Executive Board Member.
- Awarded the 2020 Outstanding Researcher Award from the TTU Office of Research and Innovation.
- Awarded the 2020 Korean Nutrition Society (KNS) Award sponsored by the American Society for Nutrition (ASN). This award was established by KNS and ASN in 2010 to improve understanding and cooperation between the societies in nutritional matters of common interest and concern. The KNS Award is presented each year to an ASN member scientist. The Award promotes excellence in nutrition research conducted by a North American scientist who is an ASN member and engaged with KNS, Korea, or related collaborators or studies. Nominees for this award can include but are not limited to ASN members collaborating with KNS investigators, scientists studying issues relevant to the Korean population, and Korean investigators involved in research.
- Black Women in the Academy Tenured Black Female Faculty Honoree, Texas Tech Office of Institutional Diversity on October 22, 2020.
- 2020 Bernie E. Rushing Award nominee, College of Human Sciences.

- **Holli Booe**
 - Apple Polishing Award, Texas Tech Mortar Board
 - Selected by the College of Human Sciences (COHS) Faculty Council as the 2020-2021 recipient for the COHS Excellence in Teaching Award. This selection considers "Excellence in teaching by tenure-ineligible faculty members, as attested by students, faculty members, and administrators."
- **Lydia Kloiber**
 - College of Human Sciences Length of Service Recognition for 15 years of service on November 5, 2020.
- **Dr. Mary Murimi**
 - Black Women in the Academy Tenured Black Female Faculty Honoree, Texas Tech Office of Institutional Diversity on October 22, 2020.
- **Karen Simnacher**
 - College of Human Sciences Length of Service Recognition for 15 years of service on November 5, 2020.

STUDENT AWARDS

- **Marleigh Brown, Undergraduate Student**
 - Won Outstanding Student in a DPD Program Award from the Texas Academy of Nutrition and Dietetics. Marleigh is currently the Student Dietetic Association (SDA) president and is entering TTU's Ph.D. program in the fall.
- **Grace Hyunjung Lee, M.S.**
 - Awarded the 2020 Graduate Student International Research Award from the Office of the Provost.
 - Selected for the 2020-2021 Teaching, Learning, And Career enHancement (TEACH) Fellowship Program that operates under the auspices of the TTU Graduate School and has grown into an elite, highly regarded program that has become a model for other programs across the country.



- **Tariful Islam, Ph.D. Student**

- Selected as the COHS Graduate Student of the Month (February 2020).
- Awarded the Graduate Student Research Support Award for Spring 2020.
- Awarded the Study Abroad Competitive Scholarship for Fall 2020.
- One of the top six finalists in the 2020 Virtual 3MT Competition.

- **Li-Ling (Penny) Peng, Ph.D. Student**

- Awarded Academy of Nutrition and Dietetics Outstanding Dietetics Student for 2020. This award is given to students in recognition of their emerging leadership and achievements in a nutrition and dietetics education program. The Academy of Nutrition and Dietetics is the world's largest organization of food and nutrition professionals representing more than 100,000 practicing registered dietitian nutritionists (RDNs) and nutrition and dietetics technicians registered (NDTRs) in over 50 countries.

- **Ritchel B. Gannaban, Ph.D. Student**

- Selected as a Helen Hodges Scholar from Helen Hodges Educational Charitable Trust.

INTELLECTUAL PROPERTY

- **Patents Filed**

- Title: SMALL MOLECULE ANALOGS OF THE PROTEIN E4ORF1 IN THE TREATMENT AND PREVENTION OF METABOLIC DISORDERS
 - **Inventor: Dhurandhar NV.**
 - The application number for this filed patent is PCT/US2020/012663 and was filed on January 8, 2020.

PUBLICATIONS

- **Journal Articles**

- Albracht, K., Islam, T., Johnson, P., Moustaid-Moussa, N. (2020). Systematic Review of Beef Protein Effects on Gut Microbiota: Implications for Health. *Advances in nutrition (Bethesda, Md.)*.
- Davis, T., Berthoud, H. R., Binks, M. (2020). Minimum reporting guidelines and the role of causal inference in functional neuroimaging for obesity research. *International Journal of Obesity*, 44, 1633-1635
- Siegrist, M., Hartman, C., Scheele, S. C., Binks, M., Egan, P. Consumer Assessment of 3D Printed Food Shape, Taste, and Fidelity using Chocolate and Marzipan Materials. *3D Printing and Additive Manufacturing*.
- Gonzalez, E., Childress, A., Dawson, J., McCutchin, D. (2020). Prevalence of Eating Disorders and Their Association with a Previously Suffered Concussion Among Student-Athletes at a Power Five Conference University. *Current Developments in Nutrition*, 4(Supplement 2), 1753.
- Jordan, S. L., Albracht, K., Robert-McComb, J. J. (2020). Micronutrient deficiency in athletes and inefficiency of supplementation: Is low energy availability a culprit?. *PharmaNutrition*, 14, 100229.
- Drygiannaki, I., Bejar, M., Reible, D., Dawson, J., Rao, B., Hayman, N. T., Rosen, G. H., Colvin, M. A. (2020). Assessing Biota Accumulation Due to Contamination of Sediments by Storm Water Heavy Metals.. *Environmental toxicology and chemistry*, 39(12), 2475-2484.
- Drygiannaki, I., Rao, B., Dawson, J., Rakowska, M., Reible, D., Hayman, N. T., Rosen, G. H., Colvin, M. A., Chadwick, D. B., Pitt, R., Otto, M., Steets, B., Ervin, J. (2020). Assessing sediment recontamination from metals in stormwater.. *The Science of the total environment*, 737, 139726.
- Moyeda Carabaza, A., Murimi, M., Dawson, J., Carrales Gonzalez, F. (2020). Effects of a Diabetes Education Intervention on Diabetes-Related Factors among Mexican Origin Hispanics. *Health Education Journal*, 79(5), 501-515.

- Saha, S., Dawson, J., Murimi, M., Dodd, S., Oldewage-Theron, W. (2020). Effects of a nutrition education intervention on fruit and vegetable consumption-related dietary behavioural factors among elementary school children. *Health Education Journal*, 11.
- Fowler, L. A., Dennis-Cornelius, L. N., Dawson, J., Barry, R. J., Davis, J. L., Powell, M. L., Yuan, Y., Williams, M. B., Makowsky, R., D'Abramo, L. R., Watts, S. A. (2020). Both Dietary Ratio of n-6 to n-3 Fatty Acids and Total Dietary Lipid Are Positively Associated with Adiposity and Reproductive Health in Zebrafish. *Current developments in nutrition*, 4(4), nzaa034.
- Cancelier, A., Dhurandhar, N., Peddibhotla, S., Atkinson, R., Silva, H., Trevisol, D. (2020). Adenovirus 36 infection and daycare starting age are associated with adiposity in children and adolescents. *Journal of Pediatrics*.
- Afruza, R., Akheruzzaman, M., Dhurandhar, N., Hegde, V. (2020). E4orf1, an Adeno-viral protein, attenuates renal lipid accumulation in high fat fed mice: A novel approach to reduce a key risk factor for chronic kidney disease. *Heliyon*, 6(10), e05261
- Feizy, Z., Peddibhotla, S., Khan, M. S. H., Hegde, V., Wang, S., Dhurandhar, N. (2020). Nanoparticle-mediated in vitro delivery of E4orf1 to preadipocytes is a clinically relevant delivery system to improve glucose uptake. *International journal of obesity*, 44(7), 1607-1616.
- Akheruzzaman, M., Hegde, V., Shin, A., Dhurandhar, N. (2020). Reducing endogenous insulin is linked with protection against hepatic steatosis in mice. *Nutrition & diabetes*, 10(1), 11.
- Shah, H., Khan, M. S. H., Dhurandhar, N., Hegde, V. (2020). The Triumvirate: Why Hypertension, Obesity, and Diabetes are risk factors for adverse effects in patients with COVID-19. *Acta Diabetologica*.

- Thomas, D. M., Sturdivant, R., Dhurandhar, N., Debroy, S., Clark, N. (2020). A Primer on COVID-19 Mathematical Models. *Obesity (Silver Spring, Md.)*, 28(8), 1375-1377.
- Galyean, S., Sawant, D., Shin, A. (2020). Immunometabolism, micronutrients, and bariatric surgery: The use of transcriptomics and microbiota-targeted therapies. *Mediators of Inflammation*.
- Galyean, S., Sawant, D., Shin, A. (2020). Personalized Nutrition for Management of Micronutrient Deficiency-Literature Review in Non-bariatric Populations and Possible Utility in Bariatric Cohort. *Obesity surgery*.
- Goktas, Z., Zu, Y., Abbasi, M., Galyean, S., Wu, D., Fan, Z., Wang, S. (2020). Recent Advances in Nanoencapsulation of Phytochemicals to Combat Obesity and Its Comorbidities. *ACS Publications*, 68(31), 8119--8131.
- Goktas, Z., Zu, Y., Abbasi, M., Galyean, S., Wu, D., Fan, Z., Wang, S. (2020). Recent advances in nano-encapsulation of phytochemicals to combat obesity and its comorbidities. *Journal of agricultural and food chemistry*.
- Galyean, S. (2020). New Treatments for Micronutrient Insufficiency among Bariatric Surgery Patients. *Weight Management Matters; a dietetic practicing group of Academy of Nutrition and Dietetics, Volume 19. (No. 1)*, 16-18.
- Mullins, C., Gannaban, R. B., Khan, M. S. H., Shah, H., Siddik MAB, Hegde, V., Reddy, P. H., Shin, A. (2020). Neural Underpinnings of Obesity: The Role of Oxidative Stress and Inflammation in the Brain. *Antioxidants (Basel, Switzerland)*, 9(10).
- Khan, M. S. H., Hegde, V. (2020). Obesity and Diabetes Mediated Chronic Inflammation: A Potential Biomarker in Alzheimer's Disease.. *Journal of personalized medicine*, 10(2).

- Koboziev, I., Scoggin, S., Gong, X., Mirzaei, P., Zabet Moghaddam, M., Yosofvand, M., Moussa, H., Jones-Hall, Y., Moustaid-Moussa, N. (2020). Effects of Curcumin in a Mouse Model of Very High Fat Diet-Induced Obesity. *BIOMOLECULES*, 10(10).
- Harlan, L., Mena, L. T., Ramalingam, L., Jayarathne, S., Shen, C. L., Moustaid-Moussa, N. (2020). Mechanisms Mediating Anti-Inflammatory Effects of Delta-Tocotrienol and Tart Cherry Anthocyanins in 3T3-L1 Adipocytes. *Nutrients*, 12(11).
- Kalupahana, N. S., Goonapienuwala, B. L., Moustaid-Moussa, N. (2020). Omega-3 Fatty Acids and Adipose Tissue: Inflammation and Browning. *Annual review of nutrition*, 40, 25-49.
- Ramalho, T., Pahlavani, M., Kalupahana, N., Wijayatunga, N., Ramalingam, L., Jancar, S., Moustaid-Moussa, N. (2020). Eicosapentaenoic Acid Regulates Inflammatory Pathways through Modulation of Transcripts and miRNA in Adipose Tissue of Obese Mice. *Biomolecules*, 10(9).
- Ramalingam, L., Sopontammarak, B., Menikdiwela, K. R., Moustaid-Moussa, N. (2020). Endoplasmic Reticulum (ER) Stress in Part Mediates Effects of Angiotensin II in Pancreatic Beta Cells. *Diabetes, metabolic syndrome and obesity: targets and therapy*, 13, 2843-2853.
- Malisch, J. L., Harris, B., Sherrer, S., Lewis, K. A., Shepherd, S., McCarthy, P. C., Spott, J., Karam, E., Moustaid-Moussa, N., Calarco, J. M., Ramalingam, L., Littlefield (Talley), A., Cañas, J., Ardon-Dryer, K., Weiser, D., Bernal, X., Deitloff, J. (2020). Opinion: In the wake of COVID-19, academia needs new solutions to ensure gender equity. *Proceedings of the National Academy of Sciences*, 117(27), 15378-15381.
- Yosofvand, M., Litanage, S., Kalupahana, N. S., Scoggin, s., Moustaid-Moussa, N., Moussa, H. (2020). "AdipoGauge" Software for Analysis of Biological Microscopic Images. *Adipocyte Journal*, 9(1), 14.

- Claycombe-Larson, K. J., Alvine, T., Wu, D., Kalupahana, N. S., Moustaid-Moussa, N., Roemmich, J. N. (2020). Nutrients and Immunometabolism: Role of Macrophage NLRP3. *The Journal of nutrition*, 150(7), 1693-1704.
- Fahmida, R., Ramalingam, L., Menikdiwela, K. R., Hernandez, A., Moussa, H., Gollahon, L., Rakhshanda, R. L., Moustaid-Moussa, N. (2020). Renin Angiotensin System Inhibition Attenuates Adipocyte-Breast Cancer Cell Interactions. *Experimental Cell Research*, 394(1), 12.
- Menikdiwela, K. R., Ramalingam, L., Abbas, M. M., Bensmail, H., Scoggin, S., Kalupahana, N. S., Palat, A., Gunaratne, P., Moustaid-Moussa, N. (2020). Role of microRNA 690 in Mediating Angiotensin II Effects on Inflammation and Endoplasmic Reticulum Stress. *Cells*, 9(6).
- Jayarathne, S., Ramalingam, L., Edwards, H., Vanapalli, S., Moustaid-Moussa, N. (2020). Tart Cherry Increases Lifespan in *Caenorhabditis elegans* by Altering Metabolic Signaling Pathways. *Nutrients*, 12(5).
- Pahlavani, M., Ramalingam, L., Miller, E. K., Davis, H., Scoggin, S., Moustaid-Moussa, N. (2020). Discordant Dose-Dependent Metabolic Effects of Eicosapentanoic Acid in Diet-Induced Obese Mice. *Nutrients*, 12(5).
- Chung, E., Elmassry, M., Kottapalli, P., Kottapalli, K., Kaur, G., Dufour, J. M., Wright, K., Ramalingam, L., Moustaid-Moussa, N., Wang, R., Hamood, A. N., Shen, C. L. (2020). Metabolic benefits of annatto-extracted tocotrienol on glucose homeostasis, inflammation, and gut microbiome. *Nutrition research (New York, N.Y.)*, 77, 97-107
- Kumar, N., Willis, A. A., Satbhai, Ramalingam, L., Schmitt, C., Moustaid-Moussa, N., Crago, J. P. (2020). Developmental toxicity in embryo-larval zebrafish (*Danio rerio*) exposed to strobilurin fungicides (azoxystrobin and pyraclostrobin). *Chemosphere*, 241, 124980.

- Menikdiwela, K. R., Ramalingam, L., Rasha, F. A., Wang, S., Dufour, J. M., Kalupahana, N. S., Sunahara KKS, Martins, J. O., Moustaid-Moussa, N. (2020). Autophagy in metabolic syndrome: breaking the wheel by targeting the renin-angiotensin system. *Cell death & disease*, 11(2), 87.
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- **Books and Chapters**

- Hegde, V., Dhurandhar, N. (2020). From Adipogenic Viruses to Antidiabetic Drug: A Translational Journey. In Joel Faintuch, Salomao Faintuch (Ed.), *Obesity and Diabetes. Scientific Advances and Best Practice*. (pp. 97-106). Springer.
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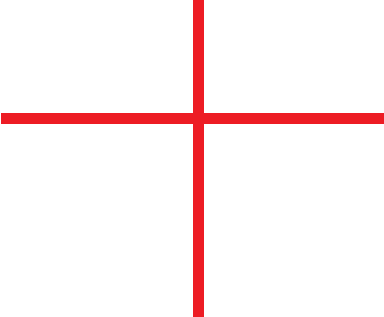
POSTERS AND PRESENTATIONS

- **Posters**

- Abbasi, M., Wang, S. Direct Delivery of Metformin to Subcutaneous White Adipose Tissue and Brown Adipose Tissue for Combating Obesity. Nutrition 2020, American Society for Nutrition (ASN). Seattle, WA.
- Abbasi, M., Wang, S. In Vivo Percutaneous Penetration of Dye into IgWAT and IBAT Using Dissolving Microneedle and Iontophoresis. Nutrition 2020, American Society for Nutrition (ASN). Seattle, WA.
- Githinji, P., Moyeda-Carabaza, AF., Bala, F. (2020). The relationship between meals consumed away from home on weight status and diet quality. 19th Annual Graduate Student Research Poster Competition. March 2020; Lubbock, Tx.

- Gonzalez, E. A., Childress, A., Dawson, J., & McCutchin, D. Prevalence of Eating Disorders and Their Association with a Previously Suffered Concussion Among Student-Athletes at a Power Five Conference University. 36th Annual Sports, Cardiovascular, and Wellness Nutrition (SCAN) Symposium, Revolutionizing Performance Nutrition. 2020 Mar 21-23; Boston, MA.
- Gonzalez, E. A., Childress, A., Dawson, J., & McCutchin, D. Prevalence of Eating Disorders and Their Association with a Previously Suffered Concussion Among Student-Athletes at a Power Five Conference University. Nutrition 2020, American Society for Nutrition (ASN); Seattle WA.
- Moyeda-Carabaza, AF. (2020). Effects of a Community-based Nutrition Education Intervention on Diabetes-Related Behaviors and Dietary Intakes Among Mexican-Origin Hispanics. TTU 5th Annual Hispanic/Latinx Research & Creativity Symposium. April 2020; Lubbock, Tx (online).
- Moyeda-Carabaza, AF., Dawson, JA., Murimi, M. Difference in Underlying Causes of Infant Malnutrition Between a Pastoral and an Agro-pastoral Community in Ethiopia. Nutrition 2020, American Society for Nutrition (ASN). Seattle, WA.
- Moyeda-Carabaza, AF, Githinji, P, Nguyen, B, Murimi, M. The Relationship Between the Frequency of Meals Consumed Away-From-Home on the Total Diet Quality and Weight Status. Nutrition 2020, American Society for Nutrition (ASN). Seattle, WA.
- Nguyen, B., Moyeda-Carabaza, AF., Li, X, Bala, F., Githinji, P., Murimi, M. Determinants of Intentions to Adopt Healthy Dietary Behaviors Among University Students: A Theory-Based Approach. Nutrition 2020, American Society for Nutrition (ASN). Seattle, WA.
- Nguyen, B., Murimi, M. Effectiveness of a cultural- and theory-based nutrition intervention on increasing dietary calcium intake among Vietnamese women in Hanoi, Vietnam. Nutrition 2020, American Society for Nutrition (ASN). Seattle, WA.

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- Peddibhotla, S., Hegde, V., Dhurandhar, N. V. (2020). Dose frequency of the E4orf1 protein as a potential anti-diabetic drug. ObesityWeek 2020. (Online).
- Feizy Z., Peddibhotla S., Wang S., Hegde V., Dhurandhar N. V. (2020). E4orf1 nanoliposome improves glucose uptake in-vitro and reduces insulin response in-vivo. ObesityWeek 2020. (Online).
- Moyo, Gugulethu (Presenter & Author), Oldewage-Theron, Wilna (Author Only), FNCE 2020, "Measuring perceived barriers and enablers of mothers of children 9-23 months feeding them at least three cooked staple-containing meals each day in Mwenezi and Chiredzi districts, Zimbabwe," Academy of Nutrition and Dietetics, Virtual. (July 2020).
- Jamshidinaeini, Yasaman (Presenter & Author), Oldewage-Theron, Wilna (Author Only), Society of Nutrition Education and Behavior (SNEB) Annual Conference, "Comparative outcome evaluation of 3 delivery models for a diabetes prevention education program for older adults," SNEB, Virtual. (July 23, 2020).
- Jamshidinaeini, Yasaman (Presenter & Author), Oldewage-Theron, Wilna (Author Only), American Society of Nutrition 2020, "Comparative effectiveness of three different delivery models for a community-based diabetes prevention and management education program in older adults," American Society of Nutrition, Seattle, WA. (June 2, 2020).
- Moyo, Gugulethu (Presenter & Author), Oldewage-Theron, Wilna (Author Only), American Society of Nutrition virtual conference, "Barriers and facilitators of exclusive breastfeeding: Findings from a Barrier Analysis Conducted in Mwenezi and Chiredzi Districts.," American Society of Nutrition. (June 2, 2020).

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- Rivera, Jennifer N (Presenter & Author), Basu, Tanisha (Author Only), Benavides, Marqui L (Author Only), Thomas-Jackson, Shera (Author Only), Oldewage-Theron, Wilna (Author Only), TX AND, "Breastfeeding practices among South African women: A pilot study," Texas Academy of Nutrition and Dietetics, Georgetown, TX. (April 2, 2020).

- **Oral Presentations**

- Binks, Martin (Presenter & Author), Embracing Multidisciplinary Care – Medical and Surgical Care Under One Roof course - Overcoming Obesity 2020, "Medical Therapy for Weight Regain: Technology to support weight loss and maintenance," Obesity Medicine Association/ASMBS, Virtual. (October 8, 2020).
- Binks, Martin (Presenter & Author), Texas Association for Bariatric Surgery (TABS) Annual Meeting, "Bariatrics and Online Support Groups & Psychology Evaluations," TABS, Grapevine TX. (February 8, 2020).
- Binks, Martin (Panelist), Texas Association for Bariatric Surgery (TABS) annual meeting, "Breakfast Roundtable Symposium: Difficult Cases / Revision of Bariatric Surgery," TABS, Grapevine TX. (February 8, 2020).
- Binks, Martin (Presenter & Author), Texas Association for Bariatric Surgery (TABS);, "Certified Bariatric Nurse Review Course (Instructor): Psychological Factors Related to Bariatric Surgery," TABS, Grapevine TX. (February 7, 2020).
- Eduardo Gonzalez (Presenter & Author), Childress, Allison (Co-Chair), American Society for Nutrition, "Prevalence of Eating Disorders and Their Association with a Previously Suffered Concussion among Student-Athletes at a Power Five Conference University." (June 7, 2020).
- Oldewage-Theron, Wilna (Panelist), Childress, Allison (Panelist), Faculty Development Event: Study Abroad Faculty Panel, "Study Abroad South Africa," COHS, Human Sciences Cottage. (March 6, 2020).

- Moyeda Carabaza, Ana (Presenter & Author), Dawson, John (Author Only), Murimi, Mary, Nutrition Live Online 2020, "Differences in underlying Causes of infant malnutrition between a pastoral and an agro-pastoral community in Ethiopia," American Society for Nutrition, Online. (June 2020).
- Dhurandhar, Nikhil (Presenter & Author), "Managing Obesity Requires Understanding Obesity," University of Texas Health Sciences Center at El Paso, El Paso, Texas. (December 2020).
- Dhurandhar, Nikhil (Presenter & Author), College of Life Sciences Seminar, "We need obesity management. Not just weight loss.", Brigham Young University, Utah. (November 2020).
- Peddibhotla, Swetha (Author Only), Hegde, Vijay (Presenter & Author), Dhurandhar, Nikhil (Author Only), Obesity Week, "Dose frequency of the E4orf1 protein as a potential anti-diabetic drug," The Obesity Society, Online. (November 2020).
- Feizy, Zahra (Presenter & Author), Peddibhotla, Swetha (Author Only), Wang, Shu (Author Only), Hegde, Vijay (Author Only), Dhurandhar, Nikhil (Author Only), Obesity Week, "E4orf1 nanoliposome improves glucose uptake in vitro and reduces insulin response in vivo," The Obesity Society, Online. (November 2020).
- Akheruzzaman, Md. (Author Only), Patkar, Presheet (Author Only), Dhurandhar, Nikhil (Author Only), Hegde, Vijay (Presenter & Author), Obesity Week, "E4orf1 protein upregulates genes involved in mitochondrial integrity and cellular aging in mice," The Obesity Society, Online. (November 2020).
- Dhurandhar, Nikhil (Presenter & Author), Biomed Seminar Series, "Ad36: A translational Journey from an Obesogenic Virus to an Anti-diabetic Agent," Texas Tech University Health Sciences Center, Lubbock, TX. (September 2020).

- Afruza, Rownock (Presenter & Author), Akheruzzaman, Md (Author Only), Dhurandhar, Nikhil (Author Only), Hegde, Vijay (Author Only), Experimental Biology 2020 Meeting, "Role of E4orf1 in attenuation of renal fat accumulation and injury in mice exposed to high fat diet," Experimental Biology, Online. (April 2020).
- Brown, Marleigh (Presenter & Author), Shah, Harsh (Author Only), Dhurandhar, Nikhil (Author Only), Hegde, Vijay (Author Only), Undergraduate Research Conference, "Role of glucose and insulin on mitochondrial health in mouse hippocampal cells," Texas Tech University, Online. (April 2020).
- Dhurandhar, Nikhil, "How to Communicate with Media." (March 2020).
- Dhurandhar, Nikhil, "Principles of a presentation," Texas Tech University. (March 12, 2020).
- Dhurandhar, Nikhil (Presenter & Author), HEALTH: A Call to Action conference, "Taking ACTION: Overcoming Barriers to Obesity Care," Health Research Institute, University of Houston., Houston, TX. (January 2020).
- Kerin, Allison (Presenter Only), Dietetic Internship Preparation Workshop, "Texas Tech Dietetic Internship," Texas A&M, Virtual. (October 3, 2020).
- Moustaid-Moussa, Naima, TTUHSC Grad School Biomed Sci. Seminar, TTUHSC, Lubbock, TX. (November 2020).
- Katasani, Geetika (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "Anti-Inflammatory Effects on Curcumin in 3T3-L1 adipocytes," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Johnson, Paige (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "Beef Proteins, Gut Microbiome and Health: A Systematic Review," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).

- Mounce, P. Logan, Maldonado, Kaylee Alers, Harris, Breanna, Yavari, Mahsa ., Ramalingam, Latha, Moustaid-Moussa, Naima, 12th Annual Texas Tech University, Undergraduate Research Conference, "Does eicosapentaenoic acid play a protective role on cognition in a mouse model of Alzheimer's disease?," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Petry, Hannah (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "Effects of Tart Cherry on Lifespan of Alzheimer's C. elegans," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Davis, Hanna (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "Eicosapentaenoic Acid confers dose-dependent metabolic benefits, independent of weight loss, in Diet-Induced Obese Mice," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Biltz, Caroline ., Yavari, Mahsa ., Chavira, Angela ., Ramalingam, Latha, Harris, Breanna, Scoggin, Shane ., Moustaid-Moussa, Naima, 12th Annual Texas Tech University, Undergraduate Research Conference, "Metabolic Effects of Eicosapentaenoic Acid in the APP^{swePS1dE9} Alzheimer's Mouse Model.," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Chavira, Angela ., Biltz, Caroline ., Yavari, Mahsa ., Ramalingam, Latha, Harris, Breanna, Moustaid-Moussa, Naima, 12th Annual Texas Tech University, Undergraduate Research Conference, "Protective Effects of Eicosapentaenoic Acid on Pain Tolerance and Heat Threshold in the APP^{swePS1dE9} Alzheimer's Mouse Model," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).

- Gandara, Hiram (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "Role of microRNA 195-5p in mediating effects of angiotensin II on adipocyte autophagy," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Harlan, Lexie (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "The Mechanisms Mediating the Anti-Inflammatory Effects of Delta-Tocotrienol and Tart Cherry Anthocyanins in 3T3-L1 Adipocytes," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Mabry, Brennan (Presenter & Author), Moustaid-Moussa, Naima (Other), 12th Annual Texas Tech University, Undergraduate Research Conference, "The Metabolic Effects of Vitamin D and Fish Oil on Obesity," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Miller, Emily (Presenter & Author), Moustaid-Moussa, Naima (Author Only), 12th Annual Texas Tech University, Undergraduate Research Conference, "Uncoupling Protein 1-Independent Effects of Eicosapentaenoic Acid on Brown Fat and Energy Homeostasis in Diet-Induced Obese Female Mice," Center for Transformative Undergraduate Experiences, Lubbock. (March 2020).
- Yavari, Mahsa, Ramalingam, Latha, Harris, Breanna, Scoggin, Shane, Chavira, Angela, Biltz, Caroline, Mounce, P Logan, Alers-Maldonado, Kaylee, Moustaid-Moussa, Naima, American Society for Nutrition, Annual Meeting, "Metabolic Effects of Eicosapentaenoic Acid in the APPswePS1dE9 Alzheimer's Mouse Model.," American Society for Nutrition, Seattle, WA - Cancelled due to COVID-19. (February 2020).
- Murimi, Mary (Presenter & Author), NYU Nutrition Colloquium, "Nutrition education interventions and food insecurity," NYU, Online. (October 2020).

- Sumner, Carol A. (Moderator), Booker, Danielle Gant (Panelist), Maina, Faith (Panelist), Higgins, Raegan (Panelist), Murimi, Mary, Lavender-Bratcher, Debra (Panelist), The Black Women in the Academy Panel Discussion & Recognition, "The Black Women in the Academy Panel," TTU Division of Diversity, Equity & Inclusion, Online. (October 2020).
- Katz, David L. (Moderator), Murimi, Mary (Panelist), Williams, Kim (Panelist), Bittman, Mark (Panelist), Food Trust Webinar, "How do social, racial, and economic disparities impact diet and health?," DietID, Online. (July 2020).
- Nguyen, Bong (Presenter & Author), Moyeda Carabaza, Ana (Author Only), Li, Xu (Author Only), Bala, Faith (Author Only), Githinji, Phrashiah (Author Only), Murimi, Mary (Author Only), Nutrition Live Online 2020, "Determinants of intentions to adopt healthy dietary behaviors among university students: a theory-based approach," American Society for Nutrition, Online. (June 2020).
- Nguyen, Bong (Presenter & Author), Murimi, Mary (Author Only), Nutrition Live Online 2020, "Effectiveness of a cultural and theory-based nutrition intervention on increasing dietary calcium intake among Vietnamese women in Hanoi, Vietnam," American Society for Nutrition, Online. (June 2020).
- Moyeda Carabaza, Ana (Presenter & Author), Githinji, Phrashiah (Author Only), Nguyen, Bong (Author Only), Murimi, Mary (Author Only), Nutrition Live Online 2020, "The relationship between the frequency of meals consumed away-from-home on the total diet quality and weight status," American Society for Nutrition, Online. (June 2020).
- Murimi, Mary, SPARK meeting, "Child Feeding Practices," Texas Tech Accounting Services, Lubbock. (February 2020).

- Oldewage-Theron, Wilna (Presenter & Author), Soy360 : AgroProcessing in sub-Saharan Africa, "Food product development from a nutritionist perspective," The USAID Feed the Future Soybean Innovation Lab for Value Chain Research (Soybean Innovation Lab), in partnership with the American Oil Chemists' Society (AOCS), Makerere University, The International Institute for Tropical Agriculture (IITA), The Institute for Food Technologists (IFT), and Uganda's National Agriculture Research Organization (NARO),. Online. (December 11, 2020).
- Chalwe, Joseph (Presenter & Author), Mukherjee, Upasana (Author Only), Grobler, Christa (Author Only), Mbambara, S (Author Only), Oldewage-Theron, Wilna (Author Only), Zambian National Health Research Authority, Quarterly Research/Scientific Meeting (NHRA 2020), "Association between hypertension, obesity and dietary intake in postmenopausal women from rural Zambian communities," Zambian National Health Research Authority, Virtual, Zambia. (August 26, 2020).
- Petersen, Kristina, American Oil Chemists Society Annual Meeting, "Canola Oil and Cardiovascular Risk: An Update on Recent Research," American Oil Chemists Society, Virtual. (July 2020).
- Reddy, Arubala (Presenter & Author), AAIC2020, "2.Molecular profiling of serotonergic neurons from non-human primate embryonic stem cell R366.1Poster ID: 47367," Alzheimer's Association, Virtual. (July 2020).
- Reddy, Arubala, AAIC2020July, "3.Gender dimorphism in serotonin dopamine and norepinephrine neurons of Isodendritic core in Postmortem human and Nonhuman primates control subjects," Alzheimer's Association, Virtual. (July 2020).
- Reddy, Arubala, NMHI_ ground breaking, "Isodendritic core dysfunction in Alzheimer's disease and related disorders: The gender component" Lubbock. (January 2020).

- 46. Siddik, Abu Bakkar (Presenter & Author), Shin, Andrew (Author Only), ObesityWeek, "BCAAs not only predict Alzheimer's disease, but also induce features of neuronal dysfunction," The Obesity Society, Online conference. (November 2020).
- 47. Mattern, Marie (Presenter & Author), Shin, Andrew (Author Only), ObesityWeek, "Dissecting mechanisms for improved BCAA metabolism following RYGB surgery in diet-induced obese mice," The Obesity Society, Online conference. (November 2020).

EDITORIAL AND REVIEW ACTIVITIES

- **Dr. Martin Binks**

- Editor, Journal Editor, International Journal of Obesity, Yes, appointed. (December 2020 - Present) Responsible for multimedia scientific communications to promote scientific content published by the journal
- Editorial Review Board Member, Obesity Science & Practice, Yes, appointed. (October 2014 - Present)
- Editorial Review Board Member, International Journal of Obesity. (November 2011 - Present)
- Editor, Journal Editor, Progress in Preventive Medicine, Yes, appointed. (May 2018 - April 2020) Editor in Chief

- **Dr. John Dawson**

- Editorial Review Board Member, International Journal of Obesity, Yes, appointed, 5 hours spent per year. (August 6, 2019 - Present) Member of editorial board specifically as one of a few dedicated statistical reviewers
- Editorial Review Board Member, Journal of Nutrition Education and Behavior, Yes, appointed, 5 hours spent per year. (July 7, 2017 - Present) Member of Board of Editors

- **Dr. Nik Dhurandhar**

- Editor, Journal Editor, Nutrition and Diabetes, 2 hours spent per year. (October 2017 - 2020) Editor-In-Chief. Responsible for academic operations.

- **Dr. Naima Moustaid-Moussa**

- Editorial Review Board Member, Nature Scientific Reports Journal. (2019 - Present) Review submitted articles in my field
- Editorial Review Board Member, Frontiers in Physiology-Lipids and Fatty Acids. (2011 - Present)
- Editorial Review Board Member, J Metabolic Syndrome. (2011 - Present)
- Editorial Review Board Member, J Nutritional biochemistry. (2011 - Present)
- Editor, Guest, Journal of Nutritional Biochemistry. (2019 - 2020) Editor for peer reviewed papers submitted to a special JNB issue on polyphenols, obesity and cardiometabolic health
- Editor, Guest, Journal of Nutritional biochemistry. (August 2019 - July 2020) Guest Editor for special issue on polyphenols, obesity, and cardiometabolic health

- **Dr. Wilna Oldewage-Theron**

- Editorial Review Board Member, Journal of Consumer Sciences, Yes, elected. (May 3, 2016 - Present) The Journal for Family Ecology and Consumer Sciences (JFECS) is an official publication of the South African Association of Family Ecology and Consumer Sciences (SAAF ECS) with the following objectives: • To provide a medium for reporting scientific research and knowledge pertaining to family ecology and consumer sciences • To stimulate research and knowledge pertaining to family ecology and consumer sciences through publications of a high scientific standard and in doing so to promote these fields of study • To benefit the family and the community by means of publications on family ecology, consumer science and related disciplines.

- Research and review articles in the field of Family Ecology and Consumer Sciences are published. The focus and content of family ecology and the consumer sciences in South Africa were published in a document called Focus and content of home economics (Journal of Dietetics and Home Economics, 25(1):53-58). Articles in the following fields will therefore be published: Foods and nutrition, Clothing, Housing, the functioning and development of the individual and the family throughout the life cycle, management pertaining to personal, social and material resources in small and big households and in the community, consumer behaviour & professional practice. Other websites related to this journal: <http://www.saafecs.co.za/>The journal is currently accredited with the Department of Higher Education and Training in South Africa.
- **Dr. Latha Ramalingam**
 - Editorial Review Board Member, Journal of Nutritional Biochemistry, Yes, appointed. (September 2019 - Present)
 - Editorial Review Board Member, International Journal of Diabetes, Yes, appointed. (September 2016 - Present)
 - Editorial Review Board Member, Obesity and Nutritional Disorders, Yes, appointed. (September 2016 - Present)
- **Dr. Arubala Reddy**
 - Editor, Journal Editor, Frontiers in Cell Biology and Biochemistry. (2015 - Present)
- **Dr. Andy Shin**
 - Editorial Review Board Member, Nutrition & Diabetes. (April 2019 - Present)
 - Editorial Review Board Member, Diabetes Journal - openventio, Yes, appointed, 1 hours spent per year. (May 2016 - Present) I'm involved in editorial decision-making including reviewing manuscripts.
- **Dr. Shu Wang**
 - Editorial Review Board Member, Preventive Nutrition and Food Science, Yes, appointed, 20 hours spent per year. (2016 - Present)
 - Editorial Review Board Member, The Journal of Nutritional Biochemistry, Yes, appointed, 20 hours spent per year. (2013 - Present)



IMPROVE and ENHANCE

the human condition

INVITED LECTURES AND SYMPOSIA

- **Dr. Martin Binks**
 - Invited speaker at the Texas Association for Bariatric Surgery meeting in Grapevine, Texas on February 7 and 8. Dr. Binks spoke on Psychological Factors Related to Bariatric Surgery, Difficult Cases/Revision of Bariatric Surgery, and Bariatrics and Online Support Groups & Psychology Evaluations.
- **Dr. Nik Dhurandhar**
 - HEALTH: A Call to Action Conference, University of Houston HEALTH Research Institute. "Taking ACTION: Overcoming Barriers to Obesity Care." January 31, 2020.
 - Panelist, Expert Panel. Speed Mentoring Session by the Early Career Nutrition (ECN) Interest Group of the American Society for Nutrition (ASN). June 2020.
 - "Ad36: A Translational Journey from an Obesogenic Virus to an Anti-Diabetic Agent." Biomed Seminar Series, TTUHSC. September 25, 2020.
 - "We need obesity management. Not just weight loss." College of Life Sciences Seminar. Brigham Young University (BYU) Public Health, Utah. November 12, 2020.

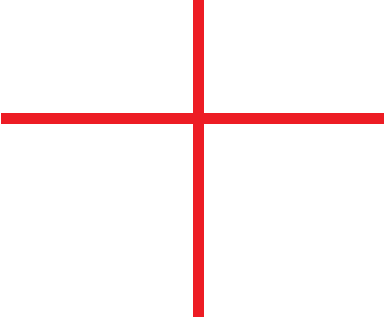


- **Dr. Naima Moustaid-Moussa**

- Invited by the Korean Academy for Science and Technology as a speaker and participant in the 20th Frontier Scientists Workshop at the University of Hawaii in November 2019. The goal of the conference is to develop collaborations in the area of bioactive compounds for health and disease between US and Korean scientists.
- "Mechanisms Linking the Adipocyte Renin-Angiotensin System to Metabolic Inflammatory Diseases." Invited seminar at the Graduate School for Biomedical Sciences. November 13, 2020.
- Organized two Obesity Research Institute (ORI) webinars and gave overview presentations at both:
 - ORI Webinar, July 2020: At the Intersection of two pandemics: Obesity and COVID-19
 - ORI Webinar, November 2020: Current Topics in Cancer Research

- **Dr. Mary Murimi**

- Murimi, M. "Nutrition care plan for dietetics in US." Oral presentation at the Personalized Approach for Clinical Nutrition and Dietetics: Practice and Capacity Building Conference at Vietnam National Institute of Nutrition. Hanoi, Vietnam. November 2019.
- Murimi, M. "Strengths & weaknesses on the current dietetic curriculum in training competent dietitians for Vietnam." Oral presentation at Personalized Approach for Clinical Nutrition and Dietetics: Practice and Capacity Building at Vietnam National Institute of Nutrition. Can Tho City, Vietnam. November 2019.

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- Murimi, M & Moyeda-Carabaza AF. Nutrition Education Training on Effective Low Literacy Teaching Strategies. Four-day training provided to nutrition educators involved in the nutrition objectives of the project "Linking cattle nutrition to human nutrition: a value chain approach to improve the production, handling, and consumption of animal source foods in Ethiopia" at Hawassa, University. Awassa, Ethiopia. January 2020.
 - Katz D.L., Bittman M., Murimi M., Williams K. "How Do Social, Racial, and Economic Disparities Impact Diet and Health?" Webinar at Food Truths Webinar – Diet ID. July 2020.
 - Black Women in the Academy Panelist. Texas Tech Office of Institutional Diversity. October 22, 2020.
 - **Dr. Wilna Oldewage-Theron**
 - "Macro and micronutrients." TTU HSC Tropical Medicine Med students. January 29, 2020.
 - "Global Food Insecurity." TTU HSC Tropical Med students. January 30, 2020.
 - **Dr. Arubala Reddy**
 - "Depression, Diabetes, and Dementia." Lubbock Public Health Initiative. October 29, 2020.
 - **Dr. Shu Wang**
 - Invited by the TTUHSC Department of Internal Medicine to give a seminar entitled "Applying Nanotechnology in Nutritional Studies for Combating Obesity and Atherosclerosis" during the Alzheimer's Disease Research Seminar on March 10, 2020.

IN THE MEDIA

STUDENTS

- **Dr. Kembra Albracht-Schulte**
 - *Texas Tech Today* on August 14, 2020, entitled "Postdoctoral Researcher Earns Coveted USDA Fellowship."
- **Marleigh Brown**
 - College of Human Sciences (COHS) blog on May 19, 2020 entitled "Texas Tech Faculty, Students Awarded Distinguished Texas Academy of Nutrition and Dietetics Association Awards."
- **Brennan Mabry**
 - COHS blog on April 29, 2020, entitled "College of Human Sciences Student Brennan Mabry Selected for Student Academic Leadership Award."
- **Jannin Macias, MS, RD**
 - COHS blog on May 19, 2020, entitled "Texas Tech Faculty, Students Awarded Distinguished Texas Academy of Nutrition and Dietetics Association Awards."
- **Kalhara Menikdiwela, Ph.D. Candidate**
 - Nutrition.org on February 18, 2020, entitled "ASN Gerber Foundation Predoctoral Fellowship 2019 Recipient, Kalhara Menikdiwela – Interview."
- **Harsh Shah, Ph.D. Student**
 - Human Sciences Student Profile on September 4, 2020, entitled "Student Testimonial: Research Opportunities for Nutritional Sciences Students."

LOCAL MEDIA

- **Dr. Martin Binks**

- KAMC/KLBK TV Lubbock on February 17, 2020, entitled "Dr. Martin Binks shares tips on how random acts of kindness can be helpful to you and others."
- KAMC/KLBK TV Lubbock on May 13, 2020, entitled "It's Wellness Wednesday with Dr. Martin Binks on self image."
- KAMC/KLBK TV Lubbock on August 19, 2020, entitled "Dr. Binks says to make sure you do not miss your medical appointments."
- KAMC/KLBK TV Lubbock on August 26, 2020, entitled "Easy ways to keep active to improve your health and well-being."
- KAMC/KLBK TV Lubbock on October 7, 2020, entitled "Stressed out? You are not alone, Dr. Binks is here to help!"
- KAMC/KLBK TV Lubbock on October 12, 2020, entitled "Having trouble sleeping? Dr. Binks has some tips for you."
- KAMC/KLBK TV Lubbock on October 19, 2020, entitled "Check out all the things the Weight Management Clinic has to offer."
- Daily Toreador on November 9, 2020, entitled "Proper sleep routines require preparation, consistency."

- **Dr. Allison Childress**

- KAMC/KLBK TV Lubbock on March 4, 2020, entitled "Here's how to determine which milk is best for you."
- KAMC/KLBK TV Lubbock on March 27, 2020, entitled "TNF - Allison Childress offers tips on meal planning and portion control."
- COHS Blog on March 30, 2020, entitled "Keeping Your Nutrition a Priority During Chaotic Times."
- *Daily Toreador* on April 10, 2020, entitled "Nutritionists emphasize eating healthy during pandemic."
- COHS Blog on April 16, 2020, entitled "Online Master's Degree in Dietetics Offers Future Dietitians Sports Nutrition Concentration."
- *Daily Toreador* on November 9, 2020, entitled "Proper sleep routines require preparation, consistency."



- **Dr. Nik Dhurandhar**

- *Texas Tech Today* on June 4, 2020, entitled "Researchers Examining Roles of Obesity, Diabetes in COVID-19 Infection."
- *EverythingLubbock.com* on June 6, 2020, entitled "TTU researchers examining roles of obesity, diabetes in COVID-19 infection."

- **Dr. Shannon Galyean**

- *Daily Toreador* on April 10, 2020, entitled "Nutritionists emphasize eating healthy during a pandemic."
- COHS blog on May 19, 2020, entitled "Texas Tech Faculty, Students Awarded Distinguished Texas Academy of Nutrition and Dietetics Association Awards."

- **Dr. Vijay Hegde**

- *Texas Tech Today* on June 4, 2020, entitled "Researchers Examining Roles of Obesity, Diabetes in COVID-19 Infection."
- *EverythingLubbock.com* on June 6, 2020, entitled "TTU researchers examining roles of obesity, diabetes in COVID-19 infection."
- *Texas Tech Today* on September 4, 2020, entitled "Nutrition Researchers Receive NIH Funding for Alzheimer's Work."

- **Dr. Naima Moustaid-Moussa**

- *Texas Tech Today* on February 5, 2020, entitled "Nutrition Researcher Found Benefits of Fish Oil and Tart Cherry for Obesity."
- *Texas Tech Today* on March 30, 2020, entitled "Faculty Share Advice, Photos of Transition from In-Class to Online Teaching."
- *InsideHigherEd.com* on June 25, 2020, entitled "Gender, Race, COVID-19 and the Case Against Tenure-Clock Stoppages."
- *Phys.org* on July 6, 2020, entitled "COVID-19 Shines Spotlight on Gender Inequity in Academia."
- *Texas Tech Today* on July 6, 2020, entitled "COVID-19 Shines Spotlight on Gender Inequity in Academia."

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- *Texas Tech Today* on August 19, 2020, entitled "Obesity Research Institute's Founding Director Honored by American Society for Nutrition."
 - *EverythingLubbock.com* on August 22, 2020, entitled "TTU Obesity Research Institute's founding director honored by American Society for Nutrition."
 - *Texas Tech Today* on October 21, 2020, entitled "Black Female Faculty Members Recognized for Contributions to Academia."
 - **Dr. Mary Murimi**
 - *Texas Tech Today* on February 3, 2020, entitled "Researcher Passionate About Nutrition Education for Low-Income Groups."
 - *Texas Tech Today* on October 21, 2020, entitled "Black Female Faculty Members Recognized for Contributions to Academia."
 - **Dr. Kristina Petersen**
 - College of Human Sciences News October 29, 2020, entitled "New Faculty Spotlight: Kristina Petersen, Nutritional Sciences."
 - **Dr. Arubala Reddy**
 - College of Human Sciences News October 29, 2020, entitled "New Faculty Spotlight: Arubala P. Reddy, Nutritional Sciences."
 - **Dr. Latha Ramalingam**
 - *Texas Tech Today* on July 6, 2020, entitled "COVID-19 Shines Spotlight on Gender Inequity in Academia."
 - **Dr. Andrew Shin**
 - *Texas Tech Today* on March 9, 2020, entitled "Nutrition Research Finds Novel Target for Alzheimer's Diagnosis, Treatment."
 - *Texas Tech Today* on September 4, 2020, entitled "Nutrition Researchers Receive NIH Funding for Alzheimer's Work."

NATIONAL MEDIA

- **Dr. Allison Childress**

- *InStyle.com* on January 22, 2020 entitled "What Is Jackfruit Anyway?"
- Cultures of Gender and Age (COGA) Member Spotlight
- *COGA.eatrightpro.org* entitled "Is Your Mentorship Actually Working? Here's How to Tell."
- *WeightWatchers.com* on October 6, 2019, entitled "Intermittent fasting: What is it, and is it safe?"
- *WebMD.com* on March 4, 2020, entitled "Eating on the Go with Diabetes."
- *Parade.com* on August 20, 2020, entitled "Here's What Nutritionists Think of the Keto-Friendly Bell-Pepper-Sandwich Trend That's Taking Over TikTok."
- *MSN.com* on September 24, 2020, entitled "Vitamin A toxicity is rare, but taking supplements increases your change of developing it."

- **Dr. John Dawson**

- *The New York Times* on January 20, 2020 entitled "Childhood Obesity Is a Major Problem. Research Isn't Helping."

- **Dr. Nik Dhurandhar**

- *KNX In Depth* on December 11, 2019.
- *The New York Times* on January 20, 2020 entitled "Childhood Obesity Is a Major Problem. Research Isn't Helping."
- *MensXP.com* on February 8, 2020 entitled "6 Actors Who Beefed Up Real Hard for Tough-Guy Roles and Here's How They Did It."
- *PoultryWorld.net* on April 30, 2020 entitled "Researching and sharing nutritional value of eggs."

- **Dr. Naima Moustaid-Moussa**

- *InsideHigherEd.com* on June 25, 2020, entitled "Gender, Race, COVID-19 and the Case Against Tenure-Clock Stoppages."
- *Phys.org* on July 6, 2020, entitled "COVID-19 shines spotlight on gender inequity in academia."



NMHI IN THE MEDIA

- KAMC/KLBK TV Lubbock on December 11, 2019, entitled "Get your weight loss answers from Texas Tech's NMHI."
- Texas Tech Today on January 13, 2020, entitled "Texas Tech to Officially Open Nutrition & Metabolic Health Initiative's New Home."
- KAMC/KLBK TV Lubbock on January 15, 2020 entitled "The Weight Management Clinic hosts open house and ribbon cutting."
- Daily Toreador on January 16, 2020, entitled "Tech community celebrates new Nutrition and Metabolic Health Initiative facility."
- Texas Tech Today on January 16, 2020, entitled "Texas Tech Hosts Ribbon-Cutting for Nutrition & Metabolic Health Initiative's New Home."
- LubbockOnline.com on January 17, 2020, entitled "Texas Tech unveils new home for Nutrition & Metabolic Health Initiative."

OUTREACH AND ENGAGEMENT

DIETETIC INTERNSHIP

The Nutritional Sciences Dietetic Internship is now reaching 4 cities in Texas: Lubbock, Amarillo, Midland/Odessa, and San Angelo. Of our rotating interns, 60% were hired for employment at one of the sites in which they rotated, spreading the TTU alumni about West Texas!

- Lubbock internship is partnering with 21 different rotation sites and a total of 45 preceptors.
- Amarillo internship is partnering with 15 different rotation sites and a total of 40 preceptors.
- Midland/Odessa internship is partnering with 13 different rotation sites and a total of 29 preceptors.
- The San Angelo internship is hosting 4 interns. There, NS is partnering with 10 different rotation sites and a total of 18 preceptors

Over the past five years, 96% of our interns have successfully passed the RDN exam within one year following their first attempt.

While all contracts remained in place in 2020, several sites did not allow interns to return due to COVID. 2021 will be reassessed as to allowing interns back into the facilities.

DIDACTIC PROGRAM IN DIETETICS (DPD)

Nutritional Sciences and Dietetics majors apply to our DPD as they enter their junior year and take coursework specifically directed towards entering a dietetic internship to eventually become a registered dietitian.

In 2020:

- We accepted 26 new students into the DPD.

To be competitive for internships, students must successfully complete our rigorous degree plan, achieve a competitive GPA, and gain paid work, volunteer, and leadership experience.

In 2020:

- We had 24 students apply for internships.
 - All 24 students matched to a dietetic internship for a 100% match rate, compared to the national match rate of 65%.
 - These 24 students matched to 15 locations across the country including:

- | | |
|--|--|
| • Advent Health - Orlando | • Sam Houston State University - Huntsville |
| • Aramark - Fort Worth | • Texas Tech University - Lubbock |
| • Baylor Medical Center - Dallas | • Texas Tech University - Midland |
| • Baylor University - Waco | • Texas Tech University - San Angelo |
| • Incarnate Word University - San Antonio | • Texas Woman's University - Houston |
| • Keith and Associates Dietetic Internship - Tulsa | • University of Maryland - College Park |
| • Medical City Dietetic Internship - Dallas | • University of Texas Medical Branch - Galveston |
| • Morrison Healthcare - Austin | |

Once students complete their dietetic internship, the next step before gaining their credentials of Registered Dietitian Nutritionist is to take and pass the national credentialing Registration Examination for Dietitians.

In 2020:

- We had 28 students take the Registration Examination for Dietitians.
- Of those attempting the exam, 25 passed within one year for a one-year pass rate of 89.29% compared to the national average of 89.03%.

GRADUATE NUTRITION ORGANIZATION (GNO)

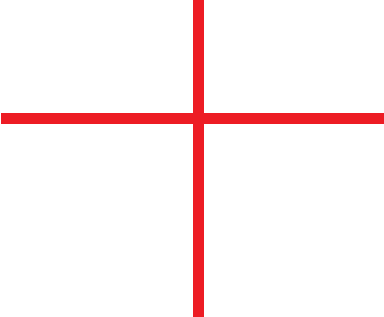
- **Networking and Career Development Conference (NCDC)**
 - GNO planned to host their first annual networking and career development conference in Spring 2020 to provide graduate students networking opportunities and research presentation feedback. Due to COVID-19, this conference has been delayed.
- **Human Sciences Day**
 - GNO participated in Human Sciences Day in Fall 2020. Human Sciences Day provides students the opportunity to get involved with student organizations and programs within the college.
- **South Plains Food Bank Volunteer Events**
 - GNO participated in South Plains Food Bank Johnny Appleseed Harvest Festival on September 26th, 2020.
- **GNO Fundraising Events**
 - GNO volunteered at the Heart of Lubbock Community Garden on October 10th, 2020 to help plant and rebuild the Lubbock community garden.
- **Keva Juice Fundraising Event**
 - GNO partnered with a local smoothie and juice spot for the first time to help fundraise for their organization and promote healthy eating!
- **Undergraduate Mentoring with Student Dietetic Association (SDA)**
 - GNO collaborated with the undergraduate student dietetic association to help mentor undergraduates interested in pursuing a graduate degree in nutritional sciences.



NUTRITION AND METABOLIC HEALTH INITIATIVE (NMHI)

- **Recent/Upcoming Projects**

- We are very excited to be in the process of joining Lubbock Community Network. We are joining a network created by the City of Lubbock Health Department and its community partners, in partnership with Signify Health, a leading provider of tech-enabled products and services that will help us to improve referrals and communication of health needs of those most in need in the Lubbock Community. Basically, a coordinated care referral network. Healthcare and social service providers will be able to quickly and effectively collaborate around the needs of individuals, connecting them to community programs that address the many social determinants of health, such as childcare, financial stability, youth engagement, and access to healthy food and transportation.
- We are currently working on partnering with University Medical Center to provide nutrition and lifestyle health services to various clinics.
- We have partnered with Human Resources at TTU to provide educational health offerings to TTU employees; we also offer employee/student/alumni discounts on our services. Additionally, we are soon to be offering payroll deduction to all full-time TTU employees

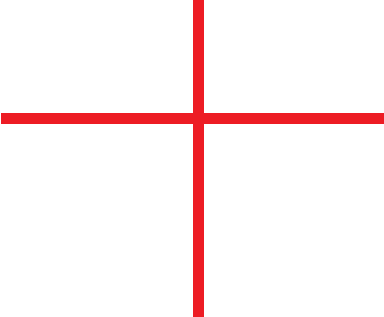


- **COVID-19 Response**

- Prior to closure at TTU we were actively engaged in conversations related to the continued safety of our staff, faculty, students, patients, and research subjects. We developed comprehensive COVID safety protocols and freely shared those to assist a number of entities at the university. During a brief period where human subjects face to face research was closed at TTU we developed Telemedicine protocols for the ongoing care of our clinical and research participants. We were among the first on the TTU campus to safely return to in-person research and clinical activity (June 5, 2020). Our ongoing infection control procedures were already very high as a healthcare facility, but added pre-visit screening, onsite parking lot screening for appointments, and enhanced social distancing and cleaning protocols have allowed us to operate safely and continue to serve our patients. It has also allowed students to continue their training at NMHI throughout the last year and exposed them to what we hope is the most uniquely challenging public health experience of their careers. We have never been so proud of a group of early-career professionals.

- **Student Involvement/Opportunities**

- Students are involved in every aspect of the day-to-day operations (research, patient care, education, community outreach) at NMHI. We have an “all hands on deck” philosophy. They learn every aspect of what it takes to work in a vibrant clinical research facility. We would not exist without their dedicated VOLUNTEER training experience. Every day I get positive feedback about these early-career professionals working under the supervision of myself, Dr. Childress, Galyean, Petersen, and Dhurandhar. We typically have about 10 students who volunteer for the clinical aspects of the program (to see patients with faculty and perform assessments under faculty supervision). In addition, many more students experience NMHI through faculty research and educational training opportunities as part of classes they take.

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- Anyone who wants to learn more and receive experience and training in what we do here is welcome. We have students from Nutritional Sciences, Pre-Med, Biology, Music, Psychology (to name a few). Our students have gone on to Medical School, Dietetics Programs, Physician Assistant programs, Academic careers, etc.

NS 4130: FIELDWORK IN NUTRITION

Tech Fun Days project, defined as the service-learning course “Field Work in Food and Nutrition”, was designed based on a collaboration between the NS department and YWCA Y-Care afterschool program in Lubbock. In this community outreach, NS students were responsible for implementing the Tech Fun Days project, providing them with an opportunity to apply their knowledge and develop practical skills in leading a community-based nutrition education for elementary school children. Tech students, as the project implementers, taught and modeled positive body image, healthy eating, and healthy physical activity behaviors to more than 100 elementary school children attending the afterschool program. NS students were also actively involved in modifying the curriculum to adhere to COVID-19 policies put in place by the Y-Care afterschool program, thereby enhancing their skills in adapting curricula to various circumstances.

The campus-based version of this service-learning course during summer 2020 focused on equipping students with the skills required to develop a nutrition curriculum for a target group of their choice, guided by the Tech Fun Days format. This class walks students through the process of developing a community-based nutrition education lesson and its implementation via alternative formats such as video. Here Tech students are both lesson developers and implementers, gaining valuable skills in alternative methods of implementing nutrition fieldwork.



STUDENT DIETETIC ASSOCIATION (SDA)

The Student Dietetic Association at Texas Tech University had the following outreach and engagement activities through the 2020 year such as:

- Ronald McDonald House
- Lubbock Impact
- South Plains Food Bank, taught nutrition classes, helped sort/organize food boxes

Normally, they are able to participate in more activities. Due to COVID-19, many outreach opportunities were not allowed. The hope is to resume these engagement activities in 2021.

US FOODS SEMINAR

In 2020, the US Foods - Food and Nutrition Seminar was 100% planned, speakers were confirmed, the seminar flyers were printed and prior approval for continuing education was complete. Due to COVID-19, the seminar was postponed and ultimately cancelled. All of the speakers have agreed to speak at the next seminar.