



**Center of Excellence for Integrative Health
(CEIH)
Comprehensive Review
2018-2023**

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Summary

- The Center of Excellence for Integrative Health (CEIH) was approved by Dean Steve Berk in January 2018, and the requirement for a 2018 center annual report was waived.
- Dr. Shen, Founding Director of the CEIH, presented “Establishing the Center of Excellence for Integrative Health at Texas Tech University Health Sciences Center” as her Executive Leadership in Academic Medicine (ELAM) project on May 4, 2019, in Philadelphia, PA.
- Since 2018, over 45 faculty members had joined the Center.
- A website for the Center was established (<https://www.ttuhsu.edu/centers-institutes/integrated-health-research/default.aspx>). On the website, we feature member profiles, research interests, and contact information. Since 2019, nine members have left the Center due to their departure from TTUHSC or TTU, and twelve new members have joined.
- The following table lists a summary of Center Members’ scholarly activities (2019-2023), in terms of peer-referred publications, oral presentations, poster presentations, funded grant awards, and grant amount. This information was provided by Center members who submitted their reports for each specific year. Appendices include 2019-2023 Center Member Scholarly Activities. Please note, the grant \$ may be shown in repeated years by the same members or joint projects.

Year	Publication	Oral	Poster	Grant no	Grant \$
2023	228	160	253	106	125,707,665
2022	254	121	74	70	34,384,733
2021	232	107	45	40	31,460,254
2020	192	53	87	90	56,608,340
2019	138	35	70	61	23,465,622
Total	1044	476	529	367	271,626,614

- In the past 5 years, we have hosted the following **CEIH Integrative Medicine Symposiums**:
 - Hosted 2nd Annual Integrative Medicine Symposium on April 12, 2019. Two keynote speakers (Dr. Margaret A. Chesney, PhD, title: Combating the opioid crisis: integrative approaches for pain management; Dr. Bruce A. Watkins, title: Natural products and chronic pain). Printed Center banner for use in promotion of symposium.
 - Hosted 3rd Annual Integrative Medicine Symposium on October 23, 2020, via Webinar Format and virtual poster. *Keynote speaker*: Dr. Victor Sierpina, Professor of Family Medicine and W.D. and Laura Nell Nicholson Family Professorship in Integrative Medicine, University of Texas Medical Branch. *Presenation topic*: A Mindful Life: Methods and Manifestation). 240+ participants joined this meeting. There were 12 posters presented by our Center members.
 - Hosted 4th Annual Integrative Medicine Symposium on October 21, 2022, in-person and virtual poster. Two *Keynote speakers of CEIH*: (1) Dr. Barrie Tan, PhD. CEO of American River Nutrition, LLC, Hadley, MA. Topic: A Unique Plant-based Vitamin E Tackles Chronic Conditions and (2) Dr. Deborah Clegg, Vice President of Research, Texas Tech University Health Sciences Center at El Paso, El Paso, TX. Topic: *Dose the Food we Eat and Its Processing Impact Our Hormonal Balance and Cancer Risk?* ~ 250 participants joined this meeting.

- In the past 5 years, we hosted one or two **Center Steering Committee Meetings**, except for 2023 with no meeting, to discuss future plan for the Center. Current Steering Committee Members include Dr. Volker Neugebauer, Dr. Michael Blanton, Dr. Betsy Jones, Dr. Naima Moustaid-Moussa, and Dr. Yan Zhang.
- In the past 5 years, we hosted the following **Center Annual Membership Meetings** to promote member interaction and collaboration as the following:
 - February 23, 2018. In-person. 16 members attended.
 - May 16, 2019. Hybrid. 29 members attended in person and 1 via Techlink.
 - September 20, 2020. A total of 17 members participated via zoom. 7 members presented their research highlights and interest areas.
 - December 4, 2021. A total of 12 members presented their research highlights and interest areas. We shared the meeting minutes along with the zoom recording with members who had time conflicts and noted their feedback.
 - October 7, 2022. Hybrid in-person and via zoom. A total of 9 CEIH members (7 in-person and 5 via zoom) presented their research highlights and interest areas at the meeting. This annual membership meeting was recorded. We shared the meeting minutes and the Zoom recording with members who had time conflicts and noted their feedback. At the same meeting, we invited TTU Honors College Undergraduate Research Scholars (URS) to attend in-person. The two parties (CEIH members and URS) communicated directly for future mentor-mentee opportunities. There were 33 total attendees (28 in-person and 5 via zoom) at the meeting.
- **The CEIH provided research funding, opportunity, and collaboration**
 - 2020: Announced two \$5,000 seed grant RFA for members to submit grant applications. Center members in TTUHSC and TTU faculty eligible to serve as a Principal Investigator.
- **The CEIH promoted medical education and student research opportunity**
 - 2019: Sponsored two medical students to participate in 2019 Medical Student Summer Research Program
 - 2019, 2020: The CEIH worked with the Department of Medical Education to organize summer rotation activities for the Family Medicine Accelerated Track (FMAT), specifically applying integrative health to chronic disease management. Approximately 25 medical students, including FMAT, are involved in research activities related to integrative health.
 - 2021: The CEIH worked with the Department of Medical Education to organize summer rotation activities for the Family Medicine Accelerated Track (FMAT), specifically applying integrative health to chronic disease management. Approximately 15 medical students were involved in research activities related to integrative health.
 - 2023: CEIH member led P3 Honor Project of SOM class of 2027. Project title: Perceptions and Usage of Alternative Medicine among Medical and Pharmacy Students: Implications for Future Clinical Practice.
 - Center members were active in teaching medical students, graduate students, and undergraduate students from TTUHSC and TTU.
- **The CEIH promoted Center visibility nationally**
 - TTUHSC is an active member of the Academic Consortium for Integrative Medicine and Health. <https://imconsortium.org/>.
 - Presented “Establishing the Center of Excellence for Integrative Health at Texas Tech University Health Sciences Center” as her Executive Leadership in Academic Medicine (ELAM) project on May 4, 2019, in Philadelphia, PA.

- Presented Center progress/update at the upcoming virtual 2021 Integrative Medicine & Health Symposium, Hosted by the Academic Consortium, April 11-13, 2021.
- Presented our Center progress/update at the upcoming 2022 Integrative Medicine & Health Symposium, Hosted by the Academic Consortium, Phoenix, AZ, May 23-26, 2022.

Vision/Mission

VISION

- To improve the health of individuals through integrative health research discoveries and high-quality education.

MISSION

- To support the strategic objectives and academic mission of School of Medicine and TTUHSC in enhancing research and research-related education.
- To foster and facilitate synergistic, interdisciplinary, trans-disciplinary, and inter-professional collaboration among researchers/colleagues committed to integrative health research and to assist the professional development of new researchers.
- To promote thoughtful and compassionate healthcare in the broad field of integrative health through innovative and rigorous research at basic, translational, clinical, and population levels, and assist and support researchers in conducting cutting edge research that will grow the empirical evidence base for integrative approaches to health.
- To promote research-associated educational opportunities for medical students.

Strategic Plan

The key goals for the Center are:

1. Establish a critical mass of outstanding faculty with an emphasis on those doing integrative health research through basic, translational, clinical, community, and health service research.
2. Promote and establish collaborations in basic, translational, clinical, community, and health service research in integrative health among TTUHSC campuses, TTU, and other institutions.
3. Enable a significant increase in peer-reviewed integrative health research funding (i.e. foundations, federal funding, industries) to TTUHSC and other TTU Systems.
4. Participate in consortium member meeting of the Academic Consortium for Integrative Medicine and Health to report Center activities, increase research collaboration, and improve medical education in the area of integrative health.

Membership

MEMBER PROFILE (2/2024)			
Center of Excellence for Integrative Health			
Name/department /school	Contact Information	Research Interest/Expertise	Research Keywords
Albracht-Schulte, Kembra PhD/Kinesiology & Sport Management/TTU	Kembra.Albracht@ttu.edu (806) 834-5786	Lifestyle medicine, including diet and exercise interventions, and role of the microbiome, obesity and related metabolic diseases	

Al-Rahawan, Mohamad MD, MPH/Pediatric Hematology Oncology TTUHSC	m.al@ttuhsc.edu Office: (806) 775-8600	Pediatric Cancer treatment and prevention. Vitamin deficiency and supplementation in survivors of childhood cancer.	
Bennett-Brown, Maggie PhD, Communication Studies, College of Media & Communication	Margaret.bennett@ttu.edu	Sexual health communication, patient-provider communication, sexual health behavior interventions, women's healthcare	Sexual health communication, women's healthcare
Blanton, Michael P. PhD/ Pharmacology & Neuroscience/ SOM-Lubbock, TTUHSC	michael.blanton@ttuhsc.edu Office: (806) 743-3496 Cell: (806) 319-1778	Structure/function of neuronal nicotinic acetylcholine receptors; development of smoking cessation agents and PAMs (positive allosteric modulators) for the treatment of Alzheimer's, Parkinsonism, and other disorders of the nervous system. http://legacy.ttuhsc.edu/medicine/pharmacology/faculty/blanton.aspx	
Brismée, Jean-Michel PT, ScD/ Rehabilitation Sciences-SHP- Lubbock, TTUHSC	Jm.brismee@ttuhsc.edu Office: (806)743-3243 Cell: (806) 789-0387	Clinical trials, intervertebral disc hydration/height, musculoskeletal health including, osteoarthritis, osteoporosis, diagnostics, manipulative therapy, mind-body therapies including yoga, meditation, Tai Chi.	
Chyu, Ming-Chien PhD/Mechanical Engineering/TTU	m.chyu@ttu.edu Office: (806) 834-8982	Non-pharmacological approaches in musculoskeletal issues-healthcare engineering approach- biomechanics.	
Coman, Ioana A PhD/Public Relations/College of Media and Communication	ioana.coman@ttu.edu Cell: 865-607-5406 Office: 806.834.0936	Health communication & promotion (vaccines, outbreaks/pandemics, health issues) in risk and crisis contexts, different levels (local, national, international) and different platforms (media, social media, visuals, etc). Stigma, advocacy and health communication/promotion.	Health promotion Social Media Vaccines Outbreaks Mis/disinformation Stigma Advocacy
Dennis, Jeff PhD/Public Health	Jeff.Dennis@ttuhsc.edu (806) 743-6812	Social epidemiology, including racial and ethnic disparities in health outcomes, immigrant health, and disparities in birth outcomes. Complementary and alternative medicine, mental health diversion in correctional facilities, sleep disturbance, and life satisfaction among medical students	population health and demography
Dufour, Jannette PhD/Cell Biology and Biochemistry/SO M-Lubbock, TTUHSC	jannette.dufour@ttuhsc.edu Office: (806) 743-2616	Use of immunoprotective Sertoli cells in transplantation. Specifically, mechanisms of Sertoli cell immune privilege, transplantation of genetically modified, immune privileged Sertoli cells and co-transplantation of Sertoli cells and pancreatic islets.	Sertoli cells, Immune privilege, Transplantation, Diabetes, Islets, Gene therapy, Cell Therapy

Enakpene, Christopher A MD / Maternal-Fetal Medicine / Obstetrics & Gynecology / SOM, TTUHSC Midland/Permian Basin	christopher.a.enakpene@ttuhsc.edu Cell: 347 217 5127	Diabetes in pregnancy and obesity. On going clinical trial on randomization of early diabetes screening in obese pregnant women. Impact of gestational diabetes and impaired glucose tolerance on short and long-term maternal and child health. Multimodal approach in the prevention of preterm birth.	Clinicaltrial.gov. REDSOAP Study: NCT03116009. Clinicaltrial.gov ARABIN Study NCT03052270
Figueroa, Arturo MD, PhD/ Kinesiology and Sport Management/TTU	arturo.figueroa@ttu.edu Office: (806) 834-5587	Arterial function and skeletal muscle health (mass and strength) in middle-aged and older adults, especially in women. Aging, hypertension, obesity, type 2 diabetes, sarcopenia/dynapenia, and cardiovascular diseases. Resistance exercise training and dietary supplements with vascular effects.	Arterial stiffness, aortic hemodynamics, wave reflection, blood flow, endothelial function, L-citrulline supplementation, resistance exercise, muscle metaboreflex
Garner, Christine PhD, RD/InfantRisk Center, Pediatrics/SOM TTUHSC Amarillo	christine.garner@ttuhsc.edu Office: (806) 414-9587	Maternal and child nutrition, Breastfeeding, Lactation, Obesity, Food insecurity, Maternal mental health, Mixed methods research, Clinical research	Nutrition, breastfeeding, food insecurity
Galyean, Shannon PhD, RDN, LD Nutrition/TTU	shannon.galyean@ttu.edu Office: 806-834-2286	Obesity, type 2 diabetes, dyslipidemia, insulin resistance, vitamin & mineral supplement	Nutrition, clinical trial, chronic disease, bariatric surgery
Jitkajornwanich, Kulsawasd (Bo) PhD/Professional Communication/College of Media and Communication/TTU	kulsawasd.jitkajornwanich@ttu.edu Office: (806) 834 2010 Cell: 682 414 9164	Health informatics, Natural Language Processing (NLP), health communication, Big Data Analytics, early detection and diagnosis through data-driven approaches, Medical AI, GIS	Big data, medical AI, NLP, health informatics
Jones, Betsy PhD/Medical Education/TTUHS C	Betsy.jones@ttuhsc.edu	Medical education	
Jung, Kwanghee PhD/Educational Psychology/TTU	kwanghee.jung@ttu.edu Office: (806) 834-0023	Multivariate Statistics and Functional Data Analysis, Psychological Measurement and Testing Theory, Data Analytics and Big Data Analytics, Bio-medical Data and Patient-Reported Outcomes Research, Human Brain and Mental Health Research, Statistical Software Development, Virtual Reality/Augmented Reality Development	

Kahathuduwa, Chanaka MBBS, MPhil, PhD/Laboratory Sciences & Primary Care- SHP/Psychiatry- SOM-Lubbock, TTUHSC	chanaka.kahathuduwa@ttuhsc.edu ; chanaka.kahathuduwa@ttu.edu	Neurophysiological mechanisms underlying human cognitive and neurophysiological mechanisms. Obesity and metabolic derangements-related human ingestive behavior. Developmental disorders such as ADHD and autism spectrum disorders.	
Kaur, Gurvinder PhD/Medical Education/SOM- Lubbock, TTUHSC	gurvinder.kaur@ttuhsc.edu	1) Diabetes (both type 1 and type 2) 2) Transplantation immunology (allo and xenotransplantation, rodents) 3) Islet isolation (from rodents and pigs) 4) Immune cell (T cells, macrophages and dendritic cells) analysis by immunostaining and flow cytometry 5) Amyloid formation in beta cells	
Kee, Kerk PhD/Professional Communication/TTU	Kerk.Kee@ttu.edu	Technological innovations (e.g., collaborative cyberinfrastructure, social media). Behavioral innovations (e.g., health prevention, water conservation)	Corporate & organizational, health, science, social media
Lawrence, J Josh PhD/Pharmacology & Neuroscience/SOM- Lubbock, TTUHSC	John.lawrence@ttuhsc.edu	nutritional deficiencies, excitation/inhibition balance in disease states, hippocampal neuromodulation, aging, Alzheimer's disease, epilepsy, autism	Autism Epilepsy Late onset of AZ
Lee, Jaehoon (Jason) PhD/ Educational Psychology/TTU	Jaehoon.lee@ttu.edu Office: (806) 834-5907	high dimensional data analysis, experimental design and sample size calculation, as well as multiple testing adjustments	
Lee, Sue Ann S. PhD, CCC- SLP/Speech- Language- Hearing Sciences, SHP, TTUHSC	sueann.lee@ttuhsc.edu Office (806) 743-9051	Speech and language in children with hearing loss and cleft palate, Bilingual speech and language development, treatment effectiveness using ultrasound and telepractice	Speech-language impairment, bilingualism, speech-language intervention, speech-language instrumentation, ultrasound, telepractice
Levitt, Danielle PhD, CSCS*D PhD/Kinesiology & Sport Management/TTU	Danielle.Levitt@ttu.edu Office: 806-834-1830	Substance misuse, glycemic control, skeletal muscle regeneration, bioenergetics, inter-organ crosstalk, exercise and nutraceutical interventions to improve musculoskeletal and metabolic health	
Luk, Hui Ying PhD/Kinesiology & Sport Management/TTU	Huiying.luk@ttu.edu Office: 806-834-0827	Immunoendocrine response on skeletal muscle regeneration and hypertrophy	Musculoskeletal recovery and growth/strength and conditioning/inflammation/hormones/muscle mass

Lyford, Conrad PhD Agricultural & Applied Economics, TTU	Conrad.lyford@ttu.edu Office: (806) 834-6881	Behavioral change towards healthy behavior and disease prevention. Community/school interventions for obesity prevention. Cost-benefit analysis. Developing country food security and health systems	
Narasimhan, Madhusudhanan PhD/Pharmacology & Neuroscience/SO M-Lubbock, TTUHSC	madhu.narasimhan@ttuhs.c.edu Office: (806) 743-4079	Molecular mechanisms underlying fetal alcohol developmental toxicity, Neuropathic pain mechanisms and treatments, Oncogenic signaling in cancer progression and metastasis and oncogene-directed treatment options	
Mello, Inola DNP, APRN, FNP-C Family Practice/SON TTUHSC	inola.mello@ttuhsc.edu Office: (806) 743-7282	Vitamin D, sexual health, sleep patterns/anxiety, recreation drug use/misuse in college health	
Moustaid-Moussa, Naima PhD/Nutritional Sciences /TTU	naima.moustaid-moussa@ttu.edu Office: (806) 834-7946	Basic and integrated nutrition and obesity research. Endocrine function of adipose tissue and nutrient-gene interactions in metabolic diseases. Beta cell function in diabetes and childhood obesity	
Murimi, Mary PhD RD: Nutritional Sciences/TTU	Mary.murimi@ttu.edu Office : (806)834-1812	Investigates the effects of the community environment on the nutrition status of the residents, and coping strategies for food insecure households especially among low-income populations. Applies Community based participatory research. Dr. Murimi has collaborative relationship with institutions in both Ethiopia and Kenya.	Food security, maternal and child nutrition, Nutrition education
Nair, Nandini PhD. MD. /Cardiology/ SOM- Lubbock, TTUHSC	Nandini.nair@ttuhsc.edu	Basic/translational/clinical research in heart failure. Proteomics and genomics. cardia transplant and mechanical assist device.	
Neugebauer, Volker MD,PhD/Pharmacology & Neuroscience/SO M-Lubbock, TTUHSC	Volker.neugebauer@ttuhs.c.edu Office: (806) 743-3880	Neurobiological mechanisms of brain dysfunction in preclinical setting related to chronically relevant disorders, such as chronic pain, comorbid conditions of anxiety, depression, alcohol use disorder, and epileptogenesis.	
Oldewage-Theron, Wilna PhD, RD (SA)/Nutritional Sciences/TTU	wilna.oldewage@ttu.edu Office: (806) 834-0567	Investigating the impact of community nutrition programs (food fortification, supplementation, nutrition education, food product development and implementation, school nutrition, vegetable and soy gardening) on food insecurity and the double burden of disease of women, children and the elderly	
Palmer, Ty PhD/Kinesiology and Sport Management/TTU	Ty.palmer@ttu.edu Office: (806) 834-7884	Impact of age-related disparities on muscular function. Interventional strategies to improve functional performance in older adults	
Park, Oak-Hee	Oak-hee.park@ttu.edu	Community nutrition. Food environment.	

PhD/Nutritional Sciences/TTU			
Narissra M. Punyanunt-Carter , PhD Communication, College of Media & Communication TTU	n.punyanunt@ttu.edu Office: (806)834-3273	Health communication; health advocacy, the crafting of messages about health, and strategies for the promotion of health-care services.	
Shen, Leslie PhD, CCRP/ Pathology/ SOM-Lubbock, TTUHSC	Leslie.Shen@ttuhsc.edu Office: (806) 743-2815 Cell: (806) 787-6971	Clinical trials and animal studies – dietary supplement/phytochemicals in musculoskeletal health and obesity. Mind-body exercise (clinical only) in musculoskeletal health and obesity.	Clinical trials - obesity-related chronic diseases (diabetes, metabolic syndrome).
Shin, Andrew PhD / Nutritional Sciences / TTU	andrew.shin@ttu.edu Office: 806-834-1713	Neurobiology of appetite control, body weight regulation, nutrient metabolism. Behavioral neuroscience, Mechanisms underlying bariatric surgery	Branched-chain amino acids, Roux-en-Y gastric bypass, brain, Alzheimer's disease, obesity, diabetes
Singh, Sharda PhD TTUHSC	Sharda.singh@ttuhsc.edu Office: (806) 743-1540	Clinical trials and animal studies – dietary supplement/phytochemicals in prevention of doxorubicin induced cardiotoxicity. Molecular mechanisms involved in protein-protein interaction that prevents cancer development.	
Sizer, Phillip S. Jr. PT, PhD, OCS, FAAOMPT/Rehabilitation Sciences/SHP- Lubbock, TTUHSC	Phil.sizer@ttuhsc.edu Office: (806) 743-3902	Clinical pathoanatomy, sensorimotor control and functional biomechanics of the spine and extremities Tissue and movement screening	
St. John, Julie DrPH, MPH, MA, CHWI/Dept. of Public Health, GSBS, TTUHSC	julie.st-john@ttuhsc.edu Office: 325.696.0473 Cell: 325.513.4943	Health status and quality of life improvement among diverse and rural populations through community health development and partnership approaches; scope of practice and training of Community Health Workers; addressing human trafficking through community capacity building; health disparities; community health status assessments; program evaluation; intervention development	Community based participatory research; Public health; Community health workers; Partnerships Health disparities; Program evaluation
Stroeve, Stephanie PhD, MPH Medical Education	Stephanie.Stroeve@ttuhs.c.edu Office: (806) 743-4424	medical education, medical trainee research, healthcare-associated infection prevention, healthcare epidemiology, public health	

Sun, Grace DNP, APRN, FNP-BC TTUHSC/School of Nursing/TTU Student Health and Wellness	Grace.sun@ttuhsc.edu Office: (806) 743-9246	University Student Health and Wellness; Gastroenterology/Hepatology; Interprofessional education; Nutrition, Physiology, Metabolism	
Tinsley, Grant PhD/Kinesiology & Sport Management/TTU	Grant.tinsley@ttu.edu Office: (806) 834-5895	Body composition assessment methodology, lifestyle interventions to improve body composition, intermittent fasting, dietary supplementation, resistance training	Body composition assessment; intermittent fasting; fat mass; muscle mass; resistance training
Zhang, Fangyuan PhD/Mathematics and Statistics/TTU	fangyuan.zhang@ttu.edu Office: (806) 834-2587	Developing statistical methods to detect genetic effects, epigenetic effects, and interaction effects between genes and environment associated with human complex diseases. Application of biostatistical methods to real data analysis.	Statistical genetics, biostatistics
Zhang, Yan PhD, LAc/Texas Christian University	Yan.zhang@tcu.edu Office: 806-743-6056	Clinical trials-acupuncture and mind-body intervention Health services research-secondary data analysis (NHIS) on CAM related topics, patient-outcome study Complementary and integrative health education	Clinical trials- acupuncture and mind- body intervention, integrative pain management study Health services research- secondary data analysis, patient- outcome study
Zook, Julie PhD/Architecture/ TTU	Julie.zook@ttu.edu Office: (806) 834-0699	Environmental determinants of health related to architectural and urban/community design; use of EHR data to better understand functioning of healthcare architecture	Architecture Healthcare workers Patient experience
Zu, Yujiao PhD/Nutritional Sciences/TTU	Yujiao.zu@ttu.edu Office: (806) 834 0392	Dietary components and obesity-associated metabolic disorders in cells and animals	Obesity Aging Inflammation Mechanisms
Zumwalt, Mimi MD/Orthopedic Surgery/ Sports Medicine TTUHSC	mimi.zumwalt@ttuhsc.edu Office: (806) 743-2465	Female athletes/Injury prevention Exercise techniques/training Rx Natural/alternative nutrition Sex/Gender differences	female athletes sex/gender musculoskel etal injury/ strength & conditioning

Achieved Goals and Objectives

Summarize goals, objectives, and success toward meeting goals and objectives. Describe any changes to goals and objectives with explanation. (Please include the matrix submitted with the center's original application. If not included in original application, please include a matrix that can be used to assess how well the mission and goals of the Center are being met.)

The following are the Center Goals, Objectives, and Matrix submitted with the center's original application:

GOALS and OBEJECTIVES:

Research:

- To foster transdisciplinary/multi-disciplinary collaborations for high quality basic, translational, and clinical research in integrative health within TTUHSC, TTU, and beyond.
- To assist and support researchers in conducting cutting edge research that will grow the empirical evidence base for integrative approaches to healthcare.
- To collaborate with basic scientists to develop biological correlates of integrative health clinical outcomes and explore potential mechanisms of action in effectiveness and efficacy studies.
- To build academic and community research partnerships.
- To rigorously test the safety and effectiveness of integrative health approaches for treatment and management of diseases.
- To present, publish, and disseminate reliable information in integrative health using public and professional outlets.

Education:

- To provide research opportunities for medical students.
- To develop a month-long research elective for 4th-year medical students.
- To host research and education integrative health conference.

METRICS

Achievement of missions and goals will be assessed using the following outcome measures:

- Attendance rate of activities/events organized by the Center.
- Presentations by members (especially invited speaking engagements).
- Publications (abstracts, case-report, full-length manuscripts): joint publications by two or more center members on projects funded by the Center.
- Joint grant applications and new individual applications based on Center projects. These would be expected to be applications to regional and national organizations.
- Participation of medical students in research activity related to integrative health.

Based on the Metrics, the following denotes our achieved goals and objectives: See appendices for members' scholarly activities from 2019 to 2023.

- In the past 5 years, we hosted 5 Center Membership Meetings in-person or hybrid (in-person & zoom). Approximately a total of 90 presentations by our members to update/highlight their research interest and scholarly activities.
- Encouraged members to collaborate for manuscripts (review or research study) and grant proposal applications through offering member profiles and research grant table.

Presentations by members (especially invited speaking engagements):

- From 2019 to 2023, there were 475 oral presentations and 529 poster presentations by our members who turned in their annual reports.

Publications (abstracts, case-reports, full-length manuscripts, joint publications by two or more Center members on projects funded by the Center):

- From 2019 to 2023, there were 1044 peer-reviewed article publications by Center members who turned in their annual reports.

Number of grant awards by Center members:

- A total of 397 grants were received by members related to the 2019-2023 period.

Awards

- A total of 12 awards were received by members in the years of 2022 and 2023.

Others

- Center members are active in teaching medical students, graduate students, and undergraduate students from TTUHSC and TTU.

Descriptions of Center Progress and Activities

Include training activities, meetings sponsored, research, education, services, ongoing research projects, and intellectual property development.

Listed are the following activities that were not included in the Achieved Goals and Objectives section above:

- In the past 5 years, we hosted 5 Center Membership Meetings in-person or hybrid (in-person & zoom). Approximately a total of 90 presentations by our members to update/highlight their research interest and scholarly activities.
- In the past 5 years, we hosted 3 CEIH Integrative Medicine Symposiums to invite keynote speakers in the area of integrative health/medicine (pain, women's health, gender difference, chronic disease management, and cancer).
- TTUHSC is an active member of the Academic Consortium for Integrative Medicine and Health.
<https://imconsortium.org/>

Publications, Presentations, and Other Scholarly Activity

Please see attached appendices (2019-2023) for list of publications (1044 peer-referred journal articles) presentations (476 oral and 529 poster), and other scholarly activity from our Center members who provided the information included in this comprehensive report.

Funding

List grants submitted, grants funded, endowments, program project/center grants, and contracts.

Please see attached appendices (2019-2023) for the list of 367 grant awards with a total amount of \$271 million (covering the year of 2019 to 2023 and related years) from our Center members who provided information. Please note the grant \$ may be shown in repeated years by the same members or joint projects.

Future Plans

Include areas in need of improvement and detailed, proposed solutions.

The following areas are our 2024 plans:

- To work with the Division of Research Innovation, Collaboration, and Entrepreneurship (RICE), Office of Research to promote the Center via the Research Connect Lunch & Learn platform to substitute for a CEIH 2024 Center Membership Meeting.
- To host a 2024 Center Steering Committee Meeting regarding the future direction of CEIH. Consider rotating 2 members from existing Steering Committee and invite 2 new members to serve.
- To add new CEIH Leadership to stimulate member involvement:
 - Director of Activity to promote the member’s work, including collaboration within the Center
 - Director of Recruitment to infuse the Center with new blood and cultivate our organizations achievements
- To organize the CEIH Integrative Medicine Symposium planning committee for an upcoming CEIH Symposium in 2024 or 2025.
- To promote the Center and its members visibility locally to increase scholarly interaction.
- To increase research collaboration/discussion among center members as evidenced by increased collaborative grant proposal submissions and manuscript publications.
- To promote integrative health/medicine in medical student education.
- To continue public and professional integrative health/medicine education.
- To continue professional training in Integrative Medicine Education for medical student electives and clubs.
- To provide research opportunities for medical students or trainees.
- To provide seed funding for center members in collecting preliminary data for future proposal submission.
- To provide/exchange information at the Academic Consortium for Integrative Medicine and Health with center members for career development/growth in the area of Integrative Medicine and Health.

Other Highlights

Provide any other information not already covered in this report.

None.

Budget

Include itemized expenses, and proposed budget for upcoming fiscal year.

Current:

- There is currently no budget designated from the School of Medicine for CEIH.
- The Center currently has available fund ~ \$16,300.

2019 CEIH ANNUAL REPORT

PUBLICATIONS, PRESENTATIONS, AND OTHER SCHOLARLY ACTIVITY

AL-RAHAWAN, MOHAMAD

Publications

1. Turner A, Preston D, Mamlok V, Belirgen M, Al-Rahawan MM. Atypical Presentation of Multinodular and Vacuolating Neuronal Tumor of the Cerebrum in a Boy, *J Neurosci Rural Pract*. 2019, In Press.
2. Averitt G, Al-Rahawan MM, Levent F. Neonatal Disseminated Herpes Simplex Virus Infection Triggering Extreme Hyperferritinemia Concerning for Hemophagocytic Lymphohistiocytosis. *J Investig Med High Impact Case Rep*. 2019 Jan-Dec; 7: 2324709619862840.
3. Eldem İ, Al-Rahawan MM, Levent F. How to Treat Cytomegalovirus-induced Hemophagocytic Lymphohistiocytosis in a Child With Leukemia. *J Pediatr Hematol Oncol*. 2019 Jul 10

Presentations

Other Scholarly Activity

- | | |
|---|-------------|
| • Alex Lemonade Stand Foundation | \$38,807.00 |
| • South Plains Foundation | \$13,000.00 |
| • Local PI for UMC at the Children's Oncology Group (COG) | \$16,450.00 |
| • Joon Park, MD; UMC Endowed Chair in Medical Excellence | \$30,000.00 |
| • Cancer Prevention & Research Institute of Texas (CPRIT) | \$73,398.00 |

BLANTON, MICHAEL

Publications

Presentations

Other Scholarly Activity

1. September 1, 2018 - August 31, 2019, Blanton MP, Blanton Research Support from GSBS, \$9,000 (Total Amount). (Funded)
2. September 1, 2019 - August 31, 2020, Blanton MP, Blanton Research Support from GSBS, \$9,000 (Total Amount). (Funded)

BRISMÉE, JEAN-MICHEL

Publications

1. Mabry LM*, Boyles RE, Brismée JM, Agustsson H, Smoliga JM. Physical Therapy Musculoskeletal Imaging Authority: A Survey Of The World Confederation For Physical Therapy Nations. *Physiotherapy Research International*. 2019:e1822. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/pri.1822>
2. Davis AJ, Wilhelm MP, Pendergrass TJ, Sechrist DA, Brismée JM, Sizer PS, Gilbert KK*. Anatomical Relationship of Palmar Carpal Bone Landmarks Used in Locating the Lunate and Capitate During Palpation: A Cadaveric Investigation. *Journal of Hand Therapy*. 2019;32(4):463-469.
3. Riley SP*, Tafuto V, Cote M, Brismée JM, Wright A, Cook C. Reliability and Relationship of the Fear-Avoidance Beliefs Questionnaire with the Shoulder Pain and Disability Index and Numeric Pain Rating Scale in Patients with Shoulder Pain. *Physiotherapy Theory and Practice*. 2019;35(5):464-470.
4. Brismée JM*. The Journal of Manual and Manipulative Therapy is now Indexed in MEDLINE. *Journal of Manual and Manipulative Therapy*. 2019;27(4):185.
5. Majdalani C, Boudier-Revéret M, Pape JM, Brismée JM, Michaud J, Luong DH, Grabs D, Chang KV, Chen WS, Wu CH, Sobczak S. Accuracy of Two Ultrasound-Guided Coracohumeral Ligament Injection Approaches: A Cadaveric Study. *Physical Medicine and Rehabilitation*. 2019;11(9):989-995.
6. Hage R, Buisseret F, Pitance L, Brismée JM, Detrembleur C, Dierick F. Head-Neck Rotational Movements Using Didren Laser Test Indicate Children and Seniors' Lower Performance. *PLoS One*. 2019;14(7):e0219515 <https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0219515&type=printable>.
7. Riley SP, Swanson BT, Brismée JM, Sawyer SF, Dyer EJ. Low reproducibility of randomized clinical trials methodology related to sampling: a systematic methodological review. *Journal of Manual and Manipulative Therapy*. 2019;27(1):1-9.

8. Tammany J, O'Connell J, Allen B, Brismée JM. Are Productivity Goals in Rehabilitation Practice Associated with Unethical Behaviors? *Archives of Rehabilitation Research and Clinical Translation*. 2019;1,100002
<https://reader.elsevier.com/reader/sd/pii/S2590109519300011?token=21835A30E86D5D7C546787F9B461957EA144F67DDF08884DA211BA55A27FA908D0F622597DFA466A8C75FB81AA65982A>
9. Froment FP*, Olson KA, Hooper TL, Shaffer SM, Sizer PS, Woodhouse LJ, Brismée JM. Large Variability Found in Musculoskeletal Physiotherapy Scope of Practice Throughout WCPT and IFOMPT Affiliated Countries: An International Survey. *Musculoskeletal Science and Practice*. 2019;42:104-119.
10. Kearns G, Fernández-De-Las-Peñas C, Brismée JM, Gan J, Doidge J. New perspectives on dry needling following a medical model: are we screening our patients sufficiently? *Journal of Manual and Manipulative Therapy*. 2019;19:1-8.

Presentations

Other Scholarly Activity

DUFOUR, JANNETTE

Publications

1. Kaur G, Wright K, Greer RH, Mueller K, Haynes A, Dufour JM. Chapter 6: Sertoli cell immune regulation within in the testis. In: C. Yan Cheng (Ed.) *Spermatogenesis: Biology and Clinical Implications*. CRC Press 2018
2. Kaur G, Thompson LA, Babcock RL, Mueller K, Dufour JM. 2018 Sertoli cells engineered to express insulin lower blood glucose in diabetic mice. *DNA and Cell Biology* doi: 10.1089/dna.2017.3937. *Cover photo*
3. Kaur G, Dufour JM. 2018 An update on the School of Medicine's Medical Student Research Program at Texas Tech University Health Sciences Center. *The Southwest Respiratory and Critical Care Chronicles* doi: 10.12746/swrccc.v6i24.471.
4. Kaur G, Helmer RA, Smith LA, Martinez-Zaguilan R, Dufour JM, Chilton BS. 2018 Alternative splicing of helicase-like transcription factor (Hlft): intron retention-dependent activation of immune tolerance at the fetomaternal interface. *PLOS One* 13(7) doi: 10.1371/journal.pone.0200211
5. Shen CL, Kaur G, Wanders D, Sharma S, Tomison MD, Ramalingam L, Chung E, Moustaid-Moussa N, Mo H, Dufour JM. 2018 Annatto-extracted tocotrienols improve glucose homeostasis and bone properties in high-fat diet-induced type II diabetic mice by decreasing the inflammatory response. *Scientific Reports* 8(1):11377 doi:10.1038/s41598-018-29063-9.
6. Chung E, Campise SN, Joiner HE, Tomison MD, Kaur G, Dufour JM, Cole L, Ramalingam L, Moustaid-Moussa N, Shen CL. 2019 Effect of annatto-extracted tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle metabolism in obese male mice. *Journal of Nutritional Biochemistry* 67:36- 43. doi: 10.1016/j.jnutbio.2019.01.021.
7. Kaur G, Dufour JM. 2019 Highlighting the importance of medical research: School of Medicine medical student research program. *The Southwest Respiratory and Critical Care Chronicles* doi: 10.12746/swrccc.v7i29.550.
8. Chung E, Grue KA, Kaur G, Mallory B, Serrano CR, Ullevig SL, Kottapalli KR, Lee SC, Dufour JM, Shen CL, Umeda M. 2019 Maternal exercise before and during pregnancy alleviates metabolic dysfunction associated with high-fat diet in pregnant mice, without significant changes in gut microbiota. *Nutrition Research* 69: 42-57. DOI: 10.1016/j.nutres.2019.08.002
9. Kaur G, Wright K, Verma S, Haynes A, Dufour JM. The good, the bad and the ugly of testicular immune regulation: a delicate balance between immune function and immune privilege. *Molecular Mechanisms in Spermatogenesis* (in press).

Abstracts

1. Shen CL, Tomison MD, Ramalingam L, Chung E, Moustaid-Moussa N, Dufour J. Synergistic effect of dietary delta-tocotrienol and geranylgeraniol on bone properties in obese C57BL/6J mice with obesity-associated type 2 diabetes mellitus. *International Congress on Integrative Medicine & Health* (Baltimore, MD, May 8-11, 2018).
2. Wankhade U, Chintapalli S, Piccolo BD, Tomison MD, Wright K, Gabrielska R, Kaur G, Dufour J, Shankar K, Shen CL. Effects of tocotrienol and statin supplementation on microbiome and glucose homeostasis in inbred obese mice. *Nutrition 2018*. (Boston, MA, June 9-12, 2018). (Oral Presentation)
3. Mueller K, Dufour J. The Effects of Genetically Engineered Sertoli Cell produced C-peptide on Expression of Key Endothelial Cell Genes in Hyperglycemic Environments. *2018 American Physician Scientists Association South Regional Meeting* (Houston, TX, September 29, 2018).
4. Wright K, Kaur G, Mital P, Dufour J. Induction of regulatory macrophages after Neonatal Pig Sertoli cell xenotransplantation. *2018 American Physician Scientists Association South Regional Meeting* (Houston, TX, September 29, 2018). (Best Poster)

5. Kaur G, Dufour JM. Mechanisms of Sertoli Cell Immune Regulation. 52nd Annual Gene Families and Isozymes (GFI) Conference (Protrero, Costa Rica, December 6, 2018). (Mini-symposium)
6. Kaur G, Helmer RA, Dufour JM, Chilton BS. Hltf-deletion causes immune destruction of pancreatic beta cells during development. ENDO 2019 (New Orleans, LA, March 23, 2019).
7. Dufour JM, Kaur G. Mechanisms of Sertoli Cell Immune Regulation. 44st Annual American Society of Andrology Meeting (Chicago, Illinois, April 6-9, 2019). (Mini-symposium)
8. Shen CL Kaur G, Dufour JM, Ramalingam L, Chung E, Moustaid-Moussa N, Chao JJ. Effect of geranylgeraniol and green tea polyphenols on high-fat-diet-induced bone deterioration in male B6 mice. Nutrition 2019 (Baltimore, MD June 8-11, 2019).
9. Dufour JM, Mueller K, Moreno T, Kaur G. Effects of Sertoli cell secreted C-Peptide on high glucose induced endothelial cell damage. 52th Annual Meeting for the Society for the Study of Reproduction (San Jose, CA, July18-21, 2019).

Presentations

1. Using Sertoli Cells to Treat Diabetes. Center of Emphasis in Diabetes and Metabolism, Biomedical Sciences, TTUHSC (El Paso, TX, September 12, 2018).
2. Using Sertoli Cells to Treat Diabetes. Student and Faculty Retreat, Graduate School of Biomedical Sciences (Lubbock, TX, September 21, 2018) (Keynote Lecture)
3. Mechanisms of Sertoli Cell Immune Regulation. 52nd Annual Gene Families and Isozymes (GFI) Conference (Bahia del Sol, Potrero, Costa Rica, December 6, 2018)
4. Mechanisms of Sertoli Cell Immune Regulation. "Fertility and Men's Health" American Society of Andrology 44st Annual Conference (Chicago, IL, April 6-9, 2019).

Other Scholarly Activity

1. Wilson Foundation, "Genetically engineered Sertoli cells as a vehicle for cell based gene therapy." (\$420,000, 12/01/2014-11/30/2020)
2. Dufour (Principal Investigator), Kaur (Co- Investigators). Ted Nash Long Life Foundation, "Reducing cardiovascular risks using Sertoli cell-based gene therapy." (\$300,000, 12/01/2016-11/30/2019)
3. Dufour (Principal Investigator), Kaur (Co- Investigators). Laura W. Bush Institute for Women's Health and University Medical Center Women's Health Seed Grant Award, "Utilizing tocotrienols to prevent the formation of islet amyloid deposits – a novel treatment for diabetes mellitus.," (\$20,000, 11/1/2017-10/31/2019)
4. Kaur (Principal Investigator), Dufour, Shen, Cornwall (Co- Investigators). NIH R15AI109398, "Regulatory T cells to improve Sertoli cell protection of transplanted islets." (\$448,871, 07/01/2014 – 06/30/2017, no cost extension to 6/30/2018) Dufour (Principal Investigator)
5. South Plains Foundation "Examining the mechanism of porcine Sertoi cell survival to improve xenotransplantation." (\$15,0000 Total, 9/01/2017–08/31/2018). Kaur (Principal Investigator), Dufour (Co- Investigators)

ENKPENE, CHRISTOPHER A

Publications

1. Della Torre MD, Enakpene C, Ravagard S, et al. Pharmacokinetics of 17-alpha hydroxyporgesterone caproate (17-OHPC) in singleton pregnancy and its influence of maternal body size measures. American Journal of Obstetrics and Gynecologist MFM. 2Volume 1, Issue 4, November 2019, 100051.
2. Majeed NK, Oramas D, Lindgren V, Garzon S, Wiley DE, Enakpene C, Emmadi R. A Case of Osteogenesis Imperfecta Type II With Additional Balanced Translocation t(1;20)(p13;p11.2). Fetal Pediatr Pathol. 2019 Jun;38(3):263-271.
3. Enakpene CA, Pontarelli KN, Della Torre M. Comparison of Continuation of Low-Molecular-Weight Heparin versus Switching to Unfractionated Heparin in the Peripartum. American Journal of Perinatology. 2019 Feb 28. doi: 10.1055/s-0039-1678667, PMID: 30818405
4. Reply to letter to the editor Enakpene CA, DiGiovanni L, Della Torre M American Journal of Obstetrics and Gynecologist. 2019 Feb; 220 (2): 210. Doi: 10.1016/j.ajog.2018.10.019. PMID: 30342002.

Presentations

1. Della Torre MD, Enakpene CA, Ravangard S, Sutherland M, DiGiovanni L, Whelan A, Fischer JH. Influence of maternal body size on pharmacokinetics of weekly 17 alpha Hydroxyprogesterone Caproate (17OHPC). AJOG, January 2019Volume 220, Issue 1, Supplement, Pages S15–S16

2. Sutherland MB, Garvey S, Enakpene, CA, DiGiovanni LM, Della Torre M. Barriers to Vaginal Progesterone in the Treatment of Incidental Short Cervix. *Obstetrics & Gynecology*: May 2019 - Volume 133 - Issue - p 91S-92S doi: 10.1097/01.AOG.0000558766.94444.2c
3. Enakpene CA, Jones TN. Della Torre M, Knazze LR, Jin M, DiGiovanni LM. Perinatal Outcomes of Gestational Impaired Glucose Tolerance Without Diagnosis of Gestational Diabetes. *Obstetrics & Gynecology*: May 2019 - Volume 133 - Issue - p 56S-57S doi: 10.1097/01.AOG.0000559013.88531.70
4. Enakpene CA, Tan C, Morgan T, Sutherland MB; DiGiovanni LM, Della Torre M. Prenatal Genetic Diagnostic Testing in the Era of Cell Free Fetal DNA For Aneuploidy Screening. *Obstetrics & Gynecology*: May 2019 - Volume 133 - Issue - p 44S doi: 10.1097/01.AOG.0000558967.83655.63

Other Scholarly Activity

KAUR, GURVINDER

Publications

1. Helmer RA, Kaur G, Smith LA, Chilton BS. 2019 Helicase-like transcription factor (Hltf) gene-deletion promotes oxidative phosphorylation (OXPHOS) in colorectal tumors of AOM/DSS-treated mice. *PLoS ONE* 14(8): e0221751.
2. Kaur G, Dufour JM. 2019 Highlighting the importance of medical research: School of Medicine medical student research program. *The Southwest Respiratory and Critical Care Chronicles* 7(29):1-2.
3. Chung E, Grue KA, Kaur G, Mallory B, Serrano CR, Ullevig SL, Kottapalli KR, Lee SC, Dufour JM, Chen CL, Umeda M. 2019 Maternal exercise before and during pregnancy alleviates metabolic dysfunction associated with high-fat diet in pregnant mice, without significant changes in gut microbiota. *Nutr Res.* 69: 42-47.
4. Chung E, Campise SN, Joiner HE, Tomison MD, Kaur G, Dufour JM, Cole L, Ramalingam L, Moustaid-Moussa N, Chen CL. 2019 Effect of annatto-extracted tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle metabolism in obese male mice. *J Nutr Biochem.* 10(67): 36-43.

Presentations

1. Dufour JM, Mueller K, Moreno T, Kaur G. Effects of Sertoli cell secreted C-peptide on high glucose induced endothelial cell damage. 52nd Annual Meeting for the Society for the Study of Reproduction (San Jose, CA, July 18-21, 2019).
2. Kaur G, Lee VH, Williams S, Higgins K, Schneider B. Can formative assessments preemptively identify “at risk” medical students? American Association of Clinical Anatomists (ACCA) Annual Meeting (Tulsa, OK, June 11-15, 2019). *Published in Clinical Anatomy Journal (Finalist for AACA Clinical Anatomy Membership Award)*.
3. Shen CL, Kaur G, Dufour JM, Ramalingam L, Chung E, Moustaid-Moussa N, Cao JJ. Effect of geranylgeraniol and green tea polyphenols on high-fat-diet-induced deterioration in male C57BL/6J mice. Annual Nutrition Science Meeting (Baltimore, MD, June 8-11, 2019).
4. Kaur G, Dufour JM. Mechanisms of Sertoli cell immune regulation. Fertility and Men’s Health, American Society of Andrology 44th Annual Conference (Chicago, IL, April 6-9, 2019). (Oral presentation).
5. Kaur G, Helmer RA, Dufour JM, Chilton BS. 2019 Hltf-deletion causes immune destruction of pancreatic beta cells during development. ENDO 2019 (New Orleans, LA, March 23- 26, 2019).
6. Jones B, Benejan K, Brown T, Darter J, Edwards D, Kaur G, Kruczek C, Loya C, Mendez E, Mitchell J, Pires B, Reynolds J, Sorenson J. A Student-Generated, Peer-Led teaching activity for MSK and bone disorders. 2019 Society of Teachers of Family Medicine (STFM) Conference on Medical Student Education (Jacksonville, FL, Jan 31-Feb 3, 2019).

Other Scholarly Activity

Jasper & Jack Wilson Foundation (\$50,000) Kaur (Co-I, 3% effort) 12/01/2018-11/30/2020

Genetically Engineered Sertoli Cells as Vehicle Cell Based Gene therapy.

The focus of this project is to genetically engineer Sertoli cells with insulin in order to use these immune privileged cells as a vehicle for cell-based gene therapy, specifically ameliorating diabetes.

LEE, JAEHOON

Publications

1. Alsayedhassan, B., Banda, D., Lee, J., Kim, Y.*, & Griffin-Shirley, N. (2019). A survey of parents’ perceptions of the picture exchange communication system for children with autism spectrum disorders and other developmental disabilities. *Clinical Archives of Communication Disorders*, 4(1), 1–9.
2. Alsayedhassan, B., Lee, J., Banda, D., Kim, Y.*, & Griffin-Shirley, N. (in press). Practitioners’ perceptions of the picture exchange communication system for children with autism. *Disability and Rehabilitation*.

3. Chu, S.-Y., Barlow, S. M., Lee, J., & Wang, J. (in press). Effects of utterance rate and length on the spatiotemporal index in Parkinson's disease. *International Journal of Speech-Language Pathology*.
4. Emerson, A. M., Smith, S., Lee, J., Kelly, P. J., & Ramaswamy, M. (in press). Effectiveness of a Kansas City, jail-based intervention to improve cervical health literacy and screening, one-year post-intervention. *American Journal of Health Promotion*.
5. Hunt, P., Kozleski, E., Lee, J., Mortier, K., Fleming, D., Hicks, T., Balasubramanian, L., Leu, G., Bross, L. A., Munandar, V., Dunlap, K., Stepaniuk, I., Aramburo, C., & Oh, Y.* (in press). Implementing comprehensive literacy instruction for students with severe disabilities in general education classrooms. *Exceptional Children*.
6. Jung, K., Cho, S., Lee, J., Kim, S.*, & Ryoo, J. (in press). An illustrative application of generalized structured component analysis for brain connectivity research. *Behaviormetrika*.
7. Jung, K., Lee, J., Gupta, V., & Cho, G. (in press). Comparison of bootstrap confidence interval methods for GSCA using Monte Carlo simulations. *Frontiers in Psychology*, 10, 2215.
8. Kim, S. Y., Lee, J., Wester, S., & Fouad, N. A. (in press). Do "manly" men believe other men are happier? Social comparison, masculine norms, and positive work-family spillover. *Psychology of Men & Masculinity*.
9. Loeb, D. F., Imgrund, C. M., Lee, J., Barlow, S. M. (in press). Language, motor, and cognitive outcomes of toddlers who were born preterm. *American Journal of Speech-Language Pathology*.
10. Pati, D., Valipoor, S., Cloutier, A., Yang, J., Freier, P., Harvey, T. E., & Lee, J. (in press). Physical design factors contributing to patient falls. *Journal of Patient Safety*.
11. Ptomey, L. T., Washburn, R. A., Lee, J., Greene, A. N., Szabo-Reed, A. N., Sherman, J. R., Danon, J. C., Osborne, L. N., Little, T. D., & Donnelly, J. E. (in press). Individual and family-based approaches to increase physical activity in adolescents with intellectual and developmental disabilities: Rationale and design for an 18 month randomized trial. *Contemporary Clinical Trial*.
12. Smith, P., Kumi-Yeboah, A., Chang, R., Lee, J., & Frazier, P. (in press) Rethinking '(under)performance' for Black English speakers: Beyond achievement to opportunity. *Journal of Black Studies*.
13. Szabo-Reed, A. N., Willis, E., Lee, J., Hillman, C. H., Washburn, R. A., & Donnelly, J. E. (2019). The influence of classroom physical activity participation and time-on-task on academic achievement. *Translational Journal of the American College of Sports Medicine*, 4(1), 84 –95.

Presentations

1. Count, Multicategory, & Survival, Dept. of Psychology, Indiana University–Purdue University Indianapolis, Indianapolis, IN, 09/2019.
2. Propensity Score Methods for Applied Clinical Research, Menninger Dept. of Psychiatry and Behavioral Sciences, Baylor College Medicine, Houston, TX, 08/2019.

Other Scholarly Activity

1. A dyadic approach for a remote physical activity intervention in adults with Alzheimer's disease and their caregivers, Donnelly & Ptomey (PIs), NICHD R01HD094704, 09/15/2019–05/31/2024, \$3,635,657.
2. Revised Calculus Concept Inventory: Measuring the learning gains of first year calculus students, Moskal (PI), NSF 1916751, 10/01/2019-09/30/2022, \$300,000.
3. Sexual health empowerment for jail-involved women's health literacy and prevention, Ramaswamy (PI), NCI R01CA181047, 04/01/2019–03/31/2024, \$1,602,097
4. Teacher Incentive Allotment, Hamman (PI), Texas Education Agency, 11/01/2019–10/31/2020, \$7,904,193
5. Competitive Edge Seed Grant: Development of institutional research analytics tools and platform, Jung & Lee (PIs), Texas Tech University, 06/01/2019–08/31/2021, \$15,000.
6. International Research and Development Seed Grant: Development of a new machine learning-based predictive model for ADHD diagnosis using ADHD-200 brain imaging datasets, Jung & Lee (PIs), Texas Tech University, 09/01/2019–08/31/2020, \$2,000.
7. The influence of parents' work-family conflict on adolescents' school-work-family conflict, academic and psychological well-being: A daily diary study (Kim, PI), Texas Tech University, 01/01/2019–12/31/2019, \$4,000.

LEE, SUEANN

Publications

1. Lee SAS (2019). Virtual speech-language therapy for individuals with communication disorders: Current evidence, limitations, and benefits. *Current Developmental Disorders Reports*.
2. Bae Y, Lee SAS, *Velik K, *Liu Y, *Beck C, Fox R. (Accepted) Differences in nasalance and nasal perception between Texas South and Midland dialect in English. Accepted for publication, Journal of Acoustical Society of America

Presentations

1. Lee SAS (2019). Assessment and Intervention for pediatric speech disorders, 40 hour workshop. Vietnam National University, School of Medicine, Hanoi, Vietnam. 2019
2. Lee SAS (2019) Introduction to Evidence-Based Practice in Speech-Language Pathology, Dept of Communication sciences and disorders, Dae Gu University. 2019

Other Scholarly Activity

1. Lee SAS (PI) "Teaching words and grammatical morphology via telepractice". The CH Foundation, Lubbock TX, \$27,000
2. Lee SAS (PI) Effectiveness of telepractice intervention for children with SLI. Seed grant for submitting a federal grant agency (NIH), TTUHSC, School of Health Professions. \$10,000
3. Lee SAS (PI) Fulbright Research and Teaching grant to Vietnam, US Department of State. Project title: Phonological development milestones in Vietnamese-speaking children. \$40,000

LUK, HUIYING

Publications

1. Luk, HY., Levitt, DE., Boyett, JC., Rojas, S., Flader, SM., McFarlin, BK., Vingren, JL. (2019). Resistance exercise-induced hormonal response promotes satellite cell proliferation in untrained men but not in women, *American Journal of Physiology: Endocrinology and Metabolism*, 317: E421-E432.

Presentations

Other Scholarly Activity

MOUSTAID MOUSSA, NAIMA

Publications

1. Oliveira TE, Castro E, Belchior T, Andrade ML, Silva MO, Moreira RJ, Moreno MF, Chaves-Filho AB, Inague A, Yoshinaga MY, Miyamoto S, Moustaid-Moussa N, Festuccia WT. Uncoupling protein 1-mediated thermogenesis is not involved in the protection from obesity and glucose intolerance induced by a high fish oil diet. *Mol Nutr Food Res* 2019 Apr; 63(7): e1800813. doi: 10.1002/mnfr.201800813.
2. Pahlavani M, Ramalingam L, Scoggin S, Festuccia WT, Moustaid-Moussa N. At thermoneutrality, uncoupling protein 1 is not required for regulation of brown adipose tissue and energy metabolism by eicosapentaenoic acid. *Mol Nutr Food Res* 2019 Apr; 63(7):e1800821. doi: 10.1002/mnfr.201800821
3. Bouyanfif A, Jayarathne S, Koboziev I, Moustaid-Moussa N. The nematode *C. elegans* as a model organism to study metabolic effects of omega 3 polyunsaturated fatty acids in obesity. *Adv Nutr* 10(1):165-178, 2019
4. Maqsudur Rashid A, Ramalingam L, Al-Jawadi A, Moustaid-Moussa N, Moussa H. Low dose radiation, inflammation, cancer and chemoprevention. *Int J Radiat Biol*. 2019 Apr;95(4):506-515. doi: 10.1080/09553002.2018.1484194.
5. Albracht-Schulte K, Gonzalez 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* 12; 11 (3), 2019
6. Menikdiwela KR, Ramalingam L, Allen L, Scoggin S, Kalupahana NS, Moustaid-Moussa N. Angiotensin II Increases Endoplasmic Reticulum Stress in Adipose Tissue and Adipocytes. *Sci Rep* 9 (1):8481, pages 1-14; 2019 [Current IF: 4.122; 5 Year IF: 4.7]
7. Kumar N, Awoyemi O, Willis A, Schmitt C, Ramalingam L, Moustaid-Moussa N, Crago J. Comparative Lipid Peroxidation and Apoptosis in Embryo-Larval Zebrafish Exposed to 3 Azole Fungicides, Tebuconazole, Propiconazole, and Myclobutanil, at Environmentally Relevant Concentrations. *Environ Toxicol Chem* 38(7):1455-1466, 2019
8. Chung E, Campise SN, Joiner HE, Tomison MD, Kaur G, Dufour JM, Cole L, Ramalingam L, Moustaid-Moussa N, Shen CL. Effect of annatto-extracted tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle metabolism in obese male mice. *J Nutr Biochem* 67:36-43, 2019.
9. Ramalho T, Ramalingam L, Filgueiras L, Jancar S, Moustaid-Moussa N. Leukotriene-B4 modulates macrophage metabolism and fat loss in type 1 diabetic mice. In review. *J Leukoc Biol* 2019 Jun 26. doi: 10.1002/JLB.MA1218-477RR
10. Jayarathne S, Stull AJ, Park OJ, Kim JH, Thompson L, Moustaid-Moussa N. Protective effects of anthocyanins in obesity-associated inflammation and changes in gut microbiome. *Mol Nutr Food Res* 2019 Oct;63(20):e1900149. doi: 10.1002/mnfr.201900149. Epub 2019 Aug 26

11. Kahathuduwa CN, West BD, Blume J, Dharavath N, Moustaid-Moussa N, Mastergeorge A. The risk of overweight and obesity in children with autism spectrum disorders: A systematic review and meta-analysis. *Obes Rev*. 2019 Dec;20(12):1667-1679. doi: 10.1111/obr.12933. Epub 2019 Oct 8. Review.
12. Rasha F, Ramalingam L, Gollahon L, Rahman RL, Rahman SM, Menikdiwela K, Moustaid-Moussa N. Mechanisms linking the renin-angiotensin system, obesity, and breast cancer. *Endocr Relat Cancer*. 2019 Dec 1;26(12):R653-R672. doi: 10.1530/ERC-19-0314. Review.
13. Rivas E, Crandall CG, Suman OE, Moustaid-Moussa N, Ben-Ezra V. Exercise heat acclimation causes post-exercise hypotension and favorable improvements in lipid and immune profiles: A crossover randomized controlled trial. *J Therm Biol*. 2019 Aug;84:266-273. doi: 10.1016/j.jtherbio.2019.07.017. Epub 2019 Jul 13.
14. Albracht-Schulte K, Rosairo S, Ramalingam L, Wijetunge S, Ratnayake R, Kotakadeniya H, Dawson JA, Kalupahana NS, Moustaid-Moussa N. Obesity, adipocyte hypertrophy, fasting glucose, and resistin are potential contributors to nonalcoholic fatty liver disease in South Asian women. *Diabetes Metab Syndr Obes*. 2019 Jun 10;12:863-872. doi: 10.2147/DMSO.S203937. eCollection 2019.
15. Ramalho T, Ramalingam L, Filgueiras L, Festuccia W, Jancar S, Moustaid-Moussa N. Leukotriene-B4 modulates macrophage metabolism and fat loss in type 1 diabetic mice. *J Leukoc Biol* 2019 Sep;106(3):665-675. doi: 10.1002/JLB.MA1218-477RR. Epub 2019 Jun 26.
16. Menikdiwela KR, Ramalingam L, Allen L, Scoggin S, Kalupahana NS, Moustaid-Moussa N. Angiotensin II Increases Endoplasmic Reticulum Stress in Adipose Tissue and Adipocytes. *Sci Rep* 2019 Jun 11;9(1):8481. doi: 10.1038/s41598-019-44834-8.

Synergistic effects of tart cherry anthocyanins and omega 3 fatty acids	USDA NIFA	2019-2022	PI
Maternal dietary obesity and metabolic disorders in offspring	AHA	2017-2019	Co-I
Gene and miRNA networks mediating effects of fish oil	USDA NIFA Postdoctoral fellowship (Mandana Pahlavani)	2018-2020	Mentor/Sponsor
Role of HSP proteins in diabetes and obesity	Qatar Biomedical Research Institute	2018-2020	PI
Effects of lean beef proteins and pH on reducing obesity, diabetes and cancer	Empirical Foods Inc	2018-2021	PI
Systematic Review on role of beef proteins on gut microbiome	NBCA (Beef checkoff)	2019	PI
miRNAs mediating effects of omega 3 fatty acids in fatty liver disease	USDA Pre-doctoral fellowship (Kembra Albracht-Schulte)	2017-2019	Mentor/Sponsor
Antiobesity effects of omega 3 fatty acids in brown adipose tissue	NIH/NCCIH	2016-2020	PI
Protective effects of omega 3 fatty acids in Alzheimer's Disease	Supplement to above award from NIA	2018-2020	PI

NEUGEBAUER, VOLKER

Publications

1. Navratilova E, Ji G, Phelps CE, Qu C, Hein M, Yakhnitsa V, Neugebauer V, Porreca F. Kappa opioid signaling in the central nucleus of the amygdala promotes disinhibition and aversiveness of chronic neuropathic pain. *Pain* 160:824–832, 2019. PMID 30681985. *PMC6424634*. [Featured Article: Editor's Choice].
2. Boccella S, Marabese I, Iannotta M, Belardo C, Neugebauer V, Mazzitelli M, Pieretti G, Maione S, Palazzo E. Metabotropic glutamate receptor 5 and 8 modulate the ameliorative effect of ultramicrodosed palmitoylethanolamide on cognitive decline associated with neuropathic pain. *Int J Mol Sci* 20:1757, 2019. PMID: 30970677. *PMC6480075*.
3. Mazzitelli M, Neugebauer V. Amygdala group II mGluRs mediate the antinociceptive effects of a systemic group II agonist in a rodent model of arthritis pain. *Neuropharmacology* 158:107706, 2019. PMID: 31306647. *PMC6745268*.
4. Ji G, Neugebauer V. Contribution of CRF1 receptor to 5-HT2C receptor function in amygdala neurons in a neuropathic pain model. *Int. J. Mol. Sci.* 20:4380. 2019. PMID: 31489921. *PMC6770811*
5. Navratilova E, Nation K, Remeniuk B, Neugebauer V, Bannister K, Dickenson AH, Porreca F. Selective modulation of tonic aversive qualities of neuropathic pain by morphine in the right central nucleus of the amygdala requires endogenous opioid signaling in the anterior cingulate cortex. *Pain (in press)* PMID: 31725062 DOI: 10.1097/j.pain.0000000000001748.

6. Chen Y, Moutal A, Navratilova E, Kopruszinski C, Yue X, Ikegami M, Chow M, Kanazawa I, Bellampalli SS, Xie J, Patwardhan A, Rice KC, Fields HL, Akopian A, Neugebauer V, Dodick D, Khanna R, Porreca F. The prolactin receptor long isoform regulates nociceptor sensitization and opioid-induced hyperalgesia selectively in females. *Sci Translat Med (accepted)*.
7. Thompson JM, Neugebauer V. Cortico-limbic pain mechanisms. *Neurosci. Lett.* 702:15-23, 2019. PMID 30503916. *PMC6520155*.
8. Palazzo E, Neugebauer V, Maione, S. Metabotropic glutamate receptors and neurological/psychiatric disorders. *Front Mol Neurosci* 12:67-68, 2019. PMID: 30967761. *PMC6438890*.

Abstracts 2019

1. Mazzitelli, M., Neugebauer, V. Group II metabotropic glutamate receptors, particularly mGluR2, in the amygdala regulate sensory and affective responses in a rodent model of arthritis pain. 31st Annual Student Research Week, TU48, p. 30, 2019.
2. Presto, P.D., Ji, G., Neugebauer, V. Sex differences in fear extinction learning ability predicting pain behaviors. 31st Annual Student Research Week, TH78, p. 86, 2019.
3. D'Souza, P., Kiritoshi, T., Yakhnitsa, V., Neugebauer, V. Assessing the activity of CRF neurons in the central amygdala following application of Kappa Opioid Receptor agonist. 31st Annual Student Research Week, W88, p. 67, 2019.
4. Hein, M.A., Yakhnitsa, V., Ji, G., Navratilova, E., Porreca, F., Neugebauer, V. Kappa opioid receptor mediated disinhibition of amygdala CRF neurons. 31st Annual Student Research Week, W4, p. 38, 2019.
5. * Kiritoshi, T., Yakhnitsa, V.A., Neugebauer, V. Correlation between pain-related behaviors and synaptic transmission in amygdala CRF neurons in a neuropathic pain model. *Soc. Neurosci. Abstr.* 49:422.21, 2019.
6. * Neugebauer, V., Mazzitelli, M., Yakhnitsa, V. Optogenetic stimulation of amygdala CRF neurons modulates pain-related behaviors in a rodent model of neuropathic pain. *Soc. Neurosci. Abstr.* 49:482.22, 2019
7. * Hein, M.A., Ji, G., Navratilova, E., Porreca, F., Neugebauer, V. Kappa opioid receptor blockade restores inhibition of amygdala CRF neurons in a functional pain model. *Soc. Neurosci. Abstr.* 49:482.23, 2019.
8. * Ji, G., Navratilova, E., Porreca, F., Neugebauer, V. Kappa opioid receptors mediate hyperactivity of central amygdala neurons in a functional pain model. *Soc. Neurosci. Abstr.* 49:482.24, 2019.
9. * Mazzitelli, M., Neugebauer, V. Group II metabotropic glutamate receptors modulate synaptic transmission in CRF-CeA neurons in an arthritic pain model. *Soc. Neurosci. Abstr.* 49:482.25, 2019.
10. * Yakhnitsa, V.A., Kiritoshi, T., Neugebauer, V. Phenotypic differences in potassium (SK) channel dysfunction in the amygdala in a rat model of neuropathic pain. *Soc. Neurosci. Abstr.* 49:482.26, 2019.
11. * Hossain, M.A., Ji, G., Abbruscato, T.J., Neugebauer, V., German, N.A. Development of selective kappa opioid receptor antagonist for the treatment of chronic neuropathic pain. *Soc. Neurosci. Abstr.* 49: 661.07, 2019.
12. * Arandia, G., Boles, A., Lopes, V., Neugebauer, V. Diabetes as a Risk Factor for Mild Cognitive Impairment in Older Residents of Rural West Texas. 71st Annual Scientific Meeting of The Gerontological Society of America (GSA). *Innovation in Aging* 3, S1: 860, 2019.

Presentations

1. Neugebauer, V. "Behavioral assessment in preclinical pain models". Neuroscience School of Advanced Studies, Venice, Italy.
2. Neugebauer, V. "Brain activity measurements in preclinical pain models". Neuroscience School of Advanced Studies, Venice, Italy.
3. Neugebauer, V. "Phenotypic differences in neuropathic pain - role of the amygdala". Topical workshop proposal (566495: Active roles of amygdala plasticity in neuropathic pain in diabetes and nerve injury models), 7th International Congress for Neuropathic Pain, London, UK.
4. Neugebauer, V. "Amygdala plasticity and pain". Center for Biomedical Research Excellence for the Study of Pain and Sensory Function, University of New England, Biddeford, ME.
5. Neugebauer, V. "Novel opioid actions in the amygdala". Center of Excellence for Translational Neuroscience and Therapeutics, Collaboration across Pain Science and Practice, TTUHSC, Lubbock, TX.
6. Neugebauer, V. 03-29-2019 "Amygdala plasticity and pain". Department of Biological Sciences, Duquesne University, Pittsburgh, PA.
7. Neugebauer, V. 03-27-2019 "Amygdala plasticity and pain". Pittsburgh Center for Pain Research, University of Pittsburgh, Pittsburgh, PA.

Other Scholarly Activity

1. R01 NS109255 – NIH/NINDS. "Pronociceptive and antinociceptive opioid mechanisms in the central nucleus of the Amygdala". MPI, Edita Navratilova (Contact), Guangchen Ji Co-I, Volker Neugebauer. Total costs: \$2,544,148

2. R01 AA027096 – NIH/NIAAA 07/01/19 - 06/30/23 “The neuroimmune model of excessive alcohol consumption: Transition to Alcohol Use Disorder”. PI, Igor Ponomarev. Co-I, Volker Neugebauer. Total costs: \$2,868,750 (original start date, 09/10/2018; transferred to TTUHSC with \$573,750/year on 07/01/19)
3. R01 NS038261 - NIH/NINDS “Amygdala Pain Mechanisms”. PI, Volker Neugebauer
Total costs: \$1,673,440 (\$334,688/year).
4. R01 NS106902 – NIH/NINDS. “Stress-induced descending facilitation from amygdala kappa opioid receptors in functional pain” PI, Volker Neugebauer PI (Contact), Frank Porreca (University of Arizona) Total costs: \$ 2,740,180 (TTUHSC subcontract, \$1,295,245; \$259,049 /year)
5. PN-CTNT 2018-12 LSVNBAW 12/1/18 - 11/30/19 Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC. “Tai Chi for pain management: a pilot mechanistic study”. PI, Volker Neugebauer. PI (Contact), Leslie Shen Total costs: \$18,000

OLDEWAGE-THERON, WINA

Publications

1. Theophilus RT, Miller M, Oldewage-Theron WH, Dawson J. The winning weaning food (WWF): The development of a complementary food for food-insecure infants and young children in Malawi. *Nutrients*, 2019; 11: 2292. 17 pages. <https://www.doi.org/10.3390/nu/1102292>.
2. Jamshidi-Naeini Y, Bavi AK, Egal A, Oldewage-Theron WH. Hemoglobin and ferritin concentrations are positively associated with blood pressure and hypertension risk in older adults: a retrospective cross-sectional study, Sharpeville, South Africa. *Asia Pacific Journal of Clinical Nutrition*, 2019;28(3): 533-543. <http://apjcn.nhri.org.tw/server/APJCN/28/3/533.pdf>
3. Ghvanidze S, Velikova N, Dodd T, Oldewage-Theron WH. Are sustainable consumers health conscious? A segmentation study of wine consumers. *Journal of Food Products Marketing*, 2019; 25(6): 24 pages. <https://doi.org/10.1080/10454446.2019.1640160>
4. Abu B, Oldewage-Theron WH. Food insecurity among college students in West Texas. *British Food Journal*, 219;121(3): 738-754. <https://doi.org/10.1108/BFJ-12-2018-0804>
5. Egal A, Oldewage-Theron WH. Extruded food products and their potential impact on food and nutrition security. *South African Journal of Clinical Nutrition*, 2019;2 pages. <https://doi:10.1080/16070658.2019.1583043>
6. Saha S, Abu B, Oldewage-Theron WH, Egal A. Available food options at local shops in relation to food insecurity among older adults in Sharpeville, South Africa. *African Journal of Food, Agriculture, Nutrition and Development*, 2019;19(2): 14500-14516. Mar 20-19. <https://doi.10.18697/ajfand.85.18035>

Presentations

1. Oldewage-Theron WH, Egal A, Grobler C. 2019. Cardiovascular risk factors and dietary intakes in 6-18 year old children from Rural Eastern Cape, South Africa. *Journal of the Academy of Nutrition and Dietetics*, 119(9): A-20.
2. Oldewage-Theron WH, Morales S, Egal A. 2019. Impact of a Soy Education Intervention on Knowledge of Smallholder South African Soy Farmers. *Journal of Nutrition Education and Behavior*, 51(7S): S65.
3. Saha S, Oldewage-Theron WH. 2019. Behavior-Specific Nutrition Education Intervention Improves Fruit and Vegetable Preference among Elementary School Children. *Journal of Nutrition Education and Behavior*, 51(7S): S57.
4. Miller M, Oldewage-Theron WH. 2019. Nutrition Education Needs Assessment of Farmers Market Participants in Lubbock, Texas. *Journal of Nutrition Education and Behavior*, 51(7S): S114.

Other Scholarly Activity

1. Texas Tech University College of Human Sciences 2018-2019 Undergraduate Research Experience grant to support Carter Janes (undergraduate student) (2018-2019) (Advisor)
US\$750.00
2. Texas Tech University VPR Open Access Publication Initiative award for publishing in “Nutrients” (PI 100%)
US\$1,000
3. Texas Tech University College of Human Sciences 2018-2019 Undergraduate Research Experience grant to support Jennifer N Rivera (undergraduate student) (2019-2020) (Advisor)
US\$750.00

PALMER, TY

Publications

1. Palmer T B (2019). Acute effects of constant-angle and constant-torque static stretching on passive stiffness of the posterior hip and thigh muscles in healthy, young and old men. *Journal of Strength and Conditioning Research*, 33(11): 2991-2999.
2. Palmer TB, Pineda JG, Cruz MR, Agu-Udemba CC (2019). Duration-dependent effects of passive static stretching on musculotendinous stiffness and maximal and rapid torque and surface electromyography characteristics of the hamstrings. *Journal of Strength and Conditioning Research*, 33(3), 717-726.
3. Palmer TB, Thiele RM (2019). Passive stiffness and maximal and explosive strength responses after an acute bout of constant-tension stretching. *Journal of Athletic Training*, 54(5), 519-526.

Presentations

Other Scholarly Activity

PARK, OAK HEE

Publications

1. Yuan J, Yi S, Williams H, Park O (2019). US Consumers' perceptions of imperfect "Ugly" produce. *British Food Journal*, 121(11), 2666-2682. Corresponding Author
2. Jayarathne S, Stuld AJ, Park O, Kim JH, Thompson L, Moustaid-Moussa N (2019). Protective Effects of Anthocyanins in Obesity-Associated Inflammation and Changes in Gut Microbiome. *Molecular Nutrition and Food Research*, 63(20), 1900149.
3. Murimi M, Nguyen B, Moyeda-Carabaza AF, Lee H, Park O (2019). Factors that contribute to effective online nutrition education interventions: A systematic review. *Nutrition Reviews*, 77(10), 663-690.

Presentations

Other Scholarly Activity

1. TTU-COHS-Come N' Go Grant; Great Greens (GG): Innovative Nutrition and Gardening Curriculum for Obesity Prevention among Early Adolescent; 1-year project (10/15/09-10/14/2020); Expected Total Amount: \$5,000; Role: PI (100% Credit)

PUNYANUNT-CARTER, NARISSRA

Publications

1. Niehuis S, Reifman A, Weiser D, Punyanunt-Carter N, Flora J, Arias Sanchez V, Oldham C. (2019). Guilty pleasure? Communicating sexually explicit content on dating-apps and disillusionment with app usage. *Human Communication Research*, 46(1).
2. Dibble, J. S., Drouin, M., Punyanunt-Carter, N. (2019). An empirical comparison of back burners, hookups, and friends with benefits relationships in young adults. *Communication Research Reports*, 36(5), 415-425.
3. Punyanunt-Carter N, Oviedo M, Melhem S (2019). College Students' Perceptions of Television Portrayals of Hispanics. *Qualitative Research Reports in Communication*. <https://doi.org/10.1080/17459435.2019.1650817>
4. Punyanunt-Carter N, LaFreniere JR, Norman MS, Colwell M (2019). Analyzing college students' family communication patterns and interpersonal communication motives for communicating. *Southern Communication Journal*, 84, 219 - 232. <https://doi.org/10.1080/1041794X.2019.1641544>
5. Wrench J, Punyanunt-Carter N, Garcia A (2019). Understanding college students' perceptions regarding mindfulness the impact on intellectual humility, faith development, religious communication apprehension, and religious communication. *Journal of Religion and Health*.
6. Melhem SS, Punyanunt-Carter N (2019). Using Cultivation Theory to Understand American College Students' Perceptions of Arabs in the Media. *Journal of Muslim Minority Affairs*, 39(2), 259-271. <https://doi.org/10.1080/13602004.2019.1625258>
7. Punyanunt-Carter N (2019). Dealing with the Development of Children's Ethnic Identity in Interracial Marriages (with an Asian parent and non-Asian parent). In Sarah Symonds-LeBlanc (Ed.), *Casing the Family: Theoretical and Applied Approaches to Understanding Family Communication*.

Presentations

1. Dubuque IA, Kendall-Hunt J, Punyanunt-Carter NM (Presenter & Author), Norman MS, Colwell M. (Author Only), National Communication Association, "Viewer perceptions of stepfamilies, stepfathers, and stepmothers in media," National, peer-reviewed/refereed. (November 2019).
2. Punyanunt-Carter N. Texas Tech Terry Scholars, Lubbock, Texas, "How to Handle Difficult People." (March 6, 2019).

3. Punyanunt-Carter N, Raiders who Rock Awards Ceremony, Lubbock, Texas. (April 9, 2019).
4. Dibble J, Drouin M, Punyanunt-Carter N. National Communication Association, Baltimore, Maryland, "Widening the Rainbow of Human Sexuality: An Empirical Comparison of Back Burners, Hookups, and Friends with Benefits Relationships in Emerging Adults.," peer-reviewed/refereed. (November 2019).
5. Rasmussen EE, Punyanunt-Carter N, Shimkowski J, Norman MS, Kimball T. International Communication Association, International Communication Association, Washington DC, "The serially mediated relationship between emerging adults' social media use and well-being," peer-reviewed/refereed. (May 2019).
6. Punyanunt-Carter N, Wrench J, De La Cruz JJ. Partnership for Progress on the Digital Divide 2019, Washington, D.C., "Understanding College Students' Perceptions Regarding Tinder motives, Dating Apps, Trolling Behavior, and Communication Apprehension.," peer-reviewed/refereed. (May 2019).
7. Niehuis S, Weiser D, Reifman A, Punyanunt-Carter N, Flora J, Arias Sanchez V, Oldham C. Western Communication Association, Seattle, WA, "Guilty pleasure? Communicating sexually explicit content on dating apps and attitudes toward the self, other people, and marriage," Regional, peer-reviewed/refereed. (February 2019).

Other Scholarly Activity

RIVAS, ERIC

Publications

1. Newmire DE, Rivas E, Deemer SE, Willoughby DS, Ben-Ezra V. (2019). The Impact of a Large Bolus Dose of L-leucine and L-isoleucine on Enteroendocrine and Pancreatic Hormones, and Glycemia in Healthy, Inactive Adults. *Nutrients*, 11(11).
2. Rivas E, Crandall CG, Suman OE, Moustaid-Moussa N, Ben-Ezra V. (2019). Exercise heat acclimation causes post-exercise hypotension and favorable improvements in lipid and immune profiles: A crossover randomized controlled trial. *Journal of thermal biology*, 84, 266-273.
3. Rivas E, Allie KN, Salvador PM (2019). Progressive dry to humid hyperthermia alters exercise cerebral blood flow. *Journal of thermal biology*, 84, 398-406.
4. Rivas E, Huynh HM, Galasseti PR (2019). Obesity Affects Submaximal Oxygen Uptake-Heart Rate Relationship and Exercise Economy Differently in Pre- and Post-pubescent Boys and Girls. *International journal of exercise science*, 12(3), 748-763.
5. Borgman MA, Zaar M, Aden JK, Schlader ZJ, Gagnon D, Rivas E, Kern J, Koons NJ, Convertino VA, Cap AP, Crandall C. (2019). Hemostatic responses to exercise, dehydration, and simulated bleeding in heat-stressed humans. *American journal of physiology. Regulatory, integrative and comparative physiology*, 316(2), R145-R156.

Presentations

Poster (*mentored undergraduate and #graduate students)

1. Allie K*, Kilpatrick J#, Salvador P*, Rivas E Low intensity exercise has greater acute vascular benefits for reducing arterial stiffness in hot compared to neutral conditions Texas Regional Chapter of the American College of Sports Medicine 2019 Ft Worth TX.
2. Kilpatrick J#, Salvador P*, Allie, K*, Rivas E Exercise cerebral blood flow hemodynamics differ in hot dry and humid conditions Texas Regional Chapter of the American College of Sports Medicine 2019 Ft Worth TX.
3. Salvador P*, Kilpatrick J#, Allie, K*, Rivas E Skin Temperature and High Dew Point in Hot Environments Affects Self-Paced Exercise Texas Regional Chapter of the American College of Sports Medicine 2019 Ft Worth TX.
4. Allie, K*, Kilpatrick J#, Salvador P*, Rivas E Systolic Pressure Post-Maximal Exercise is Associated with Arterial Stiffness and Baroreflex Sensitivity 2019 Experimental Biology, Orlando, FL
5. Kilpatrick J#, Allie, K*, Suman OE, Rivas E Boys with Obesity have Attenuated Cardiorespiratory Fitness Independent of Fat Mass 2019 American College of Sports Medicine, Orlando, FL
6. Rivas E, Suman OE, Ben-Ezra, V Heat Acclimation Causes Profound Post-Exercise Hypotension and Favorable Improvements in Lipid and Immune Profiles 2019 American College of Sports Medicine, Orlando, FL

Other Scholarly Activity

Year	Title of Current Research or Grant	Granting Agency	Amount \$	Chief Investigators & Faculty Members in order	Percent Contribution
2019	Effect of Pulsatile Pressure and Long Sleep Duration on Cerebral Vascular Function	American Heart Association	\$197,451	Gonzales, J. (Principal), Rivas, E. (Co-Principal), Vellers, H. (Co-Principal)	10%

2019	Adiposity awareness study: A randomized controlled trial to increase physical activity in normal weight obesity	American Heart Association	\$106,532	Wijayatunga, N. (Principal), Dhurandhar, E. (Co-Principal), Kim, Y. (Co-Principal), Binks, M. (Co-Principal), Day, A. (Co-Principal), Rivas, E. (Co-Principal)	10%
2019	Mechanistic study of omega 3s and heat therapy on vascular function	American Physiological Society	\$19,535	Rivas, E. (Principal), Moustaid-Moussa, N. (Co-Principal), Massett, M. (Co-Principal)	30%

Active Non-Funded Research

Status	Research Type	Working Title	Collaborators
Current	Scholarly	High-intensity exercise and cerebral blood flow	Gonzales, J
Current	Scholarly	Assessment of vascular health, fitness, and movement in young adults with autism spectrum disorder	Harry, J., Vellers, H.

SCHLABRITZ-LUTSEVICH, NATALIA

Publications

1. Gandhi K, Montoya-Urbe V, Martinez S, David S, Jain B, Shim G, Li C, Jenkins S, Nathanielsz P, Schlabritz-Loutsevitch N. Ontogeny and programming of the fetal temporal cortical endocannabinoid system by moderate maternal nutrient reduction in baboons (*Papio spp.*) *Physiological reports*, 2019/3, VOLUME 7, ISSUE 6, E14024
2. Schlabritz-Loutsevitch N, Carrillo M, Li C, Nathanielsz P, Maguire C, Maher J, Dick Jr, E, Hubbard G, Stanek J. *Journal of medical primatology*, 2019/2 VOLUME 48, Issue 1, pages 68-73
3. Higgins PB, Folli F, Andrade MCR, Foster J, Mattern V, Paroni R, Schlabritz-Loutsevitch N, et al. *Acta diabetologica*. 2019/2/6. *Acta diabetologica*. Volume 56, Issue 2, Pages 227-236
4. Kodeih H, Maher JE, Moore L, Schlabritz-Lutsevich N (2019). The management of a pregnant patient with malaria in West Texas. *The Southwest Respiratory and Critical Care Chronicles* 7(28): 47-52.

Presentations

1. A Fa, J Maher, K Gandhi, E Esquivel, B Gudenkauf, K Alpadi, K Shreyder and Natalia Schlabritz-Loutsevitch. Maternal Obesity in Early Pregnancy Is Associated with the Decreased Active IGF-I Availability and Increased Leptin Concentrations. Laura Bush Symposium for women's health, Lubbock, October 25th, 2019.
2. Jennifer Gray, DO, PGY-2, Shuheung (Steven) Lee, MD, Shannon Corbitt Natalia Schlabritz-Lutsevich and Gary Ventolini. Obesity related vaginal discharge in third trimester of pregnancy: A protein pathway analysis. FIRST PLACE IN THE BASIC SCIENCE CATEGORY.
3. West, Andy (MS3), (presenting), Lisa Platner, Gracie Flores, Vani Selvan, Juan Carlos Lopez-Alvarenga, Stephanie Moses, Natalia Schlabritz-Lutsevich and Elisa Brown. Measurement of Changes in Student Attitude, Self-Efficacy, and Intent after Participation in an Abbreviated Abstinence-Plus Sex Education Curriculum
5. Suheung Lee, James Maher, Lee David Moore, Jennifer Gray, Glenn Bennion, Guangchen Ji, Shane Scoggin, Naima Moustaid-Moussa, Natalia Schlabritz-Lutsevich. ADIPOSOMES-PLACENTA INTERACTION IN MATERNAL OBESITY. Invited presentation: center of excellence for translational neuroscience and therapeutics (April 11th 2019). Fetal programming of endocannabinoid deficiency. N. Schlabritz-Lutsevich
6. SAT-LB045 Alice Fa, James Maher, Kushal Ghandi, Esteban Esquivel, Brent Gudenkauf, KANNAN ALPADI, Katherine Shreyder, Natalia Schlabritz-Lutsevich. Maternal Obesity in Early Pregnancy Is Associated with the Decreased Active IGF-I Availability and Increased Leptin Concentrations. *Journal of the Endocrine Society*, Volume 3, Issue, Supplement_1, Pages. SAT-LB045. Endocrine Society meeting 2019/4/30
7. Society for studying reproduction, March 2019 (Paris, France). Selective Expression of 2-AG (2-Arachidonoyl Glycerol) Pathway in Mammary Gland Tissues. Brent Gudenkauf, Kushal Gandhi, Nadezhda German, Ashraf

Other Scholarly Activity

1. American Heart Association, August 13, 2019, Schlabritz-Lutsevich N (Co-Investigator), Chemitiganti R (Principal Investigator), Sethi P (Co-Investigator), IMPACT OF GLP-1 RECEPTOR AGONIST IN COMBINATION WITH MEDITERRANEAN DIET ON MYOCARDIAL METABOLISM AND FUNCTION IN PRE-DIABETES and Type 2 Diabetes Mellitus
2. NIH, RO1 June 5, 2019, Schlabritz-Lutsevich N (Principal Investigator), German N (Co-Investigator), FETAL ENDOCANNABINOID DEFICIENCY SYNDROME AS A NOVEL MECHANISM OF DEVELOPMENTAL PROGRAMMING.
3. DOD Schlabritz-Lutsevich N (Principal Investigator), Protective fetal sex-specific effect of maternal pre-eclampsia on breast cancer development
4. NIH-R21 Schlabritz-Lutsevich N (Principal Investigator), Ventolini G (Co-Principal Investigator), Hamood AN (Co-Principal Investigator), Mechanism of Vulvodinia: Endocannabinoid Deficiency Syndrome.

SHEN, CHWAN-LI (LESLIE)

Publications

1. *Chung E, Campise SN, Joiner HE, Tomison MD, Kaur G, Dufour JM, Cole L, Ramalingam L, Moustaid-Moussa N, Shen CL (corresponding author). Effect of annatto-extracted tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle metabolism in obese male mice. *Journal of Nutritional Biochemistry*. 2019; 67: 36-43.
2. *Mo H, Jeter R, Bachmann A, Yount ST, Shen CL, Yeganehjoo H. The potential of isoprenoids in adjuvant cancer therapy to reduce adverse effects of statins. *Frontier in Pharmacology*. 2019 Jan 4;9:1515. doi: 10.3389/fphar.2018.01515. eCollection 2018
3. *Shen CL (corresponding author), Mo H. (2019) Effects of dietary tocotrienol on age-related bone health. *The Spectrum (published by the Healthy Aging dietetic practice group of the Academy of Nutrition and Dietetics)*. Spring issue, 1-6.
4. *Zhang J, Nie S, Zu Y, Abbasi M, Cao J, Li C, Wu D, Labib S, Brackee G, Shen CL, Wang S. Anti-atherogenic effects of CD36-targeted epigallocatechin gallate-loaded nanoparticles. *Journal of Controlled Release* 2019;303:263-273
5. *Chung C, Grue KA, Kaur G, Mallory B, Serrano CR, Ullevig SL, Kottapalli KR, Lee SC, Dufour J, Shen CL, Umeda M. Maternal exercise before and during pregnancy alleviates metabolic dysfunction associated with high-fat diet in pregnant mice, without significant changes in gut microbiota. *Nutrition Research* 2019;69:42-57.

Articles and case reports in press

1. *Shen CL, Zhang Y, Mo H, Chyu MC, Tang L, Wang JS. Green tea catechins and tocotrienols in bone protection: evidence from preclinical studies. Book chapter.

Presentations

Oral presentation:

1. Shen CL. "Establishing the Center of Excellence for Integrative Health (CEIH) at Texas Tech University Health Sciences Center (TTUHSC). Executive Leadership in Academic Medicine (ELAM). May 1, 2019.
2. Shen CL. "Career path in integrative medicine. Endowed Lecture Series". Therapeutic Innovations & Integrative Medicine Club, School of Medicine, September 12, 2019. Lubbock, TX.
3. Shen, CL. "Clinical trials of FDA-IND natural bioactive components for bone health". Annual meeting of Society of Clinical Research Associates (SoCRA), September 27, 2019. Orlando, FL.
4. Shen CL. "Career path in integrative medicine. Endowed Lecture Series". School of Health Professions, October 4, 2019. Lubbock, TX.
5. Shen, CL. "The beneficial effect of tea on musculoskeletal system". Taiwanese Osteoporosis Association. October 20, 2020, Taipei, Taiwan.
6. Shen CL. "My career path in integrative medicine". Department of Food and Nutrition, Providence, Taichung, Taiwan. October 21, 2019.

Poster presentation at annual meeting:

1. Shen CL, Kaur G, Dufour J, Ramalingam L, Chung E, Moustaid-Moussa N, Cao JJ. Effect of geranylgeraniol and green tea polyphenols on high-fat-diet-induced bone deterioration in male B6 mice. Nutrition 2019 (Annual Meeting of American Society for Nutrition), June 7-11, 2019. Baltimore, MD.

2. Elmassy MM, Hamood A, Shen CL. Anatto-extracted tocotrienol and green tea polyphenols reshape the gut microbiome of obese male mice. ObesityWeek 2019 (Annual Meeting of The Obesity Society), November 6, 2019. Las Vegas, NV.

Other Scholarly Activity

1. Title: Treating Vitamin D insufficiency in community dwelling elderly to improve arterial stiffness. Peiris A (PI). Shen CL (collaborator). Funding agency: School of Medicine, TTUHSC. The goal of this study is to evaluate one-year vitamin D supplementation on the CVD of elderly. \$20,000. 7/1/2018-6/30/2020.
2. Title: Utilizing tocotrienols to prevent the formation of islet amyloid deposits- a novel treatment for diabetes mellitus. Kaur Gurvinder (PI). Co-PI: Shen CL, Dufour J, Cornwell G. Funding agency: LWBIWH/UMC Women's Health grant program. The goals of this study is test the novel ideal of utilizing tocotrienol to prevent islet amyloid deposits. \$20,000. 10/2017-9/2019.
3. Title: Actions of dietary tocotrienols on obesity: a pilot clinical study. Shen CL (PI). Aryaie A (co-PI). Lee J (co-I), Tinsley G (co-I), Watkins BA (co-I). Funding agency: School of Medicine, Texas Tech University Health Sciences Center. The goal of this pilot study is to test a dietary tocotrienol supplementation for feasibility, and to quantitatively assess its potential anti-obesity effects on postmenopausal women. \$20,000. 7/1/2018-6/30/2019.
4. Title: Dietary tocotrienol (vitamin E isomer) supplement for postmenopausal women: aspects of metabolomics and gut microbiome. Shen CL (PI). Funding agency: Laura W. Bush Institute for Women's Health. The goal of this study is to test dietary tocotrienol supplementation on metabolites and gut microbiome of obese women. \$10,000. 8/1/2018-7/31/2019.
5. Title: Effect of ginger extract on pain management: an animal pilot study. Shen CL (PI). Funding agency: Department of Pathology. The goal of this study is to collect preliminary data on how ginger extract may help with pain reduction, in terms of pain behaviors of rats, in the spinal nerve ligation pain model. \$5,000. 1/1/2019-12/31/2019.
6. Title: Tai Chi for pain management: a pilot mechanistic study. Funding agency: Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC. Shen CL (PI). Neugebauer V (Co-PI). Watkins BA (Co-PI). Brismee JM (Co-I), Zumwalt M (Co-I), Lee J (Co-I), Chyu M-C (Co-I), Luk H-Y (Co-I), O'Boyle M (Co-I). The goal of this study is to collect preliminary data on how Tai Chi may help with pain management of postmenopausal women with knee osteoarthritis and explore the molecular mechanism. \$18,000 from CTNT. \$6,000 matching fund Texas Tech University Neuroimaging Institute (TTNI). Study 12/1/2018-11/30/2019.

Extramural awards funded

Local but not from TTUHSC

1. Title: Tocotrienols supplementation for postmenopausal women with sarcopenia: a pilot study. Shen CL (PI). Culberson, J (co-I), Palmer T (co-I), Yang, SP (co-I), Luk HY (co-I), Robyn Richmond (Co-I), Watkins BA (co-I). Funding agency: South Plains Foundation. The goal of study is to test the hypothesis that tocotrienol supplementation improves muscular outcomes in postmenopausal women with sarcopenia, and to explore the underlying mechanisms. \$15,000. 9/1/2018-8/31/2019.
2. Title: Levels of vitamins D and infection risk in pediatric patients undergoing chemotherapy. Al-Rahawan (PI). Shen CL (Co-I), Urias E (co-I), Lee J (Co-I), Singhal E (Co-I). Funding agency: South Plains Foundation. The goal of study is to measure the serum levels of vitamin D in children undergoing chemotherapy and track changes after 6 months and to investigate the relationship between vitamin D levels and the incidence of fever as a marker for infection in this population. 9/1/19-8/31/20.
3. Title: Actions of dietary tocotrienols on obesity: ARN supplemental fund. Shen CL (PI). Funding agency: American River Nutrition, Inc., Hadley, MA. The goal of study is to test the hypothesis that tocotrienol supplementation improve lipid profiles and modify endocannabinoid and oxylipins in obese postmenopausal women. \$70,000. 11/1/2018-10/31/2020.
4. Title: Tocotrienols supplementation for postmenopausal women with low muscle strength: ARN supplemental fund. Shen CL (PI). Funding agency: American River Nutrition, Inc., Hadley, MA. The goal of study is to test the hypothesis that tocotrienol supplementation modify endocannabinoid and oxylipins in postmenopausal women with low muscle strength. \$30,000. 11/1/2018-10/31/2020.

SHIN, ANDREW C

Publications

1. Siddik MAB, Shin AC. Recent progress on branched-chain amino acids in obesity, diabetes, and beyond. *Endocrinology and Metabolism* (Invited Review), 2019 Sep; 34(3): 234-246.
2. Shah H, Shin AC. Meal patterns after bariatric surgery in mice and rats. *Appetite* (Special Issue on Bariatric Surgery – Invited Review), 2019 June 29 [Epub ahead of print].

3. Patkar PP, Hao Z, Mumphrey MB, Townsend BL, Berthoud HR, Shin AC. Unlike calorie restriction, Roux-en-Y gastric bypass surgery does not increase hypothalamic AgRP and NPY in mice on a high-fat diet. *International Journal of Obesity – Nature*, 2019 Feb (2018 Dec Epub ahead of print).
4. Shin AC, MohanKumar SMJ, Balasubramanian P, Sirivelu MP, Linning K, Woolcock A, James M, MohanKumar PS. Responsiveness of HPA axis to leptin is impaired in diet-induced obese rats. *Nutrition & Diabetes - Nature*, 2019 Mar; 9(1): 10

Presentations

Oral

1. 2019 Seminar, Texas Tech University Health Sciences Center, Department of Internal Medicine. *Potential link between BCAAs and Alzheimer's disease*
2. 2019 Speaker, Korean Neuroendocrine Study Group, Incheon, South Korea. *CNS control of BCAAs and bariatric surgery*
3. 2019 Seminar, Asan Medical Center, Department of Medicine, Seoul, South Korea *Mouse bariatric surgery techniques*
4. 2019 Seminar, Seoul National University, Department of Functional Neuroanatomy, Seoul, South Korea. *Link between BCAA metabolism and Roux-en-Y gastric bypass surgery.*
5. 2019 Seminar, Yonsei University, Taste Sensing Division, Department of Dentistry, Seoul, South Korea. *CNS control of BCAAs and bariatric surgery*
6. 2019 Speaker, McNair Scholars Program, TTU, Lubbock, Texas, USA
7. 2019 Speaker, 7th Seoul International Congress of Endocrinology and Metabolism, Seoul, South Korea. *Divergent roles of AgRP and POMC neurons in the control of adipose tissue metabolism*
8. Harkins C, Patkar PP, Hao Z, Berthoud HR, Shin AC. Roux-en-Y gastric bypass (RYGB) surgery, but not caloric restriction, enhances reward-related genes in the ventral tegmental area in high-fat fed mice. ObesityWeek, Las Vegas, NV, November 2019
9. Akheruzzaman M, Shin AC, Hegde V, Dhurandhar NV. Reduced endogenous insulin due to improved glycemic control concomitantly impacts lipid metabolism. ObesityWeek, Las Vegas, NV, November 2019
10. Siddik MAB, Zabet-Moghaddam M, Hegde V, Shin AC. Branched-chain amino acid metabolism is impaired in mice and humans with Alzheimer's disease. American Society for Nutrition Conference, Baltimore, MD, June 2019

Poster:

CONFERENCE POSTER PRESENTATIONS

1. Siddik MAB, Zabet-Moghaddam M, Hegde V, Shin AC. Alzheimer's disease is associated with impaired hepatic BCAA metabolism. Obesity Research Institute Annual Meeting, TTU, 2019.
2. Siddik MAB, Zabet-Moghaddam M, Hegde V, Shin AC. Branched-chain amino acids (BCAAs) – a new player in Alzheimer's disease. Alzheimer's Association International Conference, Los Angeles, CA, July 2019.
3. Siddik MAB, Zabet-Moghaddam M, Hegde V, Shin AC. Branched-chain amino acid metabolism is impaired in mice and humans with Alzheimer's disease. 18th Annual Graduate Student Research Poster Competition, Texas Tech University, March 2019.
4. Harkins C, Patkar PP, Berthoud HR, Shin AC. Roux-en-Y gastric bypass (RYGB) surgery restores reward-related genes in the mesolimbic pathway in diet-induced obese mice. Undergraduate Research Conference, TTU, April 2019

Other Scholastic Activities

1. National Science Foundation (NSF) National I-Corps. Novel diagnostic tool and compound repurposing for early detection and alleviation of Alzheimer's disease, 2019 (PI: Andrew C. Shin).
2. National Science Foundation (NSF) Regional I-Corps Program Repurposing a compound to treat Alzheimer's disease, 2019 (PI: Andrew C. Shin)

SONG, HUAXIN

Publications

1. Song H, Hughes JR, Turner RT, Iwaniec UT, Doerge DR, Helferich WG (2019). (±)-Equol does not interact with genistein on estrogen-dependent breast tumor growth. *Food and Chemical Toxicology*, doi.org/10.1016/j.fct.2019.110979
2. Ashcraft AS, Owen DC, Johnson K, Song H (2019). LONG TERM CARE FEASIBILITY OF NURSING HOME LVNS USING AN ALGORITHM-GUIDED ASSESSMENT SUPPORT TOOL. *Innovation in Aging*, 3(Supplement_1), S506-S507.

Presentations

Other Scholarly Activity

TINSLEY, GRANT

Publications

1. Moore ML[†], Benavides ML[†], Dellinger JR[†], Adamson BT[†], Tinsley GM^{*}. Segmental Body Composition Evaluation by Bioelectrical Impedance Analysis and Dual-Energy X-Ray Absorptiometry: Quantifying Agreement Between Methods Clinical Nutrition (Accepted). JCR Impact Factor²⁰¹⁸: 6.402; Rank: 6/87 (Q1) in Nutrition & Dietetics category.
2. Fedewa MV, Nickerson BS, Tinsley GM, Esco MR, Dunbar EG, Boucher AG, DeLeon RM. Examining Race-Related Error in Two-Compartment Models of Body Composition Assessment: A Systematic Review and Meta-Analysis. Journal of Clinical Densitometry (In Press) 21 (4): 541-549. JCR Impact Factor²⁰¹⁸: 2.184; Rank: 107/145 (Q3) in Endocrinology & Metabolism category. doi.org/10.1016/j.jocd.2019.10.002
3. Tinsley GM^{*}, Moore ML[†], Dellinger JR[†], Adamson BT[†], Benavides ML[†]. Digital anthropometry via three-dimensional optical scanning: evaluation of four commercially available systems. European Journal of Clinical Nutrition (In Press). JCR Impact Factor²⁰¹⁸: 3.114; Rank: 37/86 (Q2) in Nutrition & Dietetics category. doi.org/10.1038/s41430-019-0526-6
4. Tinsley GM^{*}, Moore ML[†], Silva AM, Sardinha LB. Cross-sectional and longitudinal agreement between two multifrequency bioimpedance devices for resistance, reactance, and phase angle values. European Journal of Clinical Nutrition (In Press). JCR Impact Factor²⁰¹⁸: 3.114; Rank: 37/86 (Q2) in Nutrition & Dietetics category. doi.org/10.1038/s41430-019-0496-8
5. Tinsley GM^{*}, Moore ML[†], Graybeal AJ[†]. Precision of Dual-Energy X-Ray Absorptiometry Reflection Scans in Muscular Athletes. Journal of Clinical Densitometry (In Press). JCR Impact Factor²⁰¹⁸: 2.184; Rank: 107/145 (Q3) in Endocrinology & Metabolism category. doi.org/10.1016/j.jocd.2018.09.005
6. Graybeal AJ[†], Moore LM[†], Cruz MR[†], Tinsley GM^{*}. Body Composition Assessment in Male and Female Bodybuilders: A Four-Compartment Model Comparison of DXA and Impedance-Based Devices. Journal of Strength and Conditioning Research (Ahead-of-Print). JCR Impact Factor²⁰¹⁸: 3.017; Rank: 18/83 (Q1) in Sports Sciences category. doi.org/10.1519/JSC.0000000000002831
7. Schoenfeld BJ, Nickerson BS, Wilborn CD, Urbina SL, Hayward SB, Krieger J, Aragon AA, Tinsley GM. Comparison of Multifrequency Bioelectrical Impedance Vs. Dual-Energy X-Ray Absorptiometry For Assessing Body Composition Changes After Participation In A 10-Week Resistance Training Program. Journal of Strength and Conditioning Research (Ahead-of-Print). JCR Impact Factor²⁰¹⁸: 3.017; Rank: 18/83 (Q1) in Sports Sciences category. doi.org/10.1519/JSC.0000000000002708
8. Grgic J, Garofolini A, Pickering C, Duncan MJ, Tinsley GM, Del Coso J. Isolated effects of caffeine and sodium bicarbonate ingestion on performance in the Yo-Yo test: A systematic review and meta-analysis. Journal of Science and Medicine in Sport (2020) 23:41-47. JCR Impact Factor²⁰¹⁸: 3.623; Rank: 12/83 (Q1) in Nutrition & Dietetics category. doi.org/10.1016/j.jsams.2019.08.016
9. Tinsley GM^{*}, Harty PS[†], Moore ML[†], Grgic J, Silva AM, Sardinha LB. Changes in total and segmental bioelectrical resistance are correlated with whole-body and segmental changes in lean soft tissue following a resistance training intervention. Journal of the International Society of Sports Nutrition (2019) 16:58. JCR Impact Factor²⁰¹⁸: 3.841; Rank: 9/83 (Q1) in Sport Sciences category; 23/87 (Q2) in Nutrition & Dietetics category. doi.org/10.1186/s12970-019-0326-3
10. Zaragoza J, Tinsley G, Urbina S, Villa K, Santos E, Juaneza A, Tinnin M, Davidson C, Mitmesser S, Zhang Z, Taylor L. Effects of acute caffeine, theanine and tyrosine supplementation on mental and physical performance in athletes. Journal of the International Society of Sports Nutrition (2019) 16:56. JCR Impact Factor²⁰¹⁸: 3.841; Rank: 9/83 (Q1) in Sport Sciences category; 23/87 (Q2) in Nutrition & Dietetics category. doi.org/10.1186/s12970-019-0326-3
11. Tinsley GM^{*}, Paoli A. Time-restricted eating and age-related muscle loss. Aging (2019) 11(20):8741- 8742. JCR Impact Factor²⁰¹⁸: 5.515; Rank: 42/193 (Q1) in Cell Biology category; 5/53 (Q1) in Geriatrics & Gerontology category. doi.org/10.18632/aging.102384
12. Tinsley GM^{*}, Moore ML[†], Graybeal AJ[†], Paoli A, Kim Y, Gonzales JU, Harry JR, VanDusseldorp TA, Kennedy DN[†], Cruz MR[†]. Time-restricted feeding plus resistance training in active females: a randomized trial. American Journal of Clinical Nutrition (2019) 110(3):628-640. JCR Impact Factor²⁰¹⁸: 6.568; Rank: 5/86 (Q1) in Nutrition & Dietetics category. doi.org/10.1093/ajcn/nqz126

13. Tinsley GM, Urbina S, Santos E, Villa K, Foster C, Wilborn C, Taylor L. A Purported Detoxification Supplement Does Not Improve Body Composition, Waist Circumference, Blood Markers, or Gastrointestinal Symptoms in Healthy Adult Females. *Journal of Dietary Supplements* (2019) 16(6):649-658. JCR Impact Factor²⁰¹⁸: N/A. doi.org/10.1080/19390211.2018.1472713
14. Tinsley GM^{*}, Trexler ET, Smith-Ryan AE, Paoli A, Graybeal AJ[†], Campbell BI, Schoenfeld BJ. Changes in Body Composition and Neuromuscular Performance Through Preparation, Two Competitions, and a Recovery Period in an Experienced Female Physique Athlete. *Journal of Strength and Conditioning Research* (2019) 33 (7): 1823–1839. JCR Impact Factor²⁰¹⁸: 3.017; Rank: 18/83 (Q1) in Sports Sciences category. doi.org/10.1519/JSC.0000000000002758
15. Tinsley GM^{*}, Nickerson BS. Exclusion of Trunk Region Reduces Biological Error but Increases Technical Error of DXA Lean Soft Tissue Estimates from Non-Fasted Assessments. *International Journal of Sport Nutrition and Exercise Metabolism* (2019) 29 (3): 309-314. JCR Impact Factor²⁰¹⁸: 2.217; Rank: 31/83 (Q2) in Sport Sciences category; 56/86 (Q3) in Nutrition & Dietetics category. doi.org/10.1123/ijsnem.2018-0132
16. Nickerson BS, Tinsley GM, Esco MR. Validity of Field and Laboratory Three-Compartment Models in Healthy Adults. *Medicine & Science in Sports & Exercise* (2019) 51 (5): 1032-1039. JCR Impact Factor²⁰¹⁸: 4.478; Rank: 6/83 (Q1) in Sports Sciences category. doi.org/10.1249/MSS.0000000000001876
17. Paoli A, Tinsley G, Bianco A, Moro T. The influence of meal frequency and timing on health in humans: the role of fasting, obesity, cardiovascular health, diabetes. *Nutrients* (2019) 11: 719. JCR Impact Factor²⁰¹⁸: 4.171; Rank: 16/86 (Q1) in Nutrition & Dietetics category. https://doi.org/10.3390/nu11040719
18. Tinsley GM^{*}, Graybeal AJ[†], Moore ML[†]. Resting metabolic rate in muscular physique athletes: validity of existing methods and development of new prediction equations. *Applied Physiology, Nutrition, and Metabolism* (2019) 44: 397-406. JCR Impact Factor²⁰¹⁸: 3.455; Rank: 13/83 (Q1) in Sports Sciences Category; 31/86 (Q2) in Nutrition & Dietetics category. doi.org/10.1139/apnm-2018-0412
19. Tinsley GM^{*}, Graybeal AJ[†], Moore LMT[†], Nickerson BS. Fat-free mass characteristics of muscular physique athletes. *Medicine & Science in Sports & Exercise* (2019) 51 (1): 193-201. JCR Impact Factor²⁰¹⁸: 4.478; Rank: 6/83 (Q1) in Sports Sciences category. http://www.doi.org/10.1249/MSS.0000000000001749

Presentations

Other Scholarly Activity

VELLERS, HEATHER

Publications

1. Vellers HL, Schmitt EE (2019). Chapter 11: Toxicant and Dietary Exposures as Unique Environmental Factors that Affect the Genetic Regulation of Activity. *Routledge Handbook of Sport and Exercise Systems Genetics*.
2. Snyder RJ, Verhein KC, Vellers HL, Burkholder AB, Randell SH, Garantziotis S, Kleeberger SR (2019). In Dr. Håkan Wallin (Ed.), *Multi-walled carbon nanotubes upregulate mitochondrial gene expression and trigger mitochondrial dysfunction in primary human bronchial epithelial cells*. (10th ed., vol. 13, pp. 1344-1361). England: Taylor & Francis Online. https://www.ncbi.nlm.nih.gov/pubmed/31478767 5 = Outstanding recognition in field, highly prestigious, refereed. Author's Contribution: 15%.

Presentations

1. Vellers, H.L. (Presenter Only), ENGL 5393: Grants and Proposals for the Academy and Industry, Lubbock, "Grant Writing in the Basic Sciences," Local. (November 4, 2019).
2. Vellers, H.L. (Presenter Only), Center of Excellence for Integrative Health Annual Member Meeting, Texas Tech Health Science Center, School of Pathology, Lubbock, "Genetics as a Predictor of how we Respond to Aerobic Exercise Training," Local. (May 16, 2019).
3. Vellers, H. L. (Presenter Only), 2019 TTU Obesity Research Institute Annual Meeting, Texas Tech University, Lubbock, "Mitochondrial DNA Sequence Variant Associations with Endurance Exercise Trainability," Local, published elsewhere. (May 8, 2019).
4. Vellers, H. L. (Presenter Only), 2019 Spring Obesity Research Seminar Series, Texas Tech University, Department of Nutritional Sciences, Lubbock, "Association between Mitochondrial DNA Sequence, Heteroplasmy, and Indels with Response to Aerobic Exercise Training," Local, published elsewhere. (February 4, 2019).
5. Vellers, H.L. (Presenter Only), Annual Departmental Teaching Workshop, Department of Kinesiology & Sport Management, TTU, Lubbock, "A Method to Enhance Student Accountability & Active Engagement during Class Discussions," Local. (August 23, 2019).

6. Vellers, H.L. (Presenter Only), Kinesiology Journal Club, Department of Kinesiology & Sport Management, TTU, Lubbock, "The Role of Mitochondrial DNA in Pain and Inflammation," Local. (March 27, 2019).
7. Vellers, H. L. (Presenter & Author), Verhein, K. C. (Author Only), Bouchard, C. (Author Only), Lightfoot, J. T. (Author Only), Kleeberger, S. R. (Author Only), National American College of Sports Medicine Conference, American College of Sports Medicine, Orlando, FL, "Association between Mitochondrial DNA Sequence and Endurance Training Adaptations," National, peer-reviewed/refereed, published in proceedings. (May 28, 2019).

Other Scholarly Activity

1. 2019. Effect of Pulsatile Pressure and Long Sleep Duration on Cerebral Vascular Function American Heart Association \$197,451. Gonzales, J. (Principal), Rivas, E. (Supporting), Vellers, H. (Supporting)
2. 2019. Role of Genetic Background on Age-Related Changes in Mitochondrial Genome Dynamics: Influence of Aerobic Exercise San Antonio Nathan Shock Center \$30,000. Vellers, H. L. (Principal) 100%

WANG, SHU

Publications

1. Feizy Z, Peddibhotla S, Hossain KMS, Hegde V, Wang S, and Dhurandhar N. Nanoparticle-mediated in-vitro delivery of E4orf1 to preadipocytes is a clinically relevant delivery system to improve glucose uptake. *International Journal of Obesity*. (Accepted) (IF: 5.337)
2. Zhang J, Nie S, Zu Y, Abbasi M, Cao J, Li C, Wu D, Labib S, Brackee G, Shen CL, Wang S*. Anti-atherogenic effects of CD36-targeted epigallocatechin gallate-loaded nanoparticles. *J Control Release*. 2019 Apr 15;303:263-273. (IF: 7.877)
3. Hao L*, Scott S, Abbasi M, Zu Y, Khan MSH, Yang Y, Wu DY, Zhao L, Wang S*. Beneficial metabolic effects of mirabegron in vitro and in high-fat diet-induced obese mice. *J Pharmacol Exp Ther*. 2019 Jun;369(3):419-427. (IF: 3.867)
4. Islam N, Hoque MNF, Li W, Wang S, Warzywoda J, Fan Z. Vertically edge-oriented graphene on plasma pyrolyzed cellulose fibers and demonstration of kilohertz high-frequency filtering electrical double layer capacitors. *Carbon*. 2019 January; 141:523-530. (IF: 7.466)

Presentations

Other Scholarly Activity

1. NIH 1R15AT010395-01. PI (Wang). Title "Browning white adipose tissue for diabetes treatment".
2. NSF CMMI 1931737. PI (Fan and Wang) \$380,971 09/01/2019--08/31/2022. Title "Manufacturing of High-Performance Lithium-Sulfur Batteries Using Microbial Nanomachines"
3. American Heart Association 19AIREA34480011. PI (Wang) \$154,000 06/01/2019--05/31/2021 Title "Browning white adipose tissue inhibits atherosclerosis development"

ZHANG, FANGYUAN

Publications

1. Zhang F, Khalili A, Lin S. (2019). Imprinting and Maternal Effect Detection Using Partial Likelihood Based on Discordant Sibship Data. *Statistica Sinica*. 4 = Highly respected in field, refereed.
2. Chen D, Zhang F, Lin S. (2019). AIJ: Joint Test for Simultaneous Detection of Imprinting and Allelic Expression Imbalance. *Mathematical Biosciences and Engineering*. 3 = Good reputation, selective in publication, refereed.

Presentations

Oral Presentation

1. Aavani, P. (Author Only), Trindade, A. (Author Only), Zhang, F. (Presenter & Author), New Researcher Conference, Colorado State University, "Detecting imprinting and maternal effects using Monte Carlo expectation maximization algorithm," peer-reviewed/refereed. (July 25, 2019).

Poster

1. Xue, S. (Presenter & Author), Zhang, F. (Author Only), Scientific Computing meets Machine Learning and Life Sciences, National Science Foundation, the Department of Mathematics & Statistics at Texas Tech University, and the Horn Professorship of Linda J. S. Allen, Texas Tech University, "Detect differentially methylated regions using non-homogeneous hidden Markov model," peer-reviewed/refereed. (October 8, 2019).
2. Zhai, Q. (Presenter & Author), Zhang, F. (Author Only), Scientific Computing meets Machine Learning and Life Sciences, National Science Foundation, the Department of Mathematics & Statistics at Texas Tech University,

and the Horn Professorship of Linda J. S. Allen, Texas Tech University, "NETWORK CLUSTERING WITH ENTROPY-BASED MONTE CARLO METHOD," peer-reviewed/refereed. (October 8, 2019).

3. Nguyen, X. T. (Presenter & Author), Zhang, F. (Author Only), Scientific Computing meets Machine Learning and Life Sciences, National Science Foundation, the Department of Mathematics & Statistics at Texas Tech University, and the Horn Professorship of Linda J. S. Allen, Texas Tech University, "Testing for marginal independence between two categorical variables with multiple responses," peer-reviewed/refereed. (October 8, 2019).

ZUMWALT, MIMI

Publications

1. Dylan Homen MD, Mathew Helm/EL Domingo-Johnson MS2s, Melinda Schalow/Mimi Zumwalt MD. *Triceps Tendon Rupture-Arm Injury/Carpentry. Medicine and Science in Sports and Exercise*. Vol. 49 No. 5 Supplement S343 June 2019
2. Mimi Zumwalt MD & Arubala Reddy PhD. Stem Cells and Their Applications to Human Diseases-Topical Journal of Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease: Stem Cells for Treatment of Musculoskeletal Conditions-Orthopaedic/Sports Medicine Applications, In press.

Presentations

1. Triceps Rupture-Carpentry Accident Causing Arm Injury. Dylan Homen, PGY2 Melinda Schalow, MD Mimi Zumwalt, MD. ACSM Annual Meeting May 2019
2. Gender Differences in Seeking Healthcare for Orthopaedic Conditions GSBS Student Research Week TTUHSC, TX Fall 2019.
3. Hunter Miers, MS2, John Chappa MD, Anudeep Dasaraju MD; Amanda Weaver & Rhett Butler, MS4, Ali Ashraf MD, Adam Wooldridge MD, Phillip Watkins & Mimi Zumwalt, MD. SOM Research Week TTUHSC, TX Spring 2019
4. Addressing Healthcare Provider Competency in Identification of Sex Trafficking Victims. Region IV APAMSA (Asian Pacific American Medical Student Association) conference May 2019
5. Victoria Chu et al. 8th Annual (GSMWH) Gender-Specific Medicine & Women's Health Symposium Posters October 2019
6. Gender Differences in Seeking Healthcare for Orthopaedic Conditions. Hunter Miers, Mimi Zumwalt, et al Assessing Sex Trafficking Identification Competence Among Family Medicine Nurses Following Education.

Other Scholarly Activity

1. Gender/Ethnic Differences in Seeking Healthcare PLUS Time of Recovery from Procedures for Shoulder/Knee/Ankle Conditions. Mimi Zumwalt, MD George Brindley, MD J. Speight Grimes, MD Matthew Ferguson, MD Adam Wooldridge, MD. \$14,850 UMC/LWBIWH Research Scholar Grant
2. Lubbock Anti-Sex Trafficking Project. TMA Foundation Board of Trustees 2017 Medical Community Grant \$1320. Zumwalt, Schalow, Tarbox
3. Human Trafficking Initiative-Sticker Campaign. LWBIWH Internal Seed Grant-Sisters First 2018 Community Grant \$8827. Zumwalt, Schalow, Tarbox
4. Tai Chi for pain management: a pilot mechanistic study. Funding agency: Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC. Shen CL (PI). Neugebauer V (Co-PI). Watkins BA (Co-PI). Brismee JM (Co-I), Zumwalt M (Co-I), Lee J (Co-I), Chyu M-C (Co-I), Luk H-Y (Co-I), O'Boyle M (Co-I). Study period: 12/1/2018-11/30/2019. \$18,000

APPENDIX

2020 CEIH Members Scholarly Activities (# indicates collaboration among CEIH members)

AL-RAHAWAN, Mohamad

Publications

Nguyen TH, Makena MR, Al-Rahawan MM. Comments About Patterns of Prior and Subsequent Neoplasms in Children and Adolescents With Soft Tissue Sarcomas. *J Pediatr Hematol Oncol*. 2020 Nov 6. doi: 10.1097/MPH.0000000000001995. Epub ahead of print. PMID: 33165186.

Nguyen TH, Makena MR, Yavvari S, Kaur M, Pham T, Urias E, Panapitiya N, Al-Rahawan MM; Sarcoma as Second Cancer in a Childhood Hepatoblastoma Survivor: A Case Report and Large Population Analysis. *Medicina (Kaunas)*. 2020 May; 7;56(5):E224.

Turner AL, D'Souza P, Belirgen M, Al-Rahawan MM. Atypical Presentation of Multinodular and Vacuolating Neuronal Tumor of the Cerebrum in a Boy. *J Neurosci Rural Pract*. 2020 Jan;11(1):214-215.

Presentations

Oral: Pediatric Hematology-Oncology Nurse Inservice: Immunotherapy in neuroblastoma, Dinutuximab; Covenant Women and Children Hospital, Lubbock, TX

Poster: Treatment of Three Different BRAF-V600E Positive Brain Tumors with Vemurafenib and Dabrafenib/Trametinib: A Case Series; Society for Neuro-Oncology Annual Scientific Meeting; Austin, TX; Presented by Nikita Dhir, MS-III.

Poster: Exploring the Effects of Hematological Variables on Hemoglobin A1C in Diabetic Children. Pediatric Academic Societies Annual Meeting; Philadelphia, PA; Presented by first author, Sydney Loy, MS-II.

Poster: Sarcoma as second cancer in pediatric cancer survivors: Large population analysis.; American Association for Cancer Research (AACR) Annual Meeting; San Diego, CA; Presented by first author, Monish Ram Makena, MS, PhD.

Poster: Treatment of Three Different BRAF-V600E Positive Brain Tumors with Vemurafenib and Dabrafenib/Trametinib: A Case Series; Texas Tech University Health Science Center Student Research Week; Presented by Nikita Dhir, MS-III.

Grant awards

#South Plains Foundation	\$13,000.00
Local PI for UMC at the Children's Oncology Group (COG)	\$16,450.00

Joon Park, MD; UMC Endowed Chair in Medical Excellence \$30,000.00
Cancer Prevention & Research Institute of Texas (CPRIT) \$73,398.00

BLANTON, Michael

Grant award

September 1, 2019 - August 31, 2020, **Blanton MP**, Blanton Research Support from GSBS, \$9,000 (Total Amount). (Funded)

BRISMÉE, Jean-Michel

Publications

Hallur SS, Brismée JM*, Sizer PS, Dierick F, Dewan B, Thiry P, Sobczak S. Three-Dimensional Spinal Position With And Without Manual Distraction Load Increases Spinal Height. *Journal of Manipulative and Physiological Therapeutics*. 2020; 43(4):267-275.

Wilhelm MP, Hooper TL, Seeber GH, Browne KL, Gilbert KK, James CR, Brismée JM, Matthijs OC, Matthijs A, Sizer PS. The Relationship Between Measures of Foot Mobility and Subtalar Joint Stiffness Using Vibration Energy With Color Doppler Imaging - A Clinical Proof-of-Concept Validation Study. *PLOS One*. 2020;15(8):e0237634.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7437893/pdf/pone.0237634.pdf>

Seeber GH, Wilhelm MP, Sizer PS Jr, Guthikonda A, Matthijs A, Matthijs OC, Lazovic D, Brismée JM, Gilbert KK. The Tensile Behaviors of the Iliotibial Band - A Cadaveric Investigation. *International Journal of Sports Physical Therapy*. 2020;15(3):451-459.

MacDonald CW*, Lonnemann E, Petersen SM, Rivett DA, Osmotherly PG, Brismée JM. COVID 19 and Manual Therapy: International Lessons and Perspectives on Current and Future Clinical Practice and Education. *Journal of Manual and Manipulative Therapy*. 2020;28(3):134-145.

Dennis JA, Zhang Y, Curtis S, Brismée JM, Sizer PS. Conventional and Complementary Healthcare Approaches Used by American Adults Reporting Joint Pain: Patterns from the NHIS 2012. *The Journal of Alternative and Complementary Medicine - Paradigm, Practice and Policy Advancing Integrative Health*. 2020; 26(11):1080-1083.

<https://www.liebertpub.com/doi/pdf/10.1089/acm.2020.0237>

Nichols CW, Brismée JM, Hooper TL, Bertrand-Grenier A, Gilbert KK, St-Pierre M, Kapila J, Sobczak S. Glenohumeral Joint Capsular Tissue Tension Loading Correlates Moderately with Shear Wave Elastography: A Cadaveric Investigation. *Ultrasonography*. 2020;39(2):114-120.

<https://www.e-ultrasonography.org/upload/usg-19032.pdf> (Collaboration with Université du Québec a Trois-Rivières, Canada and University of North Texas)

Pape JL*, Brismée JM, Gilbert KK, Grabs D, Sobczak S. Accuracy of Unguided and Ultrasound Guided Coracohumeral Ligament Infiltrations – A Feasibility Cadaveric Case Series. *BMC Musculoskeletal Disorders*. 2020;21(1):136.

<https://bmcmusculoskeletdisord.biomedcentral.com/track/pdf/10.1186/s12891-020-3153-4>

(Collaboration with Université du Québec a Trois-Rivières, Canada and Department of Physiotherapy, University Hospital of North Tees, Stockton on Tees, United Kingdom,)

Anderson TL, Brismée JM*, Smith TM, Sizer PS, Hanks RS, Hooper TL, Gerke DA, Phelps V, Stinson LW. New Fanwise Subacromial Corticosteroid Injection Technique for Shoulder Impingement: A Preliminary Prospective Single-Arm Clinical Trial. *eMedical Research*. 2020;2,100003:1-11. <https://www.emresonline.org/open-access-pdf/new-fanwise-subacromial-corticosteroid-injection-technique-for-shoulder-impingement-a-preliminary-prospective-singlearm-clinical-100003.pdf>

Mabry LM*, Boyles RE, Brismée JM, Agustsson H, Smoliga JM. Physical Therapy Musculoskeletal Imaging Authority: A Survey Of The World Confederation For Physical Therapy Nations. *Physiotherapy Research International*. 2020;25(2):e1822. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/pri.1822>
((Collaboration with High Point University, North Carolina and University of St Augustine, Florida)

Seeber GH, Lierly M, Bassett C, Douthit C, Wilhelm M, Matthijs A, Matthijs O, Lazovic D, Brismée JM, Gilbert K, Sizer P Jr. The Constraining Effect of the Lateral Femoral Intermuscular Septum on Passive Hip Adduction in Un-embalmed Cadavers. *International Journal of Sports Physical Therapy*. 2020; 15(1):42-52.

Presentation (Poster)

Pape JL*, Lievyns A, Brismée JM, Poortmans V, Poortmans B, Sizer PS, Matthijs OC, Sobczak S. "Segmental Specific Lumbar Intervertebral Height Increases Following Supine Lying With Localized Lumbar Support Measured Using Musculoskeletal Ultrasound" Birmingham, United Kingdom, 11/14/2020.

Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen Seeber GH, Wilhelm MP, Guthikonda A, Lazovic D, Brismée JM, Gilbert KK, Sizer PS Jr. "Das Biomechanische Verhalten des Iliotibialbandes unter Zug - eine Präparatstudie." Baden-Baden, Germany, 05/01/2020

Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen Seeber GH, Lierly M, Bassett C, Douthit C, Wilhelm MP, Lazovic D, Brismée JM, Gilbert KK, Sizer PS Jr. "Der Limitierende Einfluss des Lateralen Intermuskulären Septums auf die Passive Hüftadduktion - eine Präparatstudie." Baden-Baden, Germany, 05/01/2020.

Natesan K, Drusch AS, Garcia L, Kunkel B, Hooper T, Kublawi M, Brismée JM, Yang H, Sizer PS. "Effect of VPAC on Muscles in Healthy Women". Lubbock, Texas, 03/11/2020. 32nd Annual Student Research Week at Texas Tech University Health Sciences Center

Khalid S, Garcia L, Kunkel B, Drusch A, Hooper T, Kublawi M, Brismée JM, Yang H, Sizer P. "Effect of Executive Cognitive Distraction on Sustaining a Volitional Preemptive Abdominal Contraction During a Unipodal Functional Movement in Healthy Subjects." Lubbock, Texas, 03/11/2020. 32nd Annual Student Research Week at Texas Tech University Health Sciences Center

Dice JL*, Dendy D, Sizer PS, Cook CE, Feuling S, Brismée JM. “*Manual Therapy in Pediatrics: A Delphi Investigation of United States Physical Therapists*” Denver, Colorado, 02/13/2020

Gehring R, Potter-Brunet J, Gilbert K, Sizer PS, Brismée JM. “*Neurodynamic Treatment for Neurogenic Claudication Related to Lumbar Spinal Stenosis: Case Series with 3-Month Follow-up*”. Denver, Colorado, 02/13/2020

Nichols Jr CW, Brismée JM, Hooper TL, Bertrand-Grenier A, Gilbert KK, Sobczak S. “*Glenohumeral Joint Capsular Tissue Under Tension Loading Correlates Moderately with Ultrasound Shear Wave Elastography: A Cadaveric Investigation*” Denver, Colorado, 02/13/2020

CONRAD, Lyford

Publications

Sima Siami-Namini, Sima, Conrad Lyford, Alexandre Trindade. “The Effects of Monetary Policy Shocks on Income Inequality Across U.S. States,” *Economic Papers*, 16 March 2020. <https://doi.org/10.1111/1759-3441.12279>

Kalenkoski, Charlene, Conrad Lyford, Thomas Korankye, Meredith Gavin, Alan Peiris. “Vitamin D, Cognitive Function, and Gait Speed in Older Adults: a NHANES Study,” *Journal of Population and Ageing*, 29 July 2020. doi.org/10.1007/s12062-020-09291-6

Felderhoff, Chad, Conrad Lyford, Jaime Malaga, Rod Polkinghorne, Chance Brooks, Andrea Garmyn and Mark Miller. “Beef Quality Preferences: Factors Driving Consumer Satisfaction,” *Foods* 2020, 9(3), 289; [doi:10.3390/foods9030289](https://doi.org/10.3390/foods9030289)

Presentations

Jayaramu, N. and C. Lyford. “Factors Impacting Satisfaction with a Cooperatives Mobile and Web-based Information Platforms”. Selected Paper. 2020 Southern Agricultural Economics Association (SAEA) Annual Meeting, February 11-14, 2020. Louisville, KY.

Grant awards

“A Pilot Study for Enhancing Nutrition and Family Resilience with Early Head Start in the COVID-19 Era”, Texas Tech University, 2021 Scholarship Catalyst Fund (\$3,500)

“Applying Behavioral Economics Approaches to Improve Food Security in Namibia with a Special Emphasis on Women”, January 2021, Department of State, Bureau of Educational and Cultural Affairs (\$4,955)

“OIA 2020 Mandela Washington Fellowship”, January 2020 to September 2020, Department of State, Bureau of Educational and Cultural Affairs (\$136,203)

DUFOUR, Jannette

Publications

Chung E, Elmassry MM, Kottapalli P, Kottapalli KR, Kaur G, Dufour JM, Wright K, Ramalingam L, Moustaid-Moussa N, Wang R, Hamood AN, Shen CL. 2020 Metabolic benefits of annatto-extracted tocotrienol on glucose homeostasis, inflammation, and gut microbiome. *Nutrition Research* 77:97-107. *Selected for an Open Access Award* (\$3,000 for Special Issue of Nutrition Research).

Kaur G, Wright K, Verma S, Haynes A, Dufour JM. The good, the bad and the ugly of testicular immune regulation: a delicate balance between immune function and immune privilege. *Molecular Mechanisms in Spermatogenesis* (in press).

Menikdiwela KR, Ramalingam L, Rasha F, Wang S, Dufour JM, Kalupahana NS, Sunahara KKS, Martins JO, Moustaid-Moussa N. 2020 Autophagy in metabolic syndrome: Breaking the wheel by targeting the renin angiotensin system. *Cell Death and Disease* (in press).

Washburn RL, Kaur G, Dufour JM. 2020 Sertoli cells and complement inhibitors: a possible mechanism to increase pancreatic islet viability. *Annals of Diabetes Research* 4:1013.

Kaur G, Wright K, Mital P, Hibler T, Miranda JM, Thompson LA, Halley K, Dufour JM. 2020 Neonatal pig Sertoli cells survive xenotransplantation by creating an immune modulatory environment involving regulatory T cells. *Cell Transplantation* 29:963689720947102. doi: 10.1177/0963689720947102.

Chung E, Elmassry MM, Kaur G, Dufour JM, Hamood AN, Shen CL. Effects of Dietary geranylgeraniol on glucose homeostasis, bone properties, adipokines and gut microbiome in obese mice with hyperglycemia and insulin resistance. *Nutrients* (submitted).

Sivaprakasam S, Sikder MOF, Ramalingam L, Kaur G, Dufour JM, Moustaid-Moussa N, Wachtel MS, Ganapathy V. SLC6A14 deficiency is linked to obesity, fatty liver, and metabolic syndrome but only under conditions of a high-fat diet. *Molecular Metabolism* (submitted).

Helmer BA, Martinez-Zaguilan R, Kaur G, Smith LA, Dufour JM, Chilton BS. Hltf-deletion from the TME in a CDX model of CRC reprogrammed the 1 human transcriptome-S-nitroso2 proteome to promote inflammation and direct metastasis. *PLOS ONE* (submitted).

Abstracts

Wang R, Ji G, Dufour JM, Kaur G, Miranda JM, Washburn RL, Hibler T, Luk HY, Neugebauer V, Shen CL. Ginger Mitigates Pain Behaviors and Improves Colon Health in Obese Rats with Diabetic Neuropathy. *Obesity Week The Obesity Society Annual Meeting* (Online conference due to COVID-19, November 2-6, 2020)

Invited Presentations (these are presentations I was invited to give in May of 2020 and August of 2022. However, they were postponed due to the COVID-19 pandemic)

Involvement of Tregs and complement in Sertoli Cell immune regulation.
Dr. Yves Clermont Lecture in Reproduction at the 12th Annual Research Day of the McGill Centre for Research in Reproduction and Development. (Montreal, Quebec, Canada) (Moved due to COVID-19 to May 2021)

The role of regulatory immune cells in Sertoli cell immune regulation.
“Immunology: Friend and Foe” 2020 Mammalian Research, Gordon Research Conference
Mount Holyoke College (South Hadley, Massachusetts) (Moved due to COVID-19 to August
2022)

Grant Awards

CH Foundation Seed Grant, “Investigating Sertoli cell immune regulation to improve islet survival as a treatment for diabetes.” (\$60,000, 1/2021-12/2021)
Kaur (Principal Investigator), Dufour (Co- Investigator)

CBB Women’s Health and Sex and Gender Differences Seed Grant, “Sertoli cell induction of Tregs in female recipients.” (\$15,000, 12/01/2020-11/30/2021)
Dufour (Principal Investigator), Kaur (Co- Investigator)

Wilson Foundation, “Genetically engineered Sertoli cells as a vehicle for cell based gene therapy.” (\$490,000, 12/01/2014-11/30/2020, no cost extension to 5/30/2021)
Dufour (Principal Investigator), Kaur (Co- Investigator)

JONES, Betsy

Presentation

Jones BG, Alex K, Anderson B, Cala JK, Chang S, Chen K, Griffin C, Jarman T, Low D, Moyana R, Moseley K, Naude D, Nguyen D, Thomas A, Thompson G, Walker B, Ximenez B, Klein K, Trotter D, Cook R. A Student-Generated, Peer-Led Teaching Activity for Integrative Medicine in a Family Medicine Accelerated Track, STFM Medical Student Education Conference, Virtual, February 2021.

Jones BG, Shen L, Kaur G, FMAT Students. A Student-Generated, Peer-Led Teaching Activity for Integrative Medicine in a Family Medicine Accelerated Track. Submitted to STFM Medical Student Education Conference, Portland, February 2020.

KAHATHUDUWA, Chanaka

Publications

Mastergeorge AM, Kahathuduwa C, Blume J. Eye-Tracking in Infants and Young Children at Risk for Autism Spectrum Disorder: A Systematic Review of Visual Stimuli in Experimental Paradigms. *J Autism Dev Disord*. 2020 Oct 4. doi: 10.1007/s10803-020-04731-w. Epub ahead of print. PMID: 33011860.

Dassanayake TL, Kahathuduwa CN, Weerasinghe VS. L-theanine improves neurophysiological measures of attention in a dose-dependent manner: a double-blind, placebo-controlled, crossover study. *Nutr Neurosci*. 2020 Aug 11:1-11. doi: 10.1080/1028415X.2020.1804098. Epub ahead of print. PMID: 32777998.

Kahathuduwa CN, Wakefield S, West BD, Blume J, Dassanayake TL, Weerasinghe VS,

Mastergeorge A. Effects of L-theanine-caffeine combination on sustained attention and inhibitory control among children with ADHD: a proof-of-concept neuroimaging RCT. *Sci Rep*. 2020 Aug 4;10(1):13072. doi: 10.1038/s41598-020-70037-7. PMID: 32753637; PMCID: PMC7403383.

Dodd SL, Long JD, Hou J, Kahathuduwa CN, O'Boyle MW. Brain activation and affective judgements in response to personal dietary images: An fMRI preliminary study. *Appetite*. 2020 May 1;148:104561. doi: 10.1016/j.appet.2019.104561. Epub 2019 Dec 20. PMID: 31870934.

Akter S, Dawson JA, Kahathuduwa CN, Chin SH, Binks M. Psychological and weight history variables as predictors of short-term weight and body fat mass loss. *Obes Sci Pract*. 2019 Dec 2;6(2):152-161. doi: 10.1002/osp4.394. PMID: 32313673; PMCID: PMC7156839.

Thomas DM, Clark N, Turner D, Siu C, Halliday TM, Hannon BA, Kahathuduwa CN, Kroeger CM, Zoh R, Allison DB. Best (but oft-forgotten) practices: identifying and accounting for regression to the mean in nutrition and obesity research. *Am J Clin Nutr*. 2020 Feb 1;111(2):256-265. doi: 10.1093/ajcn/nqz196. PMID: 31552422; PMCID: PMC6997628.

Rasha F, Kahathuduwa C, Ramalingam L, Hernandez A, Moussa H, Moustaid-Moussa N. Combined Effects of Eicosapentaenoic Acid and Adipocyte Renin-Angiotensin System Inhibition on Breast Cancer Cell Inflammation and Migration. *Cancers (Basel)*. 2020 Jan 16;12(1):220. doi: 10.3390/cancers12010220. PMID: 31963198; PMCID: PMC7016836.

Vorland CJ, Brown AW, Kahathuduwa CN, Dawson JA, Gletsu-Miller N, Kyle TK, Thabane L, Allison DB. Questions on 'Intervention effects of a kindergarten-based health promotion programme on obesity related behavioural outcomes and BMI percentiles'. *Prev Med Rep*. 2019 Nov 21;17:101022. doi: 10.1016/j.pmedr.2019.101022. PMID: 32154090; PMCID: PMC7058642.

Invited Seminar Presentations

Estimating Severity, Case-Fatality, and Risk Factors of Severity of COVID-19 Using Meta-Analysis Methodology – At the intersection of two pandemics COVID-19 & Obesity, Seminar organized by the Obesity Research Institute, TTU

Funded Grant Applications

Role	Funding Mechanism	Amount	Funding Dates	Project Title
Co-I (Funded)	Texas Child Mental Health Care Consortium	\$500,000	08/01/2020-12/31/2022	West Texas Node of the Texas Child Mental Health Care Consortium for the Study of Childhood Depression, Suicide and Trauma (PI: Wakefield)
PI (Funded)	TTUHSC - School of Health Professions Seed Grant	\$10,000	02/10/2020-12/31/2020	Development and Examination of the Utility of a Novel, Web-based Neurofeedback Intervention to Manage Obesity

Co-I (Funded)	TTUHSC School of Medicine Seed Grant	\$10,000	05/01/2020- 04/31/2022	Ability of Positive Psychological Factors to Moderate the Associations between Susceptibility to Anxiety and Depressive Disorders of Medical Students and Their Academic Performance (PI: Ibrahim)
PI (Funded)	Texas Society of Allied Health Professions	\$1,500	01/01/2020 – 12/31/2020	Development and Evaluation of a Research Methods Curriculum for Physician Assistant Students.

KAUR, Gurvinder

Honors and awards

2020 Dean's Basic Science Teaching Award-Year 1

Publications

Kaur G, Wright K, Mital P, Hibler T, Miranda JM, Thompson LA, Halley K, Dufour JM (2020). Neonatal pig Sertoli cells survive xenotransplantation by creating an immune modulatory environment involving CD4 and CD8 regulatory T cells. *Cell Transplant* 29: 1-21.

Washburn RL, Kaur G, Dufour JM (2020). Sertoli cells and complement inhibitors: A possible mechanism to increase pancreatic islet viability. *Ann Diabetes Res* 4: 1-5. (Published)

Chung E, Elmassry MM, Kottapalli P, Kottapalli KR, Kaur G, Dufour JM, Wright K, Ramalingam L, Moustaid-Moussa N, Wang R, Hamood AN, Shen C (2020). Metabolic benefits of annatto-extracted tocotrienol on glucose homeostasis, inflammation, and gut microbiome. *Nutrition Research (New York, N.Y.)* 77: 97-107. (Published)

Kaur, G., Wright, K., Verma, S., Haynes, A. L., Dufour, J. M., The Good, The Bad and The Ugly of Testicular Immune Regulation: A Delicate Balance Between Immune Function and Immune Privilege. In: Molecular Mechanisms in Spermatogenesis (In Press).

Presentations/Exhibits/Productions

Wang R, Ji G, Dufour JM, Kaur G, Miranda JM, Washburn RL, Hibler T, Luk HY, Neugebauer V, Shen CL. Ginger mitigates pain behaviors and improves colon health in obese rats with diabetic neuropathy. The Obesity Society (TOS) 38th Annual Meeting (Virtual, Nov 2-6, 2020)

Washburn RL, Kaur G, Dufour JM. Sertoli cell expression of complement regulatory proteins is necessary to their survival of hyperacute rejection. 3rd Annual Abilene Research Symposium (Virtual oral presentation, October 30th 2020)

Webster, D., Jones, B., Pressley, T., Kaur, G., Kruczek, C., Brower, G., Engaged learning: Integrating simulations, ultrasound and small groups into large-group courses. International

Association of Medical Science Educators (IAMSE) Meeting, Denver, CO, June 2020. (Focus session Presenter; Meeting cancelled due to COVID-19).

Schneider, B., Vories, B., Gore, M., Higgins, K., Lee, V. H., Williams, S., Bishop, K., Kaur, G., Formative assessments predict performance and promote a positive learning environment. Experimental Biology Meeting, San Diego, CA, April 2020. (Selected for Oral presentation, Meeting cancelled due to COVID-19).

Mohammed, T., Kaur, G., Creation of male and female perineum dissection videos to enhance student understanding of perineal injuries. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020.

Coleman, B. R., Schneider, B., Kaur, G., Active learning resources applied to first four weeks of embryological development in first year medical school curriculum. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020.

Gore, M., Vories, B., Kaur, G., Schneider, B. Using formative exams in Clinically Oriented Anatomy: Identifying at-risk students and reducing stress. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020. (Selected for oral presentation).

McCabe, P., Schneider, B., Kaur, G., Incorporating active learning materials into the gastrointestinal and reproductive embryology curriculum for first-year medical students. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020.

Sellers, J., Schneider, B., Kaur, G., Active learning techniques and their effects on medical student education of head and neck embryology. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020.

Wright, K., Reilly, B., Kaur, G., Dufour, J. M., Multi-color immunophenotyping of M1 and M2 polarized macrophages and monocytes in primary mouse tissue that has vast application in mouse models including transplantation. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020. (Selected for oral presentation; won 2nd prize).

Hibler, T., Kaur, G., Wright, K., Dufour, J. M., SMAD2/3, IL-10, and you: A Sertoli cell's guide to promoting allograft survival. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020.

Washburn, R. L., Kaur, G., Dufour, J. M., Sertoli cell inhibition of the complement system may improve xenograft viability. 32nd Annual Student Research Week, March, Texas Tech University Health Sciences Center, Lubbock, Texas, March 2020. (Won 2nd prize).

Grant awards

The Jasper L. & Jack Denton Wilson Foundation, December 2019 - November 2020, Kaur G (Co-Investigator), Dufour JM (Principal Investigator), Genetically Engineered Sertoli Cells as Vehicle Cell Based Gene therapy, 4.3% effort, \$70,000 (Direct Cost).

LAWRENCE, John

Publications:

F. Yi, T. Garrett, K. Deisseroth, H. Haario, E. Stone, and J. J. Lawrence. Septohippocampal transmission from parvalbumin-positive neurons features rapid recovery from synaptic depression. *Submitted to Scientific Reports 8/7/20; revisions requested 9/2/20; revised and resubmitted 11/30/20; accepted 12/14/20; finalized proofs 12/31/20.*

V. Sekulic, F. Yi, T. Garrett, A. Guet-McCreight, J. J. Lawrence*, and F. K. Skinner*. Integration of Within-Cell Experimental Data With Multi-Compartmental Modeling Predicts H-Channel Densities and Distributions in Hippocampal OLM Cells. Accepted 5 August 2020; published 17 September 2020.

**shared senior authors*

Grant Awards:

Wylie Briscoe Endowment Lawrence (PI) 7/24/18-8/31/20 Annual Direct Costs: \$12,500
Prevention of Inhibitory Circuit Failure and Memory Loss in Alzheimer's Disease through Increased Retinoic Acid Signaling.
Role: PI

TTUHSC Collaborative Seed Grant Program in Aging Lawrence (co-PI) 2/1/2020-1/31/2021
Total Costs: \$20,000
Role of aberrant Wnt/Ca²⁺ signaling in Alzheimer's disease and cancer
Role: co-PI

TTUHSC School of Medicine Collaborative Seed Grant Program Lawrence (co-PI) 5/27/2020-5/26/2021
Models to Test Dominant-Negative and Gain-of-Function Mechanisms of ATP1A1 Mutations
Primary hyperaldosteronism (PHA), Charcot-Marie-Tooth (CMT), as well as a form hypomagnesemia accompanied with seizures and cognitive delay (HASCD) have all been associated with mutations in ATP1A1, the gene encoding for the $\alpha 1$ catalytic subunit of the Na⁺,K⁺-ATPase (NKA). It has been proposed that inward passive transport modes are a required "gain of function" for HASCD, and possibly for PHA. The goal of this proposal is to expand the cellular- and animal-model toolbox to evaluate the mechanisms of ATP1A1-linked disease.
Role: co-PI

Presentation: Other Scholarly Activity:

*B. Kisby, K. Castaneda, A.J. Pascullo, R. Barnes, J.D. Bailoo, Igor Ponomarev, and J.J. Lawrence. Sex-specific protection from inhibitory circuit disruption by retinoic acid signaling in a

novel mouse model of Alzheimer's disease. 2020 Laura W. Bush Institute for Women's Health, Sex- and Gender- Health Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, October 23rd, 2020.

**Merit award winner, category: Women's Health and Differences in Health/Gender, Focus on Basic Sciences.*

K. Castaneda, B. Kisby, A.J. Pascullo, R. Barnes, J.D. Bailoo, Igor Ponomarev, and J.J. Lawrence. Sex-specific protection from inhibitory circuit disruption by retinoic acid signaling in a novel mouse model of Alzheimer's disease. 32st Annual Student Research Week 2020: 20/20 Visions of Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX, March 10th-13th, 2020.

LEE, Jaehoon

Publications

Aryaie, A., Tinsley, G., Lee, J., Watkins, B. A., Moore, L., Alhaj-Saleh, A., Shankar, K., Wood, S., Wang, R., & Shen, C.-L. (2020). Actions of annatto-extracted tocotrienol supplementation on obese postmenopausal women: Study protocol for a double-blinded placebo-controlled randomized trial. *British Medical Journal Open*, *10*(3), e034338.

Barlow, S. M., Custead, R., Lee, J., Hozan, M., & Greenwood, J. (2020). Wireless sensing of lower lip and thumb-index finger 'ramp-and-hold' isometric force dynamics in unilateral MCA stroke. *Sensors*, *20*(4), 1221.

Chu, S.-Y., Barlow, S. M., Lee, J., & Wang, J. (2020). Effects of utterance rate and length on the spatiotemporal index in Parkinson's disease. *International Journal of Speech-Language Pathology*, *22*(2), 141–151.

Chu, S.-Y., Park, H.-R., Lee, J., Shaharuddin, K., & Gan, C. (2020). Self-stigma and its associations with stress and quality of life among Malaysian parents of children with autism. *Child: Care, Health and Development*, *46*(4), 485–494.

Chu, S.-Y., Sakai, N., Lee, J., Harrison, E., Tang, K.-P., & Mori, K. (2020). Comparison of social anxiety between Japanese adults who stutter and nonstuttering controls. *Journal of Fluency Disorders*, *65*, 105767.

Claiborn, J. M., Dozier, T. H., Hart, L. S., & Lee, J. (2020). Misophonia phenomenology, impact, and clinical correlates. *Psychological Thought*, *13*(2), 349–375.

Emerson, A. M., Smith, S., Lee, J., Kelly, P. J., & Ramaswamy, M. (2020). Effectiveness of a Kansas City, jail-based intervention to improve cervical health literacy and screening, one-year post-intervention. *American Journal of Health Promotion*, *34*(1), 87–90.

Froehlick-Grobe, K., Betts, A. C., Driver, S., Carlton, D., Lopez, A. M., Lee, J., & Kramer, M. K. (2020). Group Lifestyle Balance Adapted for individuals with Impaired Mobility: Outcomes of a six-month randomized controlled trial and combined groups at 12 months. *American Journal of Preventive Medicine*, *59*(6), 805–817.

Gibson, C. A., Gupta, A., Greene, J. L., Lee, J., Mount, R., & Sullivan, D. K. (2020). Feasibility and acceptability of a televideo physical activity and nutrition program for recent kidney transplant recipients. *Pilot and Feasibility Studies*, 6, 126.

Griffin-Shirley, N., Lee, J., Nguyen, T., Othuon, V., & Page A. (2020). Survey-based learning of interns in orientation and mobility program. *Vision Rehabilitation International*, 11(1), 1-6.

Hunt, P., Kozleski, E., Lee, J., Mortier, K., Fleming, D., Hicks, T., Balasubramanian, L., Leu, G., Bross, L. A., Munandar, V., Dunlap, K., Stepaniuk, I., Aramburo, C., & Oh, Y. (2020). Implementing comprehensive literacy instruction for students with severe disabilities in general education classrooms. *Exceptional Children*, 86(3), 330–347.

Jung, K., Cho, S., Lee, J., Kim, S., & Ryoo, J. (2020). An illustrative application of generalized structured component analysis for brain connectivity research. *Behaviormetrika*, 47(1), 273–289.

Kim, S. Y., Lee, J., Wester, S. R., & Fouad, N. (2020). Do “manly” men believe other men are happier? Social comparison, masculine norms, and positive work-family spillover. *Psychology of Men & Masculinity*, 21(2), 251–265.

Lee, J., Jung, K., & Park. J. (2020). Detecting conditional dependence using flexible Bayesian latent class analysis. *Frontiers in Psychology*, 11, 1987.

Loeb, D. F., Imgrund, C. M., Lee, J., Barlow, S. M. (2020). Language, motor, and cognitive outcomes of toddlers who were born preterm. *American Journal of Speech-Language Pathology*, 29(2), 625–637

Min, J., KC, B., Kim, S., & Lee, J. (2020). The impact of disasters on a heritage tourist destination: A case of Nepal earthquakes. *Sustainability*, 12, 6115.

Park, S., Kim, S., & Lee, J. (2020). A pilot study on the relationship between urban green spaces and fine particulate matter. *International Journal of Geospatial and Environmental Research*, 7(1), 3.

Pickett, M. L., Lee, J., Brouseeau, D. C., Satterwhite, C., & Ramaswamy, M. (2020). Correlates of sexually transmitted infection testing following women’s release from jail. *Women & Health*, 60(10), 1109–1117.

Ptomey, L. T., Szabo-Reed, A. N., Vidoni, E. D., Washburn, R. A., Gorczyca, A. M., Little, T. D., Lee, J., Helsel, B. C., Williams, K. N., & Donnelly, J. E. (2020). A dyadic approach for a remote physical activity intervention in adults with Alzheimer’s disease and their caregivers: Rationale and design for an 18-month randomized trial. *Contemporary Clinical Trials*, 98, 106158.

Smith, P., Lee, J., & Chang, R. (in press). Characterizing competing tensions in Black immigrant literacies: Beyond partial representations of success. *Reading Research Quarterly*.

Szabo-Reed, A. N., Washburn, R. A., Greene, J. L., Ptomey, L. T., Gorczyca, A., Lee, R. H., Little, T. D., Lee, J., Honas, J., Donnelly, J. E. (2020). Physical Activity Across the Curriculum (PAAC3): Testing the application of technology delivered classroom physical activity breaks. *Contemporary Clinical Trials*, 90, 105952.

Oh, H., Lee, J., Gosnell, S. N., Patriquin, M., Kosten, T., & Salas, R. (2020). Orbitofrontal, dorsal striatum, and habenula functional connectivity in psychiatric patients with substance use problems. *Addictive Behaviors, 108*, 106457.

Oh, H., Lee, J., Kim, S., Rufino, K. A., Fonagy, P., Oldham, J. M., Schanzer, B., & Patriquin, M. A. (2020). Time in treatment: Examining mental illness trajectories across inpatient psychiatric treatment. *Journal of Psychiatric Research, 130*, 22–30.

Vellers, H. L., Verhein, K. C., Burkholder, A. B., Lee, J., Kim, Y., Lightfoot, J. T., Shi, M., Weinberg, C. R., Sarzynski, M. A., Bouchard, C., & Kleeberger, S. R. (2020). Association between mitochondrial DNA sequence variants and VO₂ max trainability. *Medicine & Science in Sports & Exercise, 52*(11), 2303-2309.

Presentations

Barlow, S. M., Lee, J., Custead, R., Hozan, M., & Greenwood, J. (February, 2020). *Orofacial and digit force dynamics in chronic MCA ischemic stroke*. Poster presented at the Motor Speech Conference, Santa Barbara, CA.

Gibson, C. A., Valentine, H., Mercier, R.-B., Harvey, S., Landfried, L., & Lee, J. (May, 2020). *Results of a nutrition incentive program within a bi-state region: A mixed-method evaluation*. Paper presented at the annual meeting of the American Society for Nutrition, Seattle, WA.

Hoffman, E., Hozan, M., Lee, J., & Barlow, S. M. (February, 2020). *Orofacial and digit force dynamics in neurotypical children*. Poster presented at the Motor Speech Conference, Santa Barbara, CA.

Hoffman, E., Lee, J., & Barlow, S. M. (February, 2020). *Perioral and digit vibrotactile threshold estimation in neurotypical children*. Poster presented at the Motor Speech Conference, Santa Barbara, CA.

Jung, J., Jung, K., & Lee, J. (March, 2020). *Developing Power BI dashboard with predictive models for student persistence and success*. Paper presented at the annual meeting of the Texas Association for Institutional Research, San Antonio, TX.

Jung, K., Suh, H., Lee, J., Park, J., & Kim, K. (April, 2020). *Analysis of a statewide standardized assessment data using multilevel redundancy analysis*. Poster presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.

Kim, Y., & Lee, J. (June, 2020). *Assessing mediation using propensity score: Comparison between classical and causal inference approach*. Poster presented at the Modern Modeling Methods (M3) Conference, Storrs, CT.

Kim, Y., Lee, J., & Little, T. D. (August, 2020). *Multiple imputation with principle components: Missing data estimation for categorical variables*. Poster presented at the annual meeting of the American Psychological Association, Washington, D.C.

Kim, Y., Lee, J., & Little, T. D. (October, 2020). *Multiple imputation with principal components: Non-normal categorical data*. Poster presented at the annual meeting of the Society of Multivariate Experimental Psychology, Iowa City, IA.

Kim, Y., Lee, J., & Little, T. D. (August, 2020). *The Impact of item parceling on factorial invariance*. Poster presented at the annual meeting of the American Psychological Association, Washington, D.C.

Lee, J., Jung, J., Nazarenko, N., Garcia, L., & English, L. (March, 2020). *Funding and building developmental math and academic support services: Using data to identify success and challenges*. Poster presented at the annual meeting of the Texas Association for Institutional Research, San Antonio, TX.

Lee, J., Kim, S., Li, X., Kim, Y., & Zeng, Y. (June, 2020). *Using principal components to develop propensity score*. Paper presented at the Modern Modeling Methods (M3) Conference, Storrs, CT.

Moon, H., Cheon, J., & Lee, J. (April, 2020). *Teaching block-based programming: A systematic review of current approaches and outcomes*. Paper presented at the annual meeting of the Society for Information Technology & Teacher Education, New Orleans, LA.

Moon, H., Kelly, D., Cheon, J., & Lee, J. (November, 2020). *Comparison of the effects of two teaching approaches on the learning of conditionals with block-based programming in an online environment*. Paper presented at the annual meeting of the Association for Educational Communications and Technology, Online.

Moon, H., Park, H., Kim, Y., Lee, J., & Karkar Esperat, T. M. (April, 2021). *SEM meta-analysis on adjustment difficulties in siblings of children with and without autism spectrum disorder*. Paper presented at the annual meeting of the American Educational Research Association, Online.

*Park, J., Jung, K., & Lee, J. (April, 2020). *The robustness of latent class analysis to violations of local independence assumption*. Poster presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.

Yi, M., Wang, J., Flores, R., & Lee, J. (April, 2020). *Examining the relationship between elementary preservice teachers' development of knowledge and practice of teaching 2-dimensional shapes: A mixed methods study*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Grant awards

Federal:

A dyadic approach for a remote physical activity intervention in adults with Alzheimer's disease and their caregivers, Donnelly & Ptomey (PIs), NICHD R01AG061187, 09/15/2019–05/31/2024, \$3,635,657, Co-I.

Engaging in STEM, Biggers (PI), ED P031C160244, 10/01/2016–09/30/2021, \$4,915,613, Co-I.
Engaging students: The path to STEM success, Capps (PI), ED P031C160219, 10/01/2016–09/30/2021, \$3,800,750, Co-I.

Exposure to violence and subsequent weapons use: Mediating and moderating processes, Huesmann (PI), NICHD R01HD084652, 07/01/2016–4/30/2021, \$2,077,631, Co-I.

Individual and family based approaches to increase physical activity in adolescents with IDD, Donnelly & Ptomey (PIs), NICHD R01HD094704, 09/01/2018–08/31/2023, \$2,484,834, Co-I.

Kansas-Missouri Nutrition Incentive Collaborative, USDA, 01/01/2021–12/31/2023, N.A/\$7,000 (Co-I), 100%.

Medication development for the treatment of alcohol use disorder, Bergeson & Shen (PIs), NIAAA 1U01AA028957, 09/20/2020-08/31/2025, \$7,251,682, Co-I.

Panhandle pipeline (P2): Assessing the impact of mandatory vs. self-selected structured activities on STEM undergraduate student success, Biggers (PI), NSF 1644179, 07/15/2017–6/30/2022, Co-I.

Physical Activity Across the Curriculum (PAAC 3): Teacher vs. remotely delivered classroom physical activity breaks, Donnelly (PI), NIDDK R01DK085317, 03/01/2018–02/28/2023, Co-I.
Revised Calculus Concept Inventory: Measuring the learning gains of first year calculus students, Moskal (PI), NSF 1916751, 10/01/2019-09/30/2022, \$300,000, Co-PI.

Scale up trial of project WOWii to increase exercise among people with SCI, Froehlick-Grobe (PI), NIDILLR xxx, 09/01/2020–08/31/2023, Co-I.

Sexual health empowerment for jail-involved women's health literacy and prevention, Ramaswamy (PI), NCI R01CA181047, 04/01/2019–03/31/2024, \$1,602,097, Co-I.

Somatosensory modulation of salivary gene expression and oral feeding in preterm infants, Barlow (PI), NICHD R01HD086088, 04/01/2016–03/31/2021, \$2,797,503, Co-I.

Systematic investigating the enhancing effect of therapy dogs on social behavior in group social skills Instruction in children with autism, Dotson & Protopopova (PIs), NICHD R21HD095206, 01/01/2019–12/31/2020, \$390,212, Co-I.

Tri-city cervical cancer prevention study among women in the justice system, Ramaswamy (PI), NCI R01CA226838, 09/01/2018–08/31/2023, \$2,929,836, Co-I.

State:

Competitive Edge Seed Grant: Instilling computational thinking through making an augmented reality application, Jung & Lee (PIs), Texas Tech University, 09/01/2020–08/31/2021, \$15,000, Co-PI.

Competitive Edge Seed Grant: Development of institutional research analytics tools and platform, Jung & Lee (PIs), Texas Tech University, 09/01/2019–08/31/2021, \$15,000, Co-PI.

International Research and Development Seed Grant: Development of a new machine learning-based predictive model for ADHD diagnosis using ADHD-200 brain imaging datasets, Jung & Lee (PIs), Texas Tech University, 09/01/2019–08/31/2020, \$2,000, PI.

Levels of vitamins D and infection risk in pediatric patients undergoing chemotherapy, Al-Rahawan (PI), South Plains Foundation, 2019-2020, \$15,000/\$0 (Co-I)/100%

Teacher Incentive Allotment, Hamman (PI), Texas Education Agency, 11/01/2019–10/31/2021, \$7,444,153, Co-PI.

Private:

Actions of dietary tocotrienols on obesity, Shen (PI), American River Nutrition, Inc., 11/01/2018–10/31/2020, \$70,000, Co-I.

LEE, Sueann
Publications

Bae, Y., Lee, S.A.S., *Velik, K., *Liu, Y., *Beck, C., & Fox, R. (2020). Differences in nasalance and nasal perception between Texas South and Midland dialect in English. *Journal of Acoustical Society of America*.

Lee, S.A.S. (2020). Controlled data supports the effectiveness of ultrasound feedback in treatment of vocalic /r/ errors in children with speech sound disorders (Commentary paper). *Evidence-Based Communication Assessment and Intervention*, 14, 118-122.

Gibson*, T., & Lee, S.A.S. (in press). The effects of ultrasound biofeedback in speech intervention for young children with hearing loss. *Clinical Linguistics & Phonetics*,

Lee, S.A.S. (in press) Production accuracy of English and Korean phoneme in simultaneous Korean-English bilingual children in the US. *Communication Sciences and Disorders*

*Liu, Y., & Lee, S.A.S. (in press). English nasalance values of Chinese learners of English. *Folia Phoniatria et Logopaedica*.

Presentations

Lee, S.A.S. (2020). Introduction to ultrasound in speech intervention for children with cleft palate. Annual Meeting of American Cleft Palate Craniofacial Association, March 31, Portland, OR. (Conference canceled due to the Pandemic).

Lee, S.A.S., & Ortega, F. (2020). Benefit of Animated Illustration for Child's Visual Attention and Word Learning: An Eye-Tracking Study, Technical Research, Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Lee, S. A.S. & Davis, G.* (2020). Initial consonant cluster production in children with cleft palate. Proposal accepted for poster presentation at Annual meeting of American Cleft Palate Craniofacial Association. March 31, Portland, OR. (Conference cancelled due to Corona Pandemic)

Nguyen, M.D., Lee, S.A.S., Hayakawa, T., Yamamoto, M., Natsume, N. (2020). Normative Nasalance Values in Vietnamese Adult Speakers, Proposal accepted for poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Lee, S.A.S., Ngan, T., Dang, H., Nugyen, M.T., & Ha, N. (2020). Phonological Development in Vietnamese Children with a Central Hue Dialect. Proposal accepted for poster presentation at

the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Lee, S.A.S., Davis, G., & Liu, Y. (2020). Characteristics of Consonant Clusters in Children with Repaired Cleft Palate. Proposal accepted for poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Lee, S.A.S., & Giles, J. (2020). Phonological Approach to Treat Developmental Errors in Children with Repaired Cleft Palate via Telepractice. Proposal accepted for poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Bae, Y., Lee, S.A.S., Velik, K., Liu, Y., Beck, C., Fox, R. (2020). Differences in Nasalance and Nasality Perception between Texas South and Midland Dialects. Proposal accepted for poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Grant awards

2019-2021 \$27,000 The CH Foundation, Lubbock TX
Project Title: "Teaching words and grammatical morphology via telepractice".
Role: Primary Investigator

2020 \$500 Faculty Research and Scholarly Assistant Program (Publication fee support),
TTUHSC SHP

LUK, Hui-Ying

Publications

Luk, HY., Levitt, DE., Appel, C., Vingren, JL. Sex Dimorphism in Muscle Damage-induced Inflammation (2021). *Medicine & Science in Sports & Exercise*. (in press)

Luk HY, Appell C, Chyu MC, Chen CH, Wang C, Yang RS, Shen CL (corresponding author). Impacts of Green Tea on Joint and Skeletal Muscle Health: Prospects of Translational Nutrition. *Antioxidants (Basel)* 2020 Oct 28;9(11):1050. doi: 10.3390/antiox9111050.

Presentations

Jiwan, NC., Appel, C., Miller, K., Vellers, H., Luk, HY. Acute Resistance Exercise-Induced Hormonal Response Increases Mitochondrial Fusion and Mitophagy Markers Only in Untrained Young Men. *Annual Conference of The American Physiological Society of Integrative Exercise Physiology* 2020.

Miller, KE., Vechin, FC., Jiwan NC., Appell, C., Luk, HY. Proteomic Investigation of Resistance Exercise-Induced Hormonal Changes on Muscle Damage in Untrained Women: A Pilot Study. *Annual Conference of The American Physiological Society's Integrative Physiology of Exercise* 2020.

Wang, R., Ji, G., Dufour, JM., Kaur, G., Miranda, JM., Washburn, RL., Hibler, T., Luk, HY., Neugebauer, V., Shen, CL. Ginger Mitigates Pain Behaviors and Improves Colon Health in Obese Rats with Diabetic Neuropathy. *The Obesity Society Annual Meeting 2020.*

Luk, HY., Appel, C., Fokar, M., Vingren, JL. Sex Dimorphism in Muscle Damage-Induced Inflammation. *Annual meeting of the American College of Sports Medicine 2020.*

Appel, C., Fokar, M., Vingren, JL, Luk, HY. Resistance Exercise-Induced Hormone Change Promotes Autophagy Response in Untrained Women. *Annual meeting of the American College of Sports Medicine 2020.*

Raif, T., Appel, C., Fokar, M., Vingren, JL, Luk, HY. Muscle Damage Increases Autophagy Activation in Untrained Young Men. *Annual meeting of the American College of Sports Medicine 2020.*

Grant Awards

Tocotrienols supplementation for postmenopausal women with low muscle strength
ARN supplemental fund, American River Nutrition, Inc., Hadley, MA.
Shen CL (PI). The goal of study is to test the hypothesis that tocotrienol supplementation modify endocannabinoid and oxylipins in postmenopausal women with low muscle strength. \$30,000.
11/1/2018-10/31/2021.

Dietary tocotrienol (vitamin E isomer) supplement for postmenopausal women: aspects of metabolomics and gut microbiome
Laura W. Bush Institute for Women's Health.
Shen CL (PI, 3%). The goal of this study is to test dietary tocotrienol supplementation on metabolites and gut microbiome of obese women. \$10,000. 8/1/2018-7/31/2021

The effect of resistance exercise-induced hormone changes on autophagy response in untrained men and women. American College of Sports Medicine Texas Chapter. Luk HY (Student Research Mentor). Casey Appel (Student PI). \$1,000

MELLO, Iola

Publications

Moore, A. M., Parks, K., & Mello, I. T. (2020). Transitioning from Registered Nurse to the Advanced Practice Nurse Role. *To appear in Nursing Made Incredibly Easy*, 18(2), 51-54.

NAIR, Nandini

Publications

Kittipibul V, Vutthikraivit W, Kewcharoen J, Rattanawong P, Tantrachoti P, Putthapiban P, Nair N. Angiotensin II antagonists and gastrointestinal bleeding in left ventricular assist devices: A systematic review and meta-analysis. *The International journal of artificial organs* 391398820951811, August 25, 2020.

Nair N. Does Diabetes Influence Post-Transplant Survival in CF-axial LVAD BTT Patients? *J Heart Lung Transpl*, 2020. (In Press)

Nair N. Risk Prediction Model for Basal Cell Carcinoma in Cardiac Allograft Recipients. *J Heart Lung Transpl*, 2020. (In Press)

Nair N. Risk Prediction Model for Cutaneous SCC in Cardiac Allograft Recipients. *J Heart Lung Transpl*, 2020. (In Press)

Elmassry M, Rahman MR, Dixon T, Rogers B, Nair N. Giant Left Ventricular Thrombus Formation in the Setting of Severe Aortic Stenosis and Heavy Cigarette Smoking. *Cureus*, 12(7): e9130, July 11, 2020. PubMed Central ID Number: PMC7417085

Latt H, Mantilla B, San D, Sosa E, Nair N. Loeffler Endocarditis and Associated Parasitosis: A Diagnostic Challenge. *Cureus*, 12(5): e8152, May 16, 2020. PubMed Central ID Number: PMC7294858

Presentations

Nair N. 1.Risk Prediction Model for Basal Cell Carcinoma in Cardiac Allograft Recipients 40th Annual Sessions 2020, ISHLT, Montreal, Canada, 2020. (Peer Reviewed)

Grant awards

Bovine model for diastolic dysfunction, 2017 - Present, Texas Tech University Health Sciences Center, President's Collaborative Research Grant. Nair N .

MOUSTAID-MOUSSA, Naima

Publications

Aljawadi, A., Rasha, F., Ramalingam, L., Alhaj, S., Moussa, H., Gollahon, L., Dharmawardhane, S., Moustaid-Moussa, N. Protective effects of eicosapentaenoic acid in adipocyte-breast cancer cell cross talk. *J. Nutr. Biochem.* 75:108244; 2020. [IF: 4.57; Citations: 1]

Zahid MDK, Rogowski M, Ponce C, Choudhury M, Moustaid-Moussa N, Rahman SM. CCAAT/enhancer-binding protein beta (C/EBP β) knockdown reduces inflammation, ER stress, and apoptosis, and promotes autophagy in oxLDL-treated RAW264.7 macrophage cells. *Mol Cell Biochem* 463(1-2): 211-223, 2020. [IF: 2.884; Citations: 4]

Kumar N, Willis A, Satbhai K, Ramalingam L, Schmitt C, Moustaid-Moussa N, Crago J. Developmental toxicity in embryo-larval zebrafish (*Danio rerio*) exposed to strobilurin fungicides (azoxystrobin and pyraclostrobin). *Chemosphere.* 241:124980, 2020. doi: 10.1016/j.chemosphere.2019.124980. [IF: 5.108, Citations: 3]

Kahathuduwa CN, West BD, Blume J, Dharavath N, Moustaid-Moussa N, Mastergeorge A. The risk of overweight and obesity in children with autism spectrum disorders: A systematic review

and meta-analysis. *Obes Rev.* (12):1667-1679, 2019. doi: 10.1111/obr.12933. Epub 2019 Oct 8. Review. [IF: 8.19; Citations: 6]

Rasha, F., Kahathuduwa CN, Ramalingam, L; Hernandez, A., Moussa, H., Moustaid-Moussa, N. Combined effects of eicosapentaenoic acid and adipocyte renin–angiotensin system inhibition on breast cancer cell inflammation and migration. *Cancers*, MDPI: 12(1), 220 (pp 1-17). 2020 <https://doi.org/10.3390/cancers12010220>. [IF: 6.16, Citations:1]

Menikdiwela KR, Ramalingam L, Rasha, F., Wang, S., Dufour, J., Kalupahana, N., Sunahara, K., Martins, J., Moustaid-Moussa, N. Autophagy in Metabolic Syndrome: Breaking the Wheel by Targeting the Renin Angiotensin System. *Cell Death & Disease*. In Press, 2020 [IF: 6.30, Citations: 3]

Kalupahana, N., Goonapienuwala, B., Moustaid-Moussa, N. Omega-3 Fatty Acids and Adipose Tissue: Inflammation and Browning. *Ann. Rev. Nutr.* [IF: 8.422]. doi:10.1146/annurev-nutr-122319-034142; online ahead of print; June 2020.

Claycombe-Larson, K., Alvine, T., Wu, D., Kalupahana, N.S., Moustaid-Moussa, N., Roemmich, J.N. Nutrients and Immunometabolism: Role of Macrophage NLRP3. *J. Nutr.* 00:1–12, 2020. <https://doi.org/10.1093/jn/nxaa085>; [IF: 4.416, Citations: 3]

Pahlavani, M., Ramalingam, L., Miller, E.K., Davis, H., Scoggin, S., Moustaid-Moussa, N. Discordant Dose-Dependent Metabolic Effects of Eicosapentaenoic Acid in Diet-Induced Obese Mice. *Nutrients*; 12(5), 1342 (pp 1-5), 2020; [IF: 4.21]

Ramalingam L, Soponthomarick B*, Menikdiwela K, and Moustaid-Moussa N. Endoplasmic Reticulum (ER) Stress in Part Mediates Effects of Angiotensin II in Pancreatic Beta Cells. *Diabetes Metab Syndr Obes.* 13:2843-2853, 2020 [IF: 3.19]

Menikdiwela, K., Ramalingam, L., Abbas, M.M., Bensmail, H., Scoggin, S., Kalupahana, N.S., Palat, A., Gunaratne, P., Moustaid-Moussa, N. Role of microRNA 690 in Mediating Angiotensin II Effects on Inflammation and ER stress. *Cells (Basel, Switzerland)*; 9(6):1327, 2020. doi: 10.3390/cells9061327. [IF: 5.65, Citation:1]

Yosofvand, M., Liyanage, S., Kalupahana, N.S., Scoggin, S., Moustaid-Moussa, N., Moussa, H. AdipoGauge software for analysis of biological microscopic images. *Adipocyte Int. J.* doi: 10.1080/21623945.2020.1787583. 9(1):360-373; 2020. [IF: 3.14]

Rasha, F., Ramalingam, L., Menikdiwela, K., Hernandez, A., Moussa, H., Gollahon, L., Layeequr Rahman, R., Moustaid-Moussa, N. Renin angiotensin system inhibition attenuates adipocyte-breast cancer cell interactions. *Exp Cell Res.* doi: 10.1016/j.yexcr.2020.112114. 1;394(1):112114, 2020. [IF: 3.38]

Albracht-Schulte, K., Islam, T., Johnson, P., Moustaid-Moussa, N. Systematic review of beef protein effects on gut microbiota: Implications for health. *Adv. Nutr.* 00:1–13 2020; [IF: 7.26]

Chung, E., Elmassry, M.M., Kottapalli, P., Kottapalli, K.R., Kaur, G., Dufour, J., Wright, K., Ramalingam, L., Moustaid-Moussa, N. Wang, R., Hamood, A.N., Shen, C.L., Metabolic benefits

of annatto-extracted tocotrienol on glucose homeostasis, inflammation, and gut microbiome. *Nutr. Res.* 77:97-107, 2020. doi: 10.1016/j.nutres.2020.04.001. [IF: 2.76]

Dou, X., Ding, Q., Lai S., Jiang, F., Song, Q., Zhao, X., Fu, A., Moustaid-Moussa, N., Su, D., Li. S. Salidroside alleviates lipotoxicity-induced cell death through inhibition of TLR4/MAPKs pathway, and independently of AMPK and autophagy in AML-12 mouse hepatocytes. *J. Funct. Foods.* 20: 103691: pp1-11, 2020 [IF: 3.7]

Jayarathne, S., Ramalingam, L., Edwards, H., Vanapalli, S.E., Moustaid-Moussa, N. Tart Cherry Increases Lifespan in *Caenorhabditis elegans* by Altering Metabolic Signaling Pathways; doi: 10.3390/nu12051482. *Nutrients*; 12(5):1482, 2020. [IF: 4.21]

Ramvalho, T., Pahlavani, M., Kalupahana, N.S., Wijayatunga, N., Ramalingam, L., Jancar, S., Moustaid-Moussa, N. Eicosapentaenoic Acid Regulates Inflammatory Pathways through Modulation of Transcripts and miRNA in Adipose Tissue of Obese Mice. *Biomolecules*, 10, 1292:1-14; doi:10.3390/biom10091292; 2020 [IF: 4.08]

Koboziev, I., Scoggin, S., Gong, X., Mirzaei, P., Zabet-Moghaddam, M., Yosofvand, M., Moussa, H., Jones-Hall, Y., Moustaid-Moussa, N. Effects of Curcumin in a Mouse Model of Very High Fat Diet-Induced Obesity. *Biomolecules* 2020, 10, 1368: 1-16 (doi:10.3390/biom10101368) [IF: 4.08]

#Ramalingam L, Sopontammarak B, Menikdiwela KR, Moustaid-Moussa N. Endoplasmic Reticulum (ER) Stress in Part Mediates Effects of Angiotensin II in Pancreatic Beta Cells. *Diabetes Metab Syndr Obes*; 13:2843-2853, 2020 (doi: 10.2147/DMSO.S257797. eCollection 2020.PMID: 32884312) [IF: 2.84]

#Harlan, L., Mena, L.T., Ramalingam, L., Jayarathne, S., Shen, C-L., Moustaid-Moussa, N. Mechanisms Mediating Anti-Inflammatory Effects of Delta-Tocotrienol and Tart Cherry Anthocyanins in 3T3-L1 Adipocytes. *Nutrients*; 2(11):3356. doi: 10.3390/nu12113356 [IF: 4.21]

Choi, J.M., Camfield, E., Bowman, A., Rajan, K., Labbé, N., Gwinn, K.D., Ownley, B.H., Moustaid-Moussa, N., D'Souza, D.H. Value-added switchgrass extractives for reduction of *Escherichia coli* O157: H7 and *Salmonella* Typhimurium populations on Formica coupons. *Food Microbiol.* In Press, 2020

Other publications – gender equity in academia:

Malisch, J.L., Harris, B.N., Sherrer, S.M., Lewis, K.A., Shepherd, S.L., McCarthy, P.C., Spott, J.L., Karam, E.P., Moustaid-Moussa, N., McCrory Calarco, J. Ramalingam, L., Talley, A.E., Cañas-Carrell, J.E., Ardon-Dryer, K., Weiser, D.A., Bernal, X.E., Deitloff, J. Opinion: In the wake of COVID-19, academia needs new solutions to ensure gender equity. *Proc. Natl. Acad. Sci. U S A.* 117(27):15378-15381, 2020. doi: 10.1073/pnas.2010636117. [IF:9.35, Citation: 41]

Malisch, J.L., Harris, B.N., Sherrer, S.M., Lewis, K.A., Shepherd, S.L., McCarthy, P.C., Spott, J.L., Karam, E.P., Moustaid-Moussa, N., McCrory Calarco, J. Ramalingam, L., Talley, A.E., Cañas-Carrell, J.E., Ardon-Dryer, K., Weiser, D.A., Bernal, X.E., Deitloff, J. Response to the letter to the Editor: Reply to Arora et al.: Concerns and considerations about using the CV as an equity tool. *Proc. Natl. Acad. Sci. U S A.* In Press, 2020. [IF:9.35]

Grant awards

CURRENT FUNDING:

Role	Funding Agency	Total Amount (\$)	Funding Dates	Project Title
CURRENT				
PI	<u>Current:</u> NIH (NCCIH) Parent R15 & Admin Supplement (NIA)	799,300	2016-2021	Parent R15: Anti-obesity effects of omega 3 fatty acids in brown adipose tissue Admin Sup: Fish oil & Alzheimer's disease
Mentor/Sponsor	<u>Completed:</u> USDA NIFA ELI Post-doctoral Fellowship	165,000	2018-2020	Integrated gene and miRNA networks mediating anti-inflammatory effects of fish oil
US PI (Qatar PI: Dehbi)	<u>Current:</u> Qatar Foundation/Qatar Biomed. Res. Inst.	68,750	03/2018-03/2021	Role of HSP40/DNAJB3 in obesity and diabetes
PI	<u>Current</u> USDA-AFRI	500,000	04/2019-03/2022	Mechanisms mediating synergistic anti-inflammatory effects of fish oil & anthocyanins
PI	<u>Current:</u> AHA	154,000	07/2019-06/2021	Microbiome-mediated effects of curcumin in obesity-associated inflammation
PI	<u>Current:</u> Empirical Foods, Inc	1,600,000	06/2018-06/2022	Effect of beef proteins and pH on cancer, obesity and diabetes
PI	<u>Current:</u> Susan G Komen Breast Cancer Foundation, sponsored by The Obesity Society	5,000	01/2020-12/2020	Association between Obesity, Breast Cancer and the Renin Angiotensin System in Breast Cancer Patients
US PI (Qatar PI: Dehbi)	<u>Current:</u> Qatar Foundation/Hamad Bin Khalifa University	147,514	06/2019-06/2022	Therapeutic potential of DNAJB3 as a novel biomarker for obesity and diabetes
Mentor/Sponsor	<u>Current:</u> USDA NIFA Postdoctoral Fellowship	165,000	05/2020-04/2022	Combining exercise and fish oil to reduce human obesity-associated inflammation
PENDING/Not FUNDED SUBMISSIONS				
PI	<u>Pending:</u> USDA NIFA- REEU Workforce Development	500,000	04/2021-03/2026	Nutrition BEST REEU Program: Nutrition-Bench-to-Community Engaged Scholars in Texas

PI (Subcontract)	<u>Pending:</u> NIH	430,000 (TTU, \$112,670)	09/2021- 12/2024	Novel Pathways and miRNA Targets for the Renin Angiotensin Aldosterone System
Co-PI (PI: Park)	<u>Not funded</u> USDA NIFA/AFRI (Medium Priority ranking)	1,000,000	01/2021- 12/2025	Innovative Nutrition Education Program For Underserved (iNEP4U) Families: A Mobile Classroom To Prevent Chronic Diseases
Co-PI PI: Heppert	<u>Not funded</u> NIH (C06) Biomedical Research Facilities	8,000,000 TTU- infrastructure	09/2020- 08/2025	Rural One Health Biomedical Facility at a Hispanic Serving Institution
PI (MPI: USP, Brazil)	<u>Not funded</u> NIH R01 (Dual NIH- FAPESP)	2,362,000 (TTU, 1,500,000)	09/2020- 06/2025	Mechanisms mediating UCP1- independent effects of fish oil

NEUGEBAUER, Volker

Publications

Navratilova, E., Nation, K., Remeniuk, B., Neugebauer, V., Bannister, K., Dickenson, A.H., Porreca, F. Selective modulation of tonic aversive qualities of neuropathic pain by morphine in the right central nucleus of the amygdala requires endogenous opioid signaling in the anterior cingulate cortex. Pain: 161:609-618, 2020. PMID: 31725062. *PMC7124010* [Featured Article: Editor's Choice].

Chen, Y., Moutal, A., Navratilova, E., Kopruszinski, C., Yue, X., Ikegami, M., Chow, M., Kanazawa, I., Bellampalli, S.S., Xie, J., Patwardhan, A., Rice, K., Fields, H., Akopian, A., Neugebauer, V., Dodick, D., Khanna, R., Porreca, F. The prolactin receptor long isoform regulates nociceptor sensitization and opioid-induced hyperalgesia selectively in females. Sci Translat Med 12:529 eaay7550, DOI: 10.1126/scitranslmed.aay7550, 2020. PMID: 32024801. *PMC7523341* [Evaluated in F1000 Faculty Opinions by I. Vetter and R. Ji, <https://f1000.com/prime/737321616>].

Neugebauer, V., Mazzitelli, M., Cragg, B., Ji, G., Navratilova, E., Porreca, F. Amygdala, neuropeptides, and chronic pain-related affective behaviors. Neuropharmacology 170: 108052 (13 pp), 2020. PMID: 32188569. *PMC7214122*.

Ji, G. and Neugebauer, V. Kappa opioid receptors in the central amygdala modulate spinal nociceptive processing through an action on amygdala CRF neurons. Mol. Brain 13: 128 (10 pp), 2020. PMID: 32948219. *PMC7501648*

Neugebauer, V. Serotonin – Pain Modulation. In: Mueller, C.P., Cunningham, K.A. (Eds.) Handbook of the Behavioral Neurobiology of Serotonin, 2nd Edition, Handbook of Behavioral Neurosciences, 31: 309-320, 2020. ISBN: 9780444641250.

Neugebauer, V. Amygdala Physiology in Pain. In: Rosenkranz, J.A., Urban, J.H. (Eds.) Handbook of Amygdala Structure and Function, Handbook of Behavioral Neurosciences, 26: 101-113, 2020. ISBN: 9780128151341.

Abstracts/Posters

Shen, C.L., Wang, R., Ji, G., Vellers, H., Sang, S., Neugebauer, V. Dietary supplementation of gingerols- and shogaols-enriched ginger root extracts attenuate pain-associated behaviors in animals with spinal nerve ligation. Nutrition 2020. Abstract ID 841370. Curr. Dev. Nutr. 4, 2020.

Elmassry, M.M., Wang, R., Hamood, A.N., Neugebauer, V., Shen, C.L. Two isomers of ginger root extracts modify composition and function of gut microbiota in rats treated with neuropathic pain. Nutrition 2020. Abstract ID 841512. Curr. Dev. Nutr. 4, 2020.

Zabet-Moghaddam, M., Gong, X., Mirzaei, P., Wang, R., Neugebauer, V., Shen, C.L. Differential impacts of gingerols- and shogaols-enriched ginger root extracts on fecal metabolites in rats with neuropathic pain. Nutrition 2020. Abstract ID 841603, Curr. Dev. Nutr. 4, 2020.

Phelps, C.E., Navratilova, E., Neugebauer, V., Porreca, F. Kappa Opioid Receptor Activation in the Right Central Nucleus of the Amygdala is Sufficient to Induce Conditioned Place Aversion and Periorbital Allodynia in the Absence of Injury. 18th World Congr. Pain, IASP, 2020.

Wang, R., Ji, G., Dufour, J.M., Kaur, G., Miranda, J.M., Washburn, R.L., Hibler, T., Luk, H.-Y., Neugebauer, V., Shen, C.-L. Ginger Mitigates Pain Behaviors and Improves Colon Health in Obese Rats with Diabetic Neuropathy. 38th Annual Meeting of The Obesity Society, O52, 2020.

Fang, C.Y., Sherali, S., Zabet, M., Gong, X., Mirzaei, P., Wang, R., Neugebauer, V., Shen, C.-L. The effects of ginger root extract on gut microbiota-derived metabolites in animals with neuropathic pain. 3rd Integrative Medicine Symposium and Annual LWBIWH Symposium, 2020.

Shen, C.-L., Wang, R., Ji, G., Vellers, H., Sang, S., Neugebauer, V. Dietary supplementation of gingerols- and shogaols-enriched ginger root extracts attenuate pain-associated behaviors in animals with spinal nerve ligation. 3rd Integrative Medicine Symposium and Annual LWBIWH Symposium, 2020. [Merit Award Winner].

Elmassry, M.M., Wang, R., Hamood, A.N., Neugebauer, V., Shen, C.-L. Two isomers of ginger root extracts modify composition and function of gut microbiota in rats treated with neuropathic pain. 3rd Integrative Medicine Symposium and Annual LWBIWH Symposium, 2020.

Presentations

Invited lectures

09-28-2020 "Differential roles of mGluR2 and mGluR3 in the amygdala in pain modulation". 10th mGlu Meeting, Taormina, Italy. – postponed (COVID-19)

04-29-2020 "Role of amygdala CRF neurons in pain". Neuroscience Research Center, Medical College of Wisconsin, Milwaukee, WI. – postponed (COVID-19)

04-21-2020 "Role of the amygdala in pain and opioid functions". Louisiana Addiction Research Center Symposium, LSU, Shreveport, LA – cancelled (COVID-19)

04-09-2020 "Amygdala pain mechanisms – Role of the CRF system". NIH PAIN Special Interest Group (SIG) Seminar Series. Bethesda, MD. – postponed (COVID-19)

01-08-2020 "Role of amygdala CRF neurons in pain". National Institute of Physiological Sciences International Workshop on Frontiers in Defensive Survival Circuit Research - Pain and Survival Strategy, Okazaki Japan

Grant awards (current support in 2020 and pending support).

1 R01 NS118731 – NIH/NINDS 08/01/20 – 07/31/25
"Trans-Synaptic Signaling Complex in Amygdala Pain Mechanisms"
The goal of this project is to determine the role of the trans-synaptic signaling complex centered on cerebellin 1 and glutamate delta 1 receptor in the regulation of amygdala plasticity and pain mechanisms.
PI, Volker Neugebauer
PI, Shashank Dravid (Contact)
Total costs: \$2,674,615 (TTUHSC subcontract, \$733,740)

R01 NS109255 – NIH/NINDS 08/15/19 – 06/30/24
"Pronociceptive and Antinociceptive Opioid Mechanisms in the Central Nucleus of the Amygdala"
The goal of this project is to determine cellular mechanisms and behavioral consequences of differential functions of mu and kappa opioid systems in the amygdala in neuropathic pain.
PI (Contact), Edita Navratilova, PI, Guangchen Ji
Co-I, Volker Neugebauer
Total costs: \$2,544,148 (TTUHSC subcontract, \$1,253,415)

R01 AA027096 – NIH/NIAAA 07/01/19 - 06/30/23
"The Neuroimmune Model of Excessive Alcohol Consumption: Transition to Alcohol Use Disorder"
The goal of this project is to determine cell type-specific molecular mechanisms of immune activation, its role and effects on the brain in the development of alcohol use disorder (AUD).
PI, Igor Ponomarev
Co-I, Volker Neugebauer
Total costs: \$2,868,750 (original start date, 09/10/2018; transferred to TTUHSC on 07/01/19)

R01 NS106902 – NIH/NINDS 04/01/18 - 03/31/23
"Stress-Induced Descending Facilitation from Amygdala Kappa Opioid Receptors in Functional Pain"
The overall goal of this project is to determine the role of KOR in amygdala plasticity and behaviors in a functional pain model. A key hypothesis is that blockade of stress-induced endogenous amygdala KOR signaling reduces pain responses following priming-induced latent sensitization.
PI, Volker Neugebauer
PI (Contact), Frank Porreca (University of Arizona)
Total costs: \$ 2,740,180 (TTUHSC subcontract, \$1,295,245)

R01 NS038261 - NIH/NINDS
"Amygdala Pain Mechanisms"

12/01/16 - 11/30/21

The overall goal of this project funded since 1999 is to determine role and mechanisms of amygdala plasticity in pain and its interactions with cortical-cognitive control centers, using electrophysiology, pharmacology, behavioral assays, gene transfer and optogenetic strategies. A current focus is on the regulation of amygdala excitability and output by SK potassium channels.

PI, Volker Neugebauer

Total costs: \$1,673,440

PN-CTNT 2018-12 LSVNBAW

12/01/18 - 11/30/20

Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC.

"Tai Chi for Pain Management: A Pilot Mechanistic Study".

The goal of this study is to collect preliminary data on how Tai Chi (pre and post design) may help with pain management of postmenopausal women with knee osteoarthritis and explore the molecular mechanism.

PI, Volker Neugebauer

PI (Contact), Chwan-Li (Leslie) Shen

Total costs: \$18,000

USDA/NIFA

"Ginger root extract for neuropathic pain"

01/01/21 - 08/31/23

The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals.

PI, Volker Neugebauer

PI (Contact) Chwan-Li (Leslie) Shen

Total costs: \$500,000

Other Scholarly Activity.

News Releases

"TTUHSC Garrison Institute on Aging Receives Award. Texas Health and Human Services Announces Innovators in Aging Award Recipients". In: TTUHSC Statline Daily Dose, by Suzanna Cisneros, September 3, 2020; <https://dailydose.ttuhs.edu/2020/september/lubbock-garrison-institute-on-aging-recvies-award.aspx>.

Vetter I: Faculty Opinions Recommendation of [Chen Y et al., Sci Transl Med 2020 12(529)]. In Faculty Opinions, 26 Feb 2020; 10.3410/f.737321616.793571434. <https://f1000.com/prime/737321616>.

Patent

International Patent WO 2020/092996 A1; U.S. Patent Application PCT/US 2019/059524 "Novel selective kappa opioid receptor antagonists and methods related thereto for treatment of addiction and neuropathic pain". Claiming Priority to Serial No.: 62/755,186 (filed 11/02/2018) and Serial No.: 62/928,008 (filed 10/30/2019)

By Nadezhda German, Volker Neugebauer, Mohammad Anwar Hossain, Thomas Abbruscato (published 05/07/2020)

Honors

- Douglas M. Stocco Scholarship/Research Award, SOM, TTUHSC, 2020
- Texas Health and Human Services Commission (HHSC) 2019 Innovators in Aging Award to TTUHSC Garrison Institute on Aging, 2020

Scientific sessions/meetings organized

- Chair, Sessions I and II “Amygdala and Pain”, Pain Mechanisms and Therapeutics Conference, Taormina, Italy, 2021 – postponed from 2020 (COVID-19).
- Co-Chair, Session “mGluRs and Pain”, 10th mGlu Meeting, Taormina, Italy, 2021 – postponed from 2020 (COVID-19).
- Organizer, 5th Annual Symposium, Center of Excellence for Translational Neuroscience and Therapeutics, Lubbock, TX, 2020 – postponed (COVID-19).

Service

- NIH study section (IRG IFCN-SCS), Regular Member, 2015 -
- President’s Advisory Board, Member, 2020 -
- Emergency Task Force Research Committee, Member, 2020 -
- Review Committee for Application of People’s Alzheimer’s Disease Center, SOM, Member, 2020
- Research Misconduct Inquiry Committee, Chair, 2020

OLDEWAGE-THERON, Wina

Publications

OLDEWAGE-THERON W, MORALES S & EGAL A. 2020. Change in soy and nutrition knowledge and perceptions of smallholder South African farmers after attending a single one day soy nutrition training workshop: a pilot study. African Journal of Food, Agriculture, Nutrition and Development, 20(6): 16604-16621. <https://www.ajfand.net/Volume20/No6/Wilna18545.pdf>

MOYO G, MAGAISA T, PAGIWA A, KANDAWASVIKA R, NYANGA L, GOMORA Z & OLDEWAGE-THERON W. 2020. Barriers and facilitators of exclusive breastfeeding: Findings from a barrier analysis conducted in Mwenezi and Chiredzi districts, Zimbabwe. World Nutrition, 11(3): 12-21. <https://worldnutritionjournal.org/index.php/wn/article/view/732>

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 pages. <https://doi.org/10.1177/001789692094421>.

O OTITOOLA, W OLDEWAGE-THERON & A EGAL. 2020. Prevalence of overweight and obesity among selected schoolchildren and adolescents in Cofimvaba, South Africa. South African Journal of Clinical Nutrition, 6 pages. <https://doi.org/10.1080/16070658.2020/1733305>

A EGAL & W OLDEWAGE-THERON. 2020. Extruded food products and their potential impact on food and nutrition security. South African Journal of Clinical Nutrition, 33(4): 2 pages. <https://www.tandfonline.com/doi/full/10.1080/16070658.2019.1583043>

Presentations

OLDEWAGE-THERON W. Food product development from a nutritionist perspective – focus on South Africa (invited speaker). Soy360 virtual conference 1-11 December 2020:

MOYO G, KANDAWASVIKA R, MAGAISA T, KAREMBO F, MUTENDADZAMERA C, MATIMBIRA I, HUTURUME T, NYANGA L, PAGIWA A & OLDEWAGE-THERON W. 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 (poster). 2020 Academy of Nutrition & Dietetics Food & Nutrition Conference & Expo virtual conference July 2020.

JAMSHIDINAEINI Y & OLDEWAGE-THERON W. Comparative Outcome Evaluation of Three Delivery Models for a Diabetes Prevention Education Program for Older Adults. Society of Nutrition Education and Behavior virtual conference 20-25 July 2020.

JAMSHIDINAEINI Y & OLDEWAGE-THERON W. Comparative effectiveness of three different delivery models for a community-based Diabetes prevention and management education program in older adults. American Society of Nutrition virtual conference 30 May-2 June 2 2020 (Seattle, WA):

RIVERA JN, BASU T, BENAVIDES ML, THOMAS-JACKSON S & OLDEWAGE-THERON W. Breastfeeding practices among South African women: A pilot study (poster). Texas Academy of Nutrition and Dietetics Conference 2-4 April 2020, Georgetown, TX:

PALMER, Ty

Publications

Palmer, T. B., Blinch, J., Farrow, A. C.*, Agu-Udemba, C. C.†, Mitchell, E. A.† (2020). Real-time measurement of isometric peak torque and rate of torque development using a novel strength testing device: a validity and reliability study. *Physiological Measurement*, 41(11), 1-10.

Farrow, A. C.*, Gonzales, J. U., Agu-Udemba, C. C.†, Sobolewski, E. J., Thompson, B. J., Palmer, T. B. (2020). Effects of age on vertical jump performance and muscle morphology characteristics in females. *Journal of Sports Medicine and Physical Fitness*, 60(8), 1081-1088.

Palmer, T. B., Farrow, A. C.*, Palmer, B. M. (2020). Relationships between hamstring morphological characteristics and postural balance in elderly men. *Journal of Musculoskeletal and Neuronal Interactions*, 20(1), 88-93.

Note: * indicates graduate student author; † indicates undergraduate student author.

Papers Presented at Professional Meetings and Seminars

Online Abstract

Palmer, T. B. (Presenter & Author), Farrow, A. C.* (Author Only), Agu-Udemba, C. C.† (Author Only), Mitchell, E. A.† (Author Only), ACSM National Conference, ACSM, San Francisco, CA,

"Time course of the acute effects of static stretching on passive stiffness in elderly men," National, peer-reviewed/refereed, published in proceedings. (June 2020).

Farrow, A. C.* (Presenter & Author), Agu-Udemba, C. C.† (Author Only), Mitchell, E. A.† (Author Only), Palmer, T. B. (Author Only), ACSM National Conference, ACSM, San Francisco, CA, "Relationships between muscle quality, maximal and rapid torque characteristics, and walking speed in elderly females," National, peer-reviewed/refereed, published in proceedings. (June 2020).

Poster

Agu-Udemba, C. C.† (Presenter & Author), Mitchell, E. A.† (Author Only), Farrow, A. C.* (Author Only), Palmer, T. B. (Author Only), Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Age-related differences in forearm muscle size and handgrip maximal and rapid force characteristics," Regional, peer-reviewed/refereed, published in proceedings. (February 2020).

Farrow, A. C.* (Presenter & Author), Agu-Udemba, C. C.† (Author Only), Mitchell, E. A.† (Author Only), Palmer, T. B. (Author Only), Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Relationships between walking speed and lower extremity muscle quality and strength in elderly females," Regional, peer-reviewed/refereed, published in proceedings. (February 2020).

Mitchell, E. A.† (Presenter & Author), Agu-Udemba, C. C.† (Author Only), Farrow, A. C.* (Author Only), Palmer, T. B. (Author Only), Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Sex-related differences in maximal and rapid hamstrings to quadriceps strength capacities," Regional, peer-reviewed/refereed, published in proceedings. (February 2020).

Note: * indicates graduate student author; † indicates undergraduate student author.

Grant Research Support

Year	Title of Current Research or Grant	Granting Agency	Amount \$	Chief Investigators & Faculty Members in order	Percent Contribution
2018	Tocotrienols supplementation for postmenopausal women with low muscle strength-ARN supplemental fund	American River Nutrition, Inc.	\$30,000	Shen, L. (Principal), Palmer, T. B. (Co-Investigator)	5%
2018	Tocotrienols supplementation for postmenopausal women with sarcopenia: a pilot study	South Plains Foundation	\$15,000	Shen, L. (Principal), Palmer, T. B. (Co-Investigator)	41%

Intellectual Property (e.g., copyrights, patents)

Year	Patent Title	Patent Nationality	Inventors
2020	Dynamo Torque Analyzer	United States	Palmer, T. B., Blinch, J.

PARK, Oak Hee

Presentations

Invited Presentation: Park, O. (2020). Perspective of Climate Change for Nutrition Interventions in an Underserved Neighborhood in West Texas. USAIN 2020 Virtual Conference.

Grant awards

Texas Tech University (2019-2020): Great Greens (GG): Innovative Nutrition and Gardening Curriculum for Obesity Prevention among Early Adolescent: PI: 100% credit, \$5,000.

Other Scholarly Activity: Fall 2020: RHIM Graduate Class Presentation: Research Method-Online Survey Through Qualtrics: Case of National Survey for Ugly Produce and Consumption Behavior

PHY, Jennifer

Presentations

Phy JL. PCOS Support and Building Your Healthcare Team National PCOS Association, September 26, 2020. (Peer Reviewed)

Phy JL. Multidisciplinary Approach to Management of Polycystic Ovary Syndrome National PCOS Association, September 12, 2020.

PUNYANUANT-CARTER, Narissra

Publications

Levine, T. R., Punyanunt-Carter, N. M., & Moore, A. D. (In Press). The Truth-Default and Video Clips: Testing the Limits of Credulity. *Communication Studies*.
<https://doi.org/10.1080/10510974.2020.1833357>

Punyanunt-Carter, N.M., & Rodriguez, N. B. (2020). An Examination of equity and interdependence theory as predictors of maintenance behaviors: interracial vs. intraracial dating relationships. *Journal of Intercultural Communication*, 49 (6), 617-631.
<http://dx.doi.org/10.1080/17475759.2020.1815822>.

Ouytsel, J. V., Punyanunt-Carter, N., Walrave, M., & Ponnet, K. (2020). Sexting within young adults' dating and romantic relationships. *Current Opinion in Psychology*, 36, 55-59.
<https://doi.org/10.1016/j.copsyc.2020.04.007>

Rasmussen, E. E., Punyanunt-Carter, N., La Freniere, J. R., Norman, M. S., & Kimball, T. G. (2020). The serially mediated relationship between emerging adults' social media use and mental well-being. *Computers in Human Behavior*, 102, 206-213.
<https://doi.org/10.1016/j.chb.2019.08.019>

Niehuis, S., Reifman, A., Weiser, D., Punyanunt-Carter, N., Flora, J., Arias, V. S., & Oldham, C. R. (2020). Guilty pleasure? Communicating sexually explicit content on dating-apps and disillusionment with app usage. *Human Communication Research*, 46(1), 55-85.
<https://doi.org/10.1093/hcr/hqz013>

BOOK CHAPTERS

Riggs, R. E., & Punyanunt-Carter, N. M. (In press). Young adults use of sexting. In Rachel Kalish (Ed.) *Young Adult Sexuality in the Digital Age*. IGI Publishing.

Duffee, R., Cox, S., & Punyanunt-Carter, N. M. (In press). Chapter 8: Understanding children's parasocial relationships. In Thomas Socha & Narissra Punyanunt-Carter (Eds.). *Children's Communication Sourcebook*. Peter Lang Publishers.

Socha, T. J., & Punyanunt-Carter. (In press). Chapter 1: Introduction to communication focusing on children. In T. J. Socha, & N. Punyanunt-Carter, N. (Eds.), *Children's Communication Sourcebook* (ch 6). New York: Peter Lang.

WEBSITE CONTRIBUTION

Punyanunt-Carter, N.M. (2020). Ali Wong – Female Comedians. *In Media Res*.
<http://mediacommons.org/imr/content/ali-wong-female-standup-comedian>

Presentations

Jones, J., Punyanunt-Carter, N.M., & Wrench, J.S. (2020, November 17-22). Examining the Relationship between Political Communication Apprehension and Communication Apprehension with a Range of Political Communication Variables. Paper will be presented at the annual meeting of the National Communication Association online.

Levine, T.R., Punyanunt-Carter, N.M., & Moore, A. (2020, November 17-22). The Truth-Default and Video Clips: Testing the Limits of Credulity. Paper will be presented at the annual meeting of the National Communication Association online.

De La Cruz, J.J., Punyanunt-Carter, N. M., & Wrench, J. S. (2020, May 21-25). *Dating App Communication: Personal Characteristics, Motives, and Behavioral Intent*. Paper presented at the annual meeting of the International Communication Association, Gold Coast, Australia. (Conference canceled due to Covid19)

Punyanunt-Carter, N. M., Norman, M.S., & LaFreniere, J. (2020, April 1- 5). *Analyzing College Students' Perceptions about How Parents Should Interpersonally Communicate Divorce to Their Children*. Paper will be presented at the annual meeting of the Southern States Communication Association, Frisco, Texas. (Conference canceled due to Covid19)

Wagner, T., Punyanunt-Carter, N. M., & McCarthy, L. (2020, April 1- 5). *Rules, Reciprocity, and Emojis: An Exploratory Study on Flirtatious Texting Communication*. Paper will be presented at the annual meeting of the Central States Communication Association, Chicago, Illinois. (Conference canceled due to Covid19)

FUNDING GRANTS

2020 Texas Tech University Undergraduate Research Funding Grant COMC
\$600

SHEN, Chwan-Li (Leslie)

Publications

Aryaie A, Tinsley G, Lee J, Watkins BA, Moore L, Alhaj-Saleh A, Shankar K, Wood SR, Wang R, Shen CL (corresponding author). Actions of annatto-extracted tocotrienol supplementation on obese postmenopausal women: study protocol for a double-blinded placebo-controlled randomized trial. *BMJ Open*. 2020;10(3):e034338

Beebe ML, Mo H, Ji X, Shen CL (corresponding author). Tocotrienols in bone protection: evidence from preclinical studies. *eFood*. 2020;1(3):217-225.

Chung E, Elmassry MM, Kottapalli P, Kottapalli KR, Kaur G, Dufour JM, Wright K, Ramalingam L, Moustaid-Moussa N, Wang R, Hamood AN, Shen CL (corresponding author). Metabolic benefits of annatto-extracted tocotrienol on glucose homeostasis, inflammation and gut microbiome. *Nutrition Research*. 2020;77:97-107.

Zhou J, Tang L, Shen CL, Wang JS. Green tea polyphenols boost gut-microbiota-dependent mitochondrial TCA and urea cycle in sprague-dawley rats. *Journal of Nutritional Biochemistry*. 2020 Jul;81:108395.

Elmassry MM, Chung E, Cao JJ, Hamood AN, Shen CL (corresponding author). Osteoprotective effect of green tea polyphenols and annatto-extracted tocotrienol in obese mice is associated with enhanced the microbiome vitamin K2 biosynthetic pathways. *Journal of Nutritional Biochemistry* 2020 Dec;86:108492. doi: 10.1016/j.jnutbio.2020.108492. Epub 2020 Sep 11. PMID: 32920088

Harlan L, Mena LT, Ramalingam L, Jayarathne S, Shen CL, Moustaid-Moussa N. Mechanisms Mediating Anti-Inflammatory Effects of Delta-Tocotrienol and Tart Cherry Anthocyanins in 3T3-L1 Adipocytes. *Nutrients* 2020;12(11):E3356 2020 Oct 30;12(11):3356. doi: 10.3390/nu12113356.

Luk HY, Appell C, Chyu MC, Chen CH, Wang C, Yang RS, Shen CL (corresponding author). Impacts of Green Tea on Joint and Skeletal Muscle Health: Prospects of Translational Nutrition. *Antioxidants (Basel)* 2020 Oct 28;9(11):1050. doi: 10.3390/antiox9111050.

Xue KS, Tang L, Shen CL, Pollock BH, Guerra F, Phillips TD, Wang JS. Increase in Aflatoxin Exposure in Two Populations Residing in East and West Texas, United States. *International Journal of Hygiene and Environmental Health* 2020 Nov 13;231:113662. doi: 10.1016/j.ijheh.2020.113662. Online ahead of print.

Huang H-T, Cheng T-L, Lin S-Y, Ho C-J, Chyu JY, Yang R-S, Chen C-H, Shen C-L (corresponding author). Osteoprotective roles of green tea catechins. *Antioxidants (Basel)* 2020 Nov 16;9(11):1136. doi: 10.3390/antiox9111136.

Presentations

Invited Oral Virtual Presentation:

Shen, CL. "Challenges and risk management for investigator-initiated FDA-IND clinical trials". Annual meeting of Society of Clinical Research Associates (SoCRA), September 25-27, 2020. Las Vegas, NV.

Virtual posters at annual meetings (due to Covid-19)

Elmassry MM, Chung E, Hamood AN, Shen CL. Addition of geranylgeraniol and green tea polyphenols to high-fat diet impacts the gut microbiome composition and function in type 2 diabetic mice. Annual Meeting of International Congress on Integrative medicine and Health. 4/28/20-5/1/20.

Zabet M, Gong X, Mirzaei P, Wang R, Neugebauer V, Mechref Y, Shen CL. Analysis of fecal metabolome to study the function of Microbiota in rats with neuropathic pain treated by Ginger root extract. Annual Meeting of American Society for Mass Spectrometry 5/31/20-6/4/20.

Kim JS, Najjar RS, Shen CL, Feresin RG. Effects of annatto-extracted tocotrienols in the liver of high-fat diet fed mice. Annual Meeting of American Society for Nutrition, 5/30/20-6/2/20.

Elmassry MM, Wang R, Hamood AN, Neugebauer V, Shen CL. Two isomers of ginger root extracts modify composition and function of gut microbiota in rats treated with neuropathic pain. Annual Meeting of American Society for Nutrition, 5/30/20-6/2/20. Current Developments in Nutrition, 2020; 4: Suppl 2, June 20, page 394.

Shen CL, Wang R, Ji G, Vellers H, Sang S, Neugebauer V. Dietary supplementation of gingerols- and shogaols-enriched ginger root extracts attenuate pain-associated behaviors in animals with spinal nerve ligation. Annual Meeting of American Society for Nutrition, 5/30/20-6/2/20. Current Developments in Nutrition, 2020; 4: Suppl 2, June 20, page 74.

Zabet M, Gong X, Mirzaei P, Wang R, Neugebauer V, Shen CL. Differential impacts of gingerols- and shogaols-enriched ginger root extracts on fecal metabolites in rats with neuropathic pain. Annual Meeting of American Society for Nutrition, 5/30/20-6/2/20. Current Developments in Nutrition, 2020; 4: Suppl 2, June 20, page 494.

Elmassry MM, Chung E, Hamood AN, Shen CL. Supplementation of geranylgeraniol and tocotrienols to high-fat diet shifts the gut microbiome composition and function in type 2 diabetic mice. Annual Meeting of American Society for Nutrition, 5/30/20-6/2/20. Current Developments in Nutrition, 2020; 4: Suppl 2, June 20, page 393.

Wang R, Ji G, Dufour JM, Kaur G, Miranda JM, Washburn RL, Hibler T, Luk H-Y, Neugebauer V, Shen CL. Ginger Mitigates Pain Behaviors and Improves Colon Health in Obese Rats with Diabetic Neuropathy. Annual Meeting of The Obesity Society, 11/2/20-11/6/20.

Grant awards

Ginger root extract for neuropathic pain
Shen CL (PI-contact, 4%), Neugebauer, Volker (MPI). USDA/NIFA. The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals. \$500,000. 1/1/2021-8/31/2023.

Medication Development for the Treatment of Alcohol Use Disorder
Bergeson S (PI-contact), Shen CL (MPI). NIH/NIAAA. The goal of this study is to complete studies to prepare the chemically modified minocycline analogs for completion of investigational new drug (IND) enabling approval by the FDA and to begin a Phase I clinical trial. \$7,251,682. 9/20/2020-8/31/2025.

Levels of vitamins D and infection risk in pediatric patients undergoing chemotherapy
South Plains Foundation
Shen CL (Co-I). The goal of study is to measure the serum levels of vitamin D in children undergoing chemotherapy and track changes after 6 months and to investigate the relationship between vitamin D levels and the incidence of fever as a marker for infection in this population. \$13,000. 9/1/19-8/31/20.

Tai Chi for pain management: a pilot mechanistic study
Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC.
Shen CL (PI). The goal of this study is to collect preliminary data on how Tai Chi may help with pain management of postmenopausal women with knee osteoarthritis and explore the molecular mechanism. \$18,000 from CTNT. \$6,000 matching fund Texas Tech University Neuroimaging Institute (TTNI). 12/1/2018-11/30/2021.

Actions of dietary tocotrienols on obesity: ARN supplemental fund
American River Nutrition, Inc., Hadley, MA.
Shen CL (PI). The goal of study is to test the hypothesis that tocotrienol supplementation improve lipid profiles and modify endocannabinoid and oxylipins in obese postmenopausal women. \$70,000. 11/1/2018-10/31/2021.

Tocotrienols supplementation for postmenopausal women with low muscle strength
ARN supplemental fund, American River Nutrition, Inc., Hadley, MA.
Shen CL (PI). The goal of study is to test the hypothesis that tocotrienol supplementation modify endocannabinoid and oxylipins in postmenopausal women with low muscle strength. \$30,000. 11/1/2018-10/31/2021.

Dietary tocotrienol (vitamin E isomer) supplement for postmenopausal women: aspects of metabolomics and gut microbiome
Laura W. Bush Institute for Women's Health.
Shen CL (PI, 3%). The goal of this study is to test dietary tocotrienol supplementation on metabolites and gut microbiome of obese women. \$10,000. 8/1/2018-7/31/2021

Actions of dietary tocotrienols on obesity: a pilot clinical study
School of Medicine, Texas Tech University Health Sciences Center.
Shen CL (PI, 3%). Aryaie A (co-PI). Lee J (co-I), Tinsley G (co-I), Watkins BA (co-I). The goal of this pilot study is to test a dietary tocotrienol supplementation for feasibility, and to quantitatively assess its potential anti-obesity effects on postmenopausal women. \$20,000. 7/1/2018-12/31/2020.

Grants submitted under review

"Development of new N-arachidonyl glycine (NAGly) analogs for neuropathic pain". Benamar K (PI-contact), Shen CL (MPI, 10%). NIH/NIDR. The goal of this study is to evaluate the effects of NAGly analogs for neuropathic pain, to prepare NAGly analogs conduct pre-IND animal studies,

to obtain IND enabling approval by the FDA, and to begin a Phase I clinical trial. 6/1/2020-5/31/2026. \$4,478,331.

Grants submitted but not funded

Clinical Investigation of Tai Chi and n-3 PUFA on endocannabinoid modulation and brain fMRI connectivity in knee OA pain.” Shen CL (PI, 25%). NIH. The goal of this study is to advance our knowledge about mechanisms of a mind-body exercise (Tai Chi) and n-3 polyunsaturated fatty acids supplement in individuals with knee osteoarthritis pain. 4/1/2021-3/31/2026. Requested \$3,627,586.

On-going Research Project

Assessing Nurse Practitioners’ (NPs) Attitudes and Use of Complementary and Alternative Medicine (CAM) Practices for Pain Management. Role: Co-investigator.

Other Scholarly Activity: supervised 13 medical students for 2020 Medical Student Summer Research Programs.

Daniel Payberah (MS2), School of Medicine, TTUSHC, 2020 MSSRP: conducting meta-analysis. Project title: Effects of Botulinum Toxin on Tension-type Headaches: A Systematic Review and Meta-analysis.

Kevin Chin (MS2), School of Medicine, TTUHSC, 2020 MSSRP: conducting meta-analysis. Project title: Effects of Tai Chi and Qi Gong on anxiety and depression: a systematic review and meta-analysis.

Haven Ward (MS2), School of Medicine, TTUHSC, 2020 MSSRP: conducting meta-analysis. Project title: Effects of Tai Chi and Qi Gong on anxiety and depression: a systematic review and meta-analysis.

Fehintola Soetan (MS2), School of Medicine, TTUHSC, 2020 MSSRP: conducting meta-analysis. Project title: Effects of mind-body interventions on symptoms and cognitive functions of individuals with ASD.

Adam Wynn (MS2), School of Medicine, TTUHSC, 2020 MSSRP: conducting meta-analysis. Project title: Effects of consumption of coconut oil or coconut on glycemic control and insulin sensitivity: a systematic review and meta-analysis_of interventional trials.

Jason Chen (MS1), School of Medicine, TTUHSC, 2020: conducting 2nd analysis of data. Project tentative title: Association between physician advice for lifestyle change and actual reported behavior change in patients suffering from musculoskeletal pain.

Jessyca Turner (MS2), School of Medicine, TTUHSC, 2020: conducting 2nd analysis of data and poster preparation. Project title: Applying diffusion of innovation to the Texas Mother Friendly Worksite Program: dose early adoption lead to lower rates of infant mortality.

Tochi Eboh (MS2), School of Medicine, TTUHSC, 2020: conducting 2nd analysis of data. Project title: TBD.

Alexis Shuck (MS2), School of Medicine, TTUHSC, 2020: working on a review article and poster presentation. Project title: Potential therapeutic benefits of capsaicin, EGCG, and green tea extract, curcumin, and ginger on fibromyalgia: a review of the literature.

Christina Tompkins (MS2), School of Medicine, TTUHSC, 2020: working on a review article and poster presentation. Project title: Analgesic effects of GSPE, soy and genistein, naringin, and omega-3 PUFA and their possible molecular mechanisms in treating fibromyalgia.

Rodan Devega (MS2), School of Medicine, TTUHSC, 2020: working on a review article and poster presentation. Project title: Potential health effects of curcumin, saffron, garlic, resveratrol, tea, and omega-3 fatty acids on depression: a review of the literature.

Luis Castro (MS2). School of medicine, TTUHSC, 2020: working on a review article: Bioactive components for neuropathic pain.

Maribel Castro (MS1). School of medicine, TTUHSC, 2020: working on a review article: Bioactive components for neuropathic pain.

SHIN, Andrew

Publications

Gannaban RB, NamKoong C, Ruiz HH, Choi HJ, Shin AC. Central regulation of branched-chain amino acids is mediated by AgRP neurons. *Diabetes*, 2021 Jan; 70(1): 62-75. Epub 2020 Oct 28.

Galyean S, Sawant D, Shin AC. Immunometabolism, micronutrients, and bariatric surgery: The use of transcriptomics and microbiota-targeted therapies. *Mediators of Inflammation*, 2020 Nov 17; 2020:8862034

Mullins CA, Gannaban RB, Khan MS, Shah H, Siddik MAB, Hegde V, Reddy PH, Shin AC. Neural underpinnings of obesity: the role of oxidative stress and inflammation in the brain. *Antioxidants*, 2020 Oct 20; 9(10): 1018

Shin AC*, Balasubramanian P, Suryadevara P, Zyskowski J, Herdt TH, MohanKumar SM, MohanKumar PS. Metformin effectively restores the HPA axis function in diet-induced obese rats. *International Journal of Obesity – Nature*, 2020 Sep 19 [Epub ahead of print]

*Corresponding author

Galyean S, Sawant D, Shin AC. Personalized Nutrition for Management of Micronutrient Deficiency - Literature Review in Non-Bariatric Populations and Possible Utility in Bariatric Cohort. *Obesity Surgery*, 2020 Sep; 30(9): 3570-3582. Epub 2020 Jun 20.

Akheruzzaman M, Hegde VK, Shin AC, Dhurandhar NV. Reducing endogenous insulin is linked with protection against hepatic steatosis in mice. *Nutrition & Diabetes – Nature*, 2020 Apr 14; 10(1): 11

Shah H, Shin AC. Meal patterns after bariatric surgery in mice and rats. *Appetite* (Special Issue on Bariatric Surgery – Invited Review), 2020 Mar 1; 146: 104340. Epub 2019 Jun 29.

Presentations

Oral:

Mattern MV, Gannaban RB, Zheng H, Townsend RL, Berthoud HR, **Shin AC**. Dissecting mechanisms for improved BCAA metabolism following RYGB surgery in diet-induced obese mice. ObesityWeek (online conference), November 2020

Poster:

Siddik MAB, Zabet-Moghaddam M, Jung K, Hegde V, **Shin AC**. BCAAs not only predict Alzheimer's disease, but also induce features of neuronal dysfunction. ObesityWeek (online conference), Nov 2020

Grants/funding

NIH R21 AG069140-01

BCAAs as a novel biomarker and treatment for Alzheimer's disease, Sep 2020 – Aug 2022
(PI: **Andrew C. Shin**) - \$415,355

Diabetes Action Foundation

Understanding BCAA regulation – a step toward deciphering diabetes, Jan 2021 – Dec 2021
(PI: **Andrew C. Shin**) - \$20,000

National Science Foundation (NSF) National I-Corps

Novel diagnostic tool and compound repurposing for early detection and alleviation of Alzheimer's disease, 2019 – 2021
(PI: **Andrew C. Shin**) - \$50,000

Scientific & Technological Research Council of Turkey

The effects of central and systemic irisin on glucose homeostasis in diet-induced obese mice, Nov 2020 – Oct 2022
(PI: Hale E. Egritag; **Co-PI: Andrew C. Shin**) - \$45,000

Undergraduate Research Experience Grant, College of Human Sciences, TTU

Role of BCAAs as a biomarker of Alzheimer's disease and their potential contribution to neuronal injury, 2020 – 2021. (PI: **Andrew C. Shin**; Students: Namratha Mohan, Luis Ledezma, Monica Reyes) - \$2,250

Open Access Initiative Award – Office of Research & Innovation, TTU, 2020 - \$1,000

Other Scholarly Activity

European Science Foundation

College of Expert Reviewers – Member and Reviewer, 2020 – Present

Research Foundation Flanders (FWO)

Review College – Member and Reviewer, 2020 – Present

Editorial Board

Nutrition & Diabetes – *Nature* (2019 – Present)

SINGH, Sharda

Publications

Sridharan V, Seawright JW, Landes RD, Cao M, Singh P, Davis CM, Mao X-W, Singh SP, Zhang X, Nelson GA, Boerma M (2020). Effects of single-dose protons or oxygen ions on function and structure of the cardiovascular system in male Long Evans rats. *Life Sciences in Space Research*. 2020;26:62-8. doi: 10.1016/j.lssr.2020.04.002.

Rajan A, Tonk S, Bose C, Singh SP, Swarup S, Chavali S, Bhende K, Palade P, Hindle A, Darden M, Tonk V, Awasthi S (2020). Chromosomal alterations of pediatric malignancy in a West Texas population. *The Southwest Respiratory and Critical Care Chronicles*. 8(33):7-20. doi: 10.12746/swrccc.v8i33.627.

Bose C, Yadav S, Singhal SS, Singhal J, Hindle A, Lee J, Cheedella NKS, Rehman S, Rahman RL, Jones C, Darden M, Palade PT, Berz D, Singh SP, Awasthi S (2020). Rlip Depletion Suppresses Growth of Breast Cancer. *Cancers* (Basel). 12(6). Epub 2020/06/06. doi: 10.3390/cancers12061446. PubMed PMID: 32498332.

Bose C, Alves I, Singh P, Palade PT, Carvalho E, Børsheim E, Jun S-R, Cheema A, Boerma M, Awasthi S, Singh SP. Sulforaphane prevents age-associated cardiac and muscular dysfunction through Nrf2 signaling. *Aging Cell*. 2020;n/a(n/a):e13261. doi: 10.1111/ace1.13261.

Jun SR, Cheema A, Bose C, Boerma M, Palade PT, Carvalho E, Awasthi S, Singh SP. Multi-Omic Analysis Reveals Different Effects of Sulforaphane on the Microbiome and Metabolome in Old Compared to Young Mice. *Microorganisms*. 2020;8(10). Epub 2020/10/03. doi: 10.3390/microorganisms8101500. PubMed PMID: 33003447.

Presentations

TACC1 is amplified in a wide range of pediatric malignancy. Singh SP, Santhosh Chavali, Chhanda Bose, Vijay Tonk, Sanjay Awasthi. AACR Meeting, April 24-29-, 2020.

Rlip76 overexpression and Gpx1 silencing in lung tumors. Singh SP, Srikala Meda, Jihyun Lee, William C. Green, Sanjay Awasthi. AACR Meeting, April 24-29-, 2020.

Grant awards

DoD W81XWH-18-1-0534 (Awasthi, PI; Singh, Co-I) 8/15/18 - 8/14/21

Prevention of Breast Cancer by Haploinsufficiency of RALBP1

Major goals: The proposed studies will determine for the first time if Rlip depletion strategy can be used in breast cancer prevention, and to determine how Rlip regulates the expression of key oncogenes and tumor suppressors.

Role: Co-Investigator

School of Medicine Research Seed Grant Program TTUHSC (Alan Peiris, PI; Singh, Co-I) 2018-2021

Treating Vitamin D Insufficiency in Community Dwelling Elderly to Improve Arterial Stiffness

Major goals: Improving outcomes is replacing Vitamin D early and our study population excludes subjects with established cardiovascular disease.

Role: Co-Investigator

School of Medicine Research Seed Grant Program TTUHSC (Sharda Singh, PI) 2020-2022
Support for clinical trial: L18-089, Phase II trial of effects of the Nutritional Supplement Sulforaphane on Doxorubicin-Associated Cardiac Dysfunction.

Nutramax Laboratories Consumer Care, Inc. 2208 Lakeside Boulevard Edgewood, MD 21040
(Sharda Singh, PI) 2020-2022
Support for clinical trial: LBB141682, Effects of the Nutritional Supplement Sulforaphane on Doxorubicin-metabolism in cancer patents.

SIZER, Phil

Publications

Wilhelm MP, Hooper TL, Seeber GH, Browne KL, Gilbert KK, James CR, Brismée JM, Matthijs OC, Matthijs A, Sizer PS. The relationship between measures of foot mobility and subtalar joint stiffness using vibration energy with color doppler imaging-A clinical proof-of-concept validation study. *PLOS One* 2020 (Aug). e0237634. doi: 10.1371/journal.pone.0237634. eCollection 2020.

Seeber GH, Wilhelm MP, Sizer PS^{*Δ}, Gutihkonda A, Matthijs A, Matthijs OC, Lazovic D, Brismée JM, Gilbert K^Δ. The tensile behaviors of the iliotibial band – a cadaveric investigation. *Int J Sports Phys Ther*, 2020 (May). 5(3): 451–459.

Seeber GH, Wilhelm MP, Sizer PS^{*Δ}, Gutihkonda A, Matthijs A, Matthijs OC, Lazovic D, Brismée JM, Gilbert K^Δ. The tensile behaviors of the iliotibial band – a cadaveric investigation. *Int J Sports Phys Ther*, 2020 (May). 5(3): 451–459.

Hallur SS, Brismée JM^{*Δ}, Sizer PS, Dierick F, Dewan B, Thiry P, Sobczak S. Three-dimensional spinal position with and without manual distraction load increases spinal height. *J Man Physiol Ther*, 2020 (May). DOI:<https://doi.org/10.1016/j.jmpt.2019.04.007>.

Mena-Iturriaga MJ, Mauri-Stecca MV, Sizer PS, Leppe J. Quality of Life in chronic musculoskeletal symptomatic Chilean population: Secondary analysis of National Health Survey 2009-2010. *BMC Musculoskeletal Disorders*. 2020 (April). 21: 262. doi: 10.1186/s12891-020-03261-x

Anderson TL, Brismée JM, Smith TM, Sizer PS, Hanks RS, Hooper TL, Gerke DA, Phelps V, Stinson LW. New fanwise subacromial corticosteroid injection technique for shoulder impingement: A preliminary prospective single-arm clinical trial. *eMedical Research*. 2020 (Jan);2,100003:1-11. <https://www.emresonline.org/open-access-pdf/new-fanwise-subacromial-corticosteroid-injection-technique-for-shoulder-impingement-a-preliminary-prospective-singlearm-clinical-100003.pdf>

Seeber GH, Lierly M, Bassett C, Douthit C, Wilhelm M, Matthijs A, Matthijs O, Lazovic D, Brismée JM, Gilbert K, Sizer P Jr. The constraining effect of the lateral femoral intermuscular septum on passive hip adduction in Un-embalmed cadavers. *Int J Sports Phys Ther*. 2020

(Feb); 15(1):42-52.

Davis AJ, Wilhelm MP, Pendergrass TJ, Sechrist DA, Brismée JM, Sizer PS, Gilbert KK*^Δ. Anatomical relationship of palmar carpal bone landmarks used in locating the lunate and capitate during palpation: A cadaveric investigation. *J Hand Ther.* 2019 (Oct-Dec); 32(4):463-469.

Besomi M*, Leppe J, Mauri-Stecca V, Hooper T, Sizer P. Training volume and previous injury as associated factors for running-related injuries by race distance: a cross-sectional study. *J Sport Health Sci.* 2020 (Oct); DOI:10.14198/JHSE.2019.143.06.

Research Platform Presentations

Gehring R, Brismée JM, Sizer P, Gilbert K, Potter-Brunet J. “Neurodynamic treatment for neurogenic claudication with lumbar spinal stenosis” APTA Combined Sections Meeting, Denver, CO, February, 2020.

Vargo A, Sizer P, Kearns G, McGaugh J, Allen B. Teaching advanced cervical and thoracic manual physical therapy to students in a continuing education format. APTA Combined Sections Meeting, Denver, CO, February, 2020.

Dice JL, Dendy D, Sizer PS, Cook CE, Feuling S, Brismée JM. “Manual Therapy in Pediatrics: A Delphi Investigation of United States Physical Therapists” APTA Combined Sections Meeting, Denver, CO, February, 2020.

Vargo A, Sizer P, Kearns G, McGaugh J, Allen B. Teaching advanced cervical and thoracic manual physical therapy to students in a continuing education format. AAOMPT National Conference, Orlando, FL, October, 2019.

Gan J, Brismée JM, Bösch D, Kearns G, Sizer PS, Pitance L, Maranzano J, Sobczak S. “Accuracy of a Novel Approach to Dry Needle Placement in the Lateral Pterygoid Muscle in Cadavers” AAOMPT National Conference, Orlando, FL, October, 2019.

Dice JL, Dendy D, Sizer PS, Cook CE, Feuling S, Brismée JM. “Manual Therapy in Pediatrics: A Delphi Investigation of United States Physical Therapists” AAOMPT National Conference, Orlando, FL, October, 2019.

Froment FP*, Olson KA, Hooper TL, Shaffer SM, Sizer PS, Woodhouse LJ, Brismée JM. “Musculoskeletal Advanced Physiotherapy Scope of Practice: An International Exploratory Survey Throughout WCPT Member Organizations”. AAOMPT National Conference, Orlando, FL, October, 2019.

Research Poster Presentations

Seeber GH, Lierly M, Bassett C, Douthit C, Wilhelm MP, Lazovic D, Brismee J-M, Gilbert KK, Sizer PS Jr. Der Limitierende Einfluss des Lateralen Intermuskulären Septums auf die Passive Hüftadduktion - eine Präparatstudie. Poster presentation at the 68. Jahrestagung der

Vereinigung Süddeutscher Orthopäden und Unfallchirurgen e.V., Baden-Baden, Germany, May 1, 2020.

[Seeber GH](#), Wilhelm MP, Guthikonda A, Lazovic D, Brismee J-M, Gilbert KK, Sizer PS Jr. Das Biomechanische Verhalten des Iliotibialbandes unter Zug - eine Präparatstudie. Poster presentation at the 68. Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen e.V., Baden-Baden, Germany, May 1, 2020..

[Drusch A](#), McCormick J, Hooper T, Allen B, O'Connell D, Vintimilla A, Sizer P. The effect of a volitional preemptive abdominal contraction on biomechanical measures during a front versus back loaded barbell squat. Student Research Week, Lubbock, TX, USA, March, 2020.

[Vintimilla A](#), Lynch D, Drusch A, Hooper T, James CR, Brooks T, Sizer P. Biomechanical response to a volitional preemptive abdominal contraction and stabilization belt use during a loaded squat. Student Research Week, Lubbock, TX, USA, March, 2020.

[Khalid S](#), Garcia L, Kunkel B, Drusch A, Hooper T, Kublawi M, Brismee J, Yang H, Sizer P. Effect of executive cognitive distraction on sustaining a volitional preemptive abdominal contraction during a unipodal functional movement in healthy subjects. Student Research Week, Lubbock, TX, USA, March, 2020.

[Natesan K](#), Drusch A, Garcia L, Hooper T, Kublawi M, Brismee J, Yang H, Sizer P. Effect of volitional preemptive abdominal contraction on superficial multifidus response during a unipodal lower extremity reach task in healthy subjects. Student Research Week, Lubbock, TX, USA, March, 2020.

[Dice JL*](#), Dendy D, Sizer PS, Cook CE, Feuling S, Brismée JM. Manual therapy in pediatrics: A delphi investigation of united states physical therapists. APTA Combined Section Meeting, Denver, CO, USA, February, 2020.

[Gehring R](#), Potter-Brunet J, Gilbert K, Sizer PS, Brismée JM. Neurodynamic treatment for neurogenic claudication related to lumbar spinal stenosis: Case series with 3-month follow-up. APTA Combined Section Meeting, Denver, CO, USA, February, 2020.

[Seeber GH](#), Lierly M, Bassett C, Douthit C, Wilhelm M, Sargent E, Browne K, Lazovic D, Brismée JM, Gilbert KK, Sizer PS. The constraining effect of the lateral femoral intermuscular septum on passive hip adduction in un-embalmed cadavers. 4th Forschungssymposium Physiotherapie; November 22-23, Hildesheim, Germany, 2019.

Poster. TTUHSC SHP Endowed Lecture Series, October 3, 2019 (6 total)

Cooper K, Garcia L, Kunkel B, Hooper T, Drusch A, Kublawi M, Brismee J, Sargent E, Wilhelm M, Yang H, Gan J, Sizer P. The Effect of Executive Cognitive Distraction on Sustaining a Volitional Preemptive Abdominal Contraction During a Unipodal Functional Movement in Healthy Subjects.

Drusch A, Garcia L, Kunkel B, Hooper T, Kublawi M, Brismee J, Yang H, Sizer P. Effect of Volitional Preemptive Abdominal Contraction on Superficial Multifidus Response During Unipodal Lower Extremity Reach Task in Healthy Subjects.

Froment FP, Olson KA, Hooper TL, Shaffer SM, Sizer PS, Woodhouse LJ, Brismée JM. Direct Access Advantage for Musculoskeletal Physiotherapy Scope of Practice Throughout WCPT and IFOMPT Affiliated Countries.

Dice JL, Dendy D, Sizer PS, Cook CE, Feuling S, Brismée JM. Use of Manual Therapy in Children: A United States Physical Therapy Delphi Investigation.

Pepper T, Brismee JM, Sizer PS, Kapila J, Seeber G, Hooper TL. The immediate effects of foam rolling and stretching on iliotibial band stiffness: a randomized control trial.

Gehring R, Potter-Brunet J, Gilbert K, Sizer P, Brismée JM. Neurodynamic Treatment For Neurogenic Claudication Related To Lumbar Spinal Stenosis: A Case Series.

Submitted External Grant Activity

Co-Principal Investigator: National Science Foundation (NSF) ACTx Grant Proposal for \$15Mil (TTUHSC section \$825,000). SUBMITTED in collaboration with TTU and [6] other Universities across Texas: UTA, UTD, UTSW, UTGRV, TSU, UH. Status: Submitted 8-10-20

SONG, Huaxin

Publication

Song, H., Hughes, J. R., Turner, R. T., Iwaniec, U. T., Doerge, D. R., & Helferich, W. G. (2020). (±)-Equol does not interact with genistein on estrogen-dependent breast tumor growth. *Food and Chemical Toxicology*, 136, 110979.

Grant awards

HRSA-UD7HP37639 PD: Linda McMurry 07/2020-06/2023
Nurse Education, Practice, Quality, and Retention Interprofessional Collaborative Practice
Funding Agency: HRSA
Role: Program evaluator/Statistician, Data Manager

ST-JOHN, Julie

On-going Research Project

Assessing Nurse Practitioners' (NPs) Attitudes and Use of Complementary and Alternative Medicine (CAM) Practices for Pain Management. Role: Co-investigator.

SUN, Grace

On-going Research Project

Assessing Nurse Practitioners' (NPs) Attitudes and Use of Complementary and Alternative Medicine (CAM) Practices for Pain Management. Role: PI.

TINSLEY, grant

Publications

Articles displayed in reverse chronological order. Only Pubmed-indexed articles are displayed, and article information is automatically retrieved from PubMed. Notes: *corresponding author. †student researcher from GMT's laboratory

P. S. Harty, H. A. Zabriskie, R. A. Stecker, B. S. Currier, G.M. Tinsley, K. Surowiec, A. R. Jagim, S. R. Richmond, and C. M. Kerksick. "Caffeine Timing Improves Lower-Body Muscular Performance: A Randomized Trial". *Frontiers in Nutrition* 7 (2020), p. 585900. ISSN: 2296-861X. DOI: <https://doi.org/10.3389/fnut.2020.585900>. PMID: 33330586.

T. Moro, G. Tinsley, G. Longo, D. Grigoletto, A. Bianco, C. Ferraris, M. Guglielmetti, A. Veneto, A. Tagliabue, G. Marcolin, and A. Paoli. "Time-restricted eating effects on performance, immune function, and body composition in elite cyclists: a randomized controlled trial". *Journal of the International Society of Sports Nutrition* 17.1 (2020), p. 65. ISSN: 1550-2783. DOI: <https://doi.org/10.1186/s12970-020-00396-z>. PMID: 33308259.

R. C. O. Macedo, H. O. Santos, G. M. Tinsley, and A. Reischak-Oliveira. "Low-carbohydrate diets: Effects on metabolism and exercise - A comprehensive literature review". *Clinical Nutrition ESPEN* 40 (2020), pp. 17-26. ISSN: 2405-4577. DOI: <https://doi.org/10.1016/j.clnesp.2020.07.022>. PMID: 33183532

H. O. Santos, G. M. Tinsley, G. A. R. da Silva, and A. A. Bueno. "Pharmacconutrition in the Clinical Management of COVID-19: A Lack of Evidence-Based Research But Clues to Personalized Prescription". *Journal of personalized medicine* 10.4 (2020). ISSN: 2075-4426. DOI: <https://doi.org/10.3390/jpm10040145>. PMID: 32992693

H. O. Santos, R. Genario, R. C. O. Macedo, M. Pareek, and G. M. Tinsley. "Association of breakfast skipping with cardiovascular outcomes and cardiometabolic risk factors: an updated review of clinical evidence". *Critical Reviews in Food Science and Nutrition* (2020), pp. 1-9. ISSN: 1549-7852. DOI: <https://doi.org/10.1080/10408398.2020.1819768>. PMID: 32935557.

G. M. Tinsley * . "Five-Component Model Validation of Reference, Laboratory, and Field Methods of Body Composition Assessment". *The British Journal of Nutrition* (2020), pp. 1-38. ISSN: 1475-2662. DOI: <https://doi.org/10.1017/S0007114520003578>. PMID: 32921319.

B. J. Schoenfeld, A. Alto, J. Grgic, G. Tinsley, C. T. Haun, B. I. Campbell, G. Escalante, G. T. Sonmez, G. Cote, A. Francis, and E. T. Trexler. "Alterations in Body Composition, Resting Metabolic Rate, Muscular Strength, and Eating Behavior in Response to Natural Bodybuilding Competition Preparation: A Case Study". *Journal of Strength and Conditioning Research* (2020). ISSN: 1533-4287. DOI: <https://doi.org/10.1519/JSC.0000000000003816>. PMID: 32898035.

G. M. Tinsley * , A. E. Smith-Ryan, Y. Kim, M. N. M. Blue, B. S. Nickerson, M. T. Stratton † , and P. S. Harty † . "Fat-free mass characteristics vary based on sex, race, and weight status in US adults". *Nutrition Research* 81 (2020), pp. 58-70. ISSN: 1879-0739. DOI: <https://doi.org/10.1016/j.nutres.2020.07.002>. PMID: 32882467.

P. S. Harty † , M. T. Stratton † , G. Escalante, C. Rodriguez † , J. R. Dellinger † , A. D. Williams † , S. J. White † , R. W. Smith † , B. A. Johnson † , M. B. Sanders † , and G. M. Tinsley * . “Effects of Bang® Keto Coffee Energy Drink on Metabolism and Exercise Performance in Resistance-Trained Adults: A Randomized, Double-blind, Placebo-controlled, Crossover Study”. *Journal of the International Society of Sports Nutrition* 17.1 (2020), p. 45. ISSN: 1550-2783. DOI: <https://doi.org/10.1186/s12970-020-00374-5>. PMID: 32831109.

G. M. Tinsley * , C. Rodriguez † , S. J. White † , A. D. Williams † , M. T. Stratton † , P. S. Harty † , R. W. Smith † , J. R. Dellinger † , and B. A. Johnson † . “A Field-based Three-Compartment Model Derived from Ultrasonography and Bioimpedance for Estimating Body Composition Changes”. *Medicine and Science in Sports and Exercise* (2020). ISSN: 1530-0315. DOI: <https://doi.org/10.1249/MSS.0000000000002491>. PMID: 32804903.

J. do Nascimento Queiroz, R. C. O. Macedo, G. M. Tinsley, and A. Reischak-Oliveira. “Time-restricted eating and circadian rhythms: the biological clock is ticking”. *Critical Reviews in Food Science and Nutrition* (2020), pp. 1-13. ISSN: 1549-7852. DOI: <https://doi.org/10.1080/10408398.2020.1789550>. PMID: 32662279.

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R. Bagheri, B. H. Moghadam, E. Jo, G. M. Tinsley, M. T. Stratton † , D. A. Larky, M. Eskandari, and A. Wong. “Comparison of whole egg vs. egg white ingestion during 12 weeks of resistance training on skeletal muscle regulatory markers in resistance-trained men”. *The British Journal of Nutrition* (2020), pp. 1-20. ISSN: 1475-2662. DOI: <https://doi.org/10.1017/S0007114520002238>. PMID: 32576297.

G. M. Tinsley * , M. L. Moore † , Z. Rafi, N. Griffiths, P. S. Harty † , M. T. Stratton † , M. L. Benavides † , J. R. Dellinger † , and B. T. Adamson † . “Explaining Discrepancies Between Total and Segmental DXA and BIA Body Composition Estimates Using Bayesian Regression”. *Journal of Clinical Densitometry* (2020). ISSN: 1094-6950. DOI: <https://doi.org/10.1016/j.jocd.2020.05.003>. PMID: 32571645.

H. Meng, L. Zhu, H. Kord-Varkaneh, H. O. Santos, G. M. Tinsley, and P. Fu. “Effects of intermittent fasting and energy-restricted diets on lipid profile: A systematic review and meta-analysis”. *Nutrition* 77 (2020), p. 110801. ISSN: 1873-1244. DOI: <https://doi.org/10.1016/j.nut.2020.110801>. PMID: 32428841.

R. Jäger, J. Zaragoza, M. Purpura, S. Iametti, M. Marengo, G. M. Tinsley, A. J. Anzalone, J. M. Oliver, W. Fiore, A. Biffi, S. Urbina, and L. Taylor. “Probiotic Administration Increases Amino Acid Absorption from Plant Protein: a Placebo-Controlled, Randomized, Double-Blind, Multicenter, Crossover Study”. *Probiotics and Antimicrobial Proteins* (2020). ISSN: 1867-1314. DOI: <https://doi.org/10.1007/s12602-020-09656-5>. PMID: 32358640.

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M. T. Stratton † , G. M. Tinsley, M. G. Alesi, G. M. Hester, A. A. Olmos, P. R. Serafini, A. S. Modjeski, G. T. Mangine, K. King, S. N. Savage, A. T. Webb, and T. A. VanDusseldorp. “Four Weeks of Time-Restricted Feeding Combined with Resistance Training Does Not Differentially Influence Measures of Body Composition, Muscle Performance, Resting Energy Expenditure, and Blood Biomarkers”. *Nutrients* 12.4 (2020). ISSN: 2072-6643. DOI: <https://doi.org/10.3390/nu12041126>. PMID: 32316561.

P. S. Harty † , B. Sieglinger, S. B. Heymsfield, J. A. Shepherd, D. Bruner, M. T. Stratton † , and G. M. Tinsley * . “Novel body fat estimation using machine learning and 3-dimensional optical imaging”. *European Journal of Clinical Nutrition* (2020). ISSN: 1476-5640. DOI: <https://doi.org/10.1038/s41430-020-0603-x>. PMID: 32203233.

J. Grgic, C. Pickering, D. J. Bishop, J. D. Coso, B. J. Schoenfeld, G. M. Tinsley, and Z. Pedisic. “ADORA2A C Allele Carriers Exhibit Ergogenic Responses to Caffeine Supplementation”. *Nutrients* 12.3 (2020). ISSN: 2072-6643. DOI: <https://doi.org/10.3390/nu12030741> PMID: 32168870.

A. Aryaie, G. Tinsley, J. Lee, B. A. Watkins, L. Moore, A. Alhaj-Saleh, K. Shankar, S. R. Wood, R. Wang, and C. Shen. “Actions of annatto-extracted tocotrienol supplementation on obese postmenopausal women: study protocol for a double-blinded, placebo-controlled, randomised trial”. *BMJ Open* 10.3 (2020), p. e034338. ISSN: 2044-6055. DOI: <https://doi.org/10.1136/bmjopen-2019-034338>. PMID: 32152169.

G. M. Tinsley * , M. L. Moore † , M. L. Benavides † , J. R. Dellinger † , and B. T. Adamson † . “3-Dimensional optical scanning for body composition assessment: A 4-component model comparison of four commercially available scanners”. *Clinical Nutrition* (2020). ISSN: 1532-1983. DOI: <https://doi.org/10.1016/j.clnu.2020.02.008>. PMID: 32113641.

B. S. Nickerson, G. M. Tinsley, M. V. Fedewa, and M. R. Esco. “Fat-free mass characteristics of Hispanic adults: Comparisons with non-Hispanic Caucasians and cadaver reference values”. *Clinical Nutrition* (2020). ISSN: 1532-1983. DOI: <https://doi.org/10.1016/j.clnu.2020.01.013>. PMID: 32057536.

R. Bagheri, B. H. Moghadam, D. D. Church, G. M. Tinsley, M. Eskandari, B. H. Moghadam, M. S. Motevalli, J. S. Baker, R. A. Robergs, and A. Wong. “The effects of concurrent training order on body composition and serum concentrations of follistatin, myostatin and GDF11 in sarcopenic elderly men”. *Experimental Gerontology* 133 (2020), p. 110869. ISSN: 1873-6815. DOI: <https://doi.org/10.1016/j.exger.2020.110869>. PMID: 32035222.

Grant awards

2021 Influence of Caffeinated and Non-caffeinated Pre-workout Supplements on Resistance Exercise Performance Legion Athletics, Inc. Role: Lead Principal Investigator Amount: \$20,000

2020 2021 Evaluation of Novel Beverage Formulations for Hydration Enhancement in Humans: A Pilot Study 8 POiNT, LLC Role: Lead Principal Investigator Amount: \$43,494

2020 2021 The Influence of Creatine Monohydrate Supplementation on Testosterone, Dihydrotestosterone, and Hair Loss (A20-0119-001) Legion Athletics, Inc. Role: Lead Principal Investigator Amount: \$32,271

2020 Effects of a Caffeine- and Protein-Containing Coffee Beverage on Metabolism and Muscular Performance (A20-0134-001) Vital Pharmaceuticals, Inc. Role: Lead Principal Investigator Amount: \$20,000

Podcast Interview

“Intermittent Fasting: New Findings in Health and Performance.” Plenary session. Approximate attendance: 100. Duration: 1 hour. □ Colombia (Online) International Society of Sports Nutrition

The Health Scientist Invited guest for “Episode 50 - Grant Tinsley: Intermittent fasting, fat loss and performance”.

Invited guest for “Episode 96 - Meal Timing, Intermittent Fasting, & Time Restricted Feeding”.

Invited guest for “Episode 90 - Sarcoplasmic Hypertrophy & Body Composition Roundtable” Guest Presentation for Introduction to Kinesiology Course. “A Career as a Professor.”

Social Medica Interview: Astrid Naranjo (Anti-Diet Dietitian) “Time-Restricted Feeding and Intermittent Fasting.” Interview Conducted on Instagram Live

Abstracts

Displayed in reverse chronological order. †=student author from GMT’s laboratory

Zaragoza J, Urbina S, Purpura M, Jäger R, Tinsley G, Stone J, Askow A, Oliver J, Taylor L. “Probiotic administration increases amino acid absorption from plant protein – A placebocontrolled, randomized, double-blind, multicenter, crossover study.” The FASEB Journal. Forthcoming.

Harty P † , Surowiec K, Tinsley G, Zabriskie H, Stecker R, Currier B, Moon J, Richmond S, Jagim A, Kerksick C. “Practical Timing Strategies to Optimize Plasma Caffeine Concentration Prior to Exercise”. Journal of Strength & Conditioning Research. Forthcoming.

Stratton M† , Harty P † , Smith R† , Rodriguez C† , Williams A † , White S † , Dellinger J † , Johnson B † , Benavides M† , Tinsley G. “A Comparison Between Alterations in Ultrasound-derived Muscle Thickness and Dual-energy X-ray Absorptiometry Segmental Lean Mass”. Journal of Strength & Conditioning Research. Forthcoming.

Harty P † , Stratton M† , Griffiths N, Moore M† , Benavides M† , Dellinger J † , Adamson B † , Tinsley G. “Physiological and Anthropometric Predictors of Discrepancies Between Bioelectrical Impedance Analysis and Dual-Energy X-Ray Absorptiometry”. Medicine & Science in Sports & Exercise. Forthcoming.

Stratton M† , Harty P † , Moore M† , Griffiths N, Dellinger J † , Benavides M† , Adamson B † , Tinsley G. “Explaining Segmental Lean Soft Tissue Discrepancies Between Bioelectrical Impedance Analysis and Dual-Energy X-Ray Absorptiometry”. Medicine & Science in Sports & Exercise. Forthcoming.

Stratton M† , Tinsley G, Alesi M, Hester G, Olmos A, Serifini P, Modjeski A, Mangine G, King K, Savage S, Webb A, VanDusseldorp T. “The Effect of Time-Restricted Feeding in Combination with Resistance Training on Measures of Body Composition, Muscle Performance, Resting

Energy Expenditure, and Blood Biomarkers". Journal of the International Society of Sports Nutrition. 2020;17(1):23. <https://doi.org/10.1186/s12970-020-00352-x>.

Dellinger † , Johnson B † , Stratton M† , Harty P † , Benavides M† , White S † , Williams A † , Smith R† , Tinsley G. "Influence of Acute Water Ingestion on Bioelectrical Impedance Analysis Estimates of Body Composition". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/23>.

White S † , Harty P † , Stratton M† , Dellinger J † , Johnson B † , Smith R† , Williams A † , Benavides M† , Tinsley G. "Tracking Resistance Training-Induced Changes in Body Composition via 3-Dimensional Optical Scanning". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/20>.

Wong R, Barker J, Berreth T, Fox R, Maldonado M, Vancleave C, Zaragoza J, Tinnin M, Tinsley G, Taylor L, Brennan K. "The Effects Of Acute Resistance Exercise On Bioelectrical Impedance Analysis Measures Of Body Composition". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/155>.

Harty P † , Stratton M† , Johnson B † , Dellinger J † , Benavides M† , Smith R† , White S † , Williams A † , Rodriguez C† , Tinsley G. "Influence of Subject Presentation on Body Composition Estimates from Dual-Energy X-Ray Absorptiometry, Air Displacement Plethysmography, and Bioelectrical Impedance Analysis". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/68>.

Benavides M† , Johnson B † , Harty P † , Stratton M† , Dellinger J † , Smith R† , Williams A † , Rodriguez C† , White S † , Tinsley G. "Impact of Fluid Consumption on Estimates of Intracellular, Extracellular, and Total Body Water from Multi-Frequency Bioelectrical Impedance Analysis". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/97>.

Barker J, Berreth T, Fox R, Maldonado M, Vancleave C, Wong R, Zaragoza J, Tinnin M, Tinsley G, Taylor L, Brennan K. "The Effects Of Acute Resistance Exercise On Dual-Energy X-Ray Absorptiometry Measure Of Body Composition". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/157>.

Birdsell D, Tinsley G, Zaragoza J, Tinnin M, Prather J, Harrison C, Smith S, Lockwood C, Taylor L. "Comparison of Bioimpedance Analysis and Dual Energy X-Ray Absorptiometry in Division III Football Athletes". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/76>.

Stratton M† , Harty P † , Smith R† , Dellinger J † , Johnson B † , Benavides M† , Williams A † , White S † , Rodriguez C† , Tinsley G. "Body Fat Gain Automatically Increases Lean Mass by Changing the Fat-Free Component of Adipose Tissue". International Journal of Exercise Science: Conference Proceedings. 2020;2(12). <https://digitalcommons.wku.edu/ijesab/vol2/iss12/49>. 15.

Williams A † , Tinsley G, Stratton M† , Harty P † , Benavides M† , White S † , Johnson B † , Smith R† , Dellinger J † , Rodriguez C† . "Agreement Between 4-Compartment Model and 7-Site Ultrasonography for Tracking Weight Training-Induced Changes in Body Composition".

International Journal of Exercise Science: Conference Proceedings. 2020;2(12).
<https://digitalcommons.wku.edu/ijesab/vol2/iss12/21>.

Smith R† , Harty P † , Stratton M† , Dellinger J † , Benavides M† , Johnson B † , Williams A † , White S † , Rodriguez C† , Vincent B † , Tinsley G. "Relationship Between Rate and Composition of Mass Gain During Overfeeding Plus Resistance Training". International Journal of Exercise Science: Conference Proceedings. 2020;2(12).
<https://digitalcommons.wku.edu/ijesab/vol2/iss12/28>.

Rodriguez C† , Smith R† , Stratton M† , Harty P † , Johnson B † , Dellinger J † , Benavides M† , Vincent B † , Williams A † , White S † , Tinsley G. "Relationship Between Muscular Performance Changes and Increases in Body Mass During Overfeeding Plus Resistance Training". International Journal of Exercise Science: Conference Proceedings. 2020;2(12).
<https://digitalcommons.wku.edu/ijesab/vol2/iss12/33>

VELLERS, Heather

Publications

Vellers, H.L., Verhein, K.C., Burkholder, A.B., Lee, L., Kim, Y., Lightfoot, J.T., Shi, M., Weinberg, C.R., Sarzynski, M.A., Bouchard, C., Kleeberger, S.R. Association between Mitochondrial DNA Sequence Variants and VO₂ max Trainability (2020). Editor's Pick, *Medicine & Science in Sports & Exercise*, 52(11), 2303-2309. This manuscript was selected as a highlighted Active Voice commentary for the ACSM Sports Medicine Bulletin.

Vellers, H.L., Massett, M.P., Avila, J.J., Kim, S.K., Marzec, M., Santos, J.H., Lightfoot, J.T., Kleeberger, S.R. Mitochondrial DNA Lesions and Copy Number are Strain Dependent in Endurance-Trained Mice (2020). *Physiological Reports*, 8:e14605.

Letsinger, A. C., Menon, R., Iyer, A. R., Vellers, H. L., Granados, J. Z., Jayaraman, A., & Lightfoot, J. T. (2020). A High Fat/High Sugar Diet Alters the Gastrointestinal Metabolome in a Sex Dependent Manner. *Metabolites*, 10(10), 421.

Gonzales, J. U., Fischer, S. M., Maharaj, A., Vellers, H.L., Anderson, T., Karnjanapiboonwong, A., Subbiah, S., Kellawan, J. M., & Figueroa, A. Response of exercise-onset vasodilator kinetics to L-citrulline supplementation during different phases of the menstrual cycle (2020). *Physiological reports*, 8(15), e14536.

Presentations

Oral:

Invited Speaker, *Do our Mothers Determine Aerobic Capacity Trainability? Potential Role of the Mitochondrial Genome on Aerobic Capacity Trainability*, Center for Translational Research in Aging and Longevity and Department of Health and Kinesiology Fall 2020 Seminar, Texas A&M University. (November 6, 2020).

Invited Speaker*, *Association between Mitochondrial Genome Dynamics with Endurance Exercise Trainability in Mice and Humans*, Sam and Ann Barshop Institute Spring 2020 Seminar Series, San Antonio Nathan Shock Center, University of Texas Health Science Center at San

Antonio. (May 6, 2020). *Due to the COVID-19 pandemic, this in-person presentation was rescheduled as a webinar.

Invited Speaker*, *Association between Mitochondrial DNA Sequence Variants and Aerobic Capacity Trainability in Mice and Humans*, Department of Toxicology, Texas A&M University. (April 6, 2020). *Due to the COVID-19 pandemic, this in-person presentation was rescheduled as a webinar.

Poster:

Hamed Khedmatgozar*, MP Massett, Mohamed Fokar, JT Lightfoot, SR Kleeberger and HL Vellers. *Influence of Genetic Background on Heart Mitochondrial DNA Lesions and Copy Number in Inbred Mice*. American College of Sports Medicine Conference 2020.

Chwan-Li Shen, R Wang, Guangchen Ji, HL Vellers, Shengmin Sang, Volker Neugebauer. *Dietary Supplementation of Gingerols- and Shogaols-Enriched Ginger Root Extracts Attenuate Pain-Associated Behaviors in Animals with Spinal Nerve Ligation*. Nutrition 2020.

Grant awards

Principal Investigator – (80% effort) *Role of Genetic Background on Age-Related Changes in Mitochondrial Genome Dynamics: Influence of Aerobic Exercise*. National Institute of Aging Nathan Shock Center New Investigator Pilot Award. San Antonio Nathan Shock Center. \$30,000.

Co-Investigator – (10% effort; Dr. Joaquin Gonzales, PI) *Effect of Pulsatile Pressure and Long Sleep Duration on Cerebral Vascular Function*. American Heart Association. \$197,451.

ZHANG, Fangyuan

Publication

Wang, D., Wang, T., Gill, A., Hilliard, T., Chen, F., Karamyshev, A., Zhang, F. (2020). Uncovering the cellular capacity for intensive and specific feedback self-control of the argonates and MicroRNA targeting activity. *Nucleic Acids Research*, 48(9), 4681–4697.

Zhang, F., Lin, S. (2020). Incorporating information from markers in LD with test locus for detecting imprinting and maternal effects. *European Journal of Human Genetics*, 28, 1087–1097.

Dennis, J., Zhang, Y., Zhang, F., Mi, N., Cruz, N., Hannabas, G. (in press). Gender differences in stroke hospitalization incidence, 30-day mortality, and readmission in a regional medical center in the southwestern United States. *SOUTHERN MEDICAL JOURNAL*.

Zumwalt, Mini

Publications

Zumwalt MA. Gender Gap in Painful Knees: PFJ & ACL - “Odd Couple”/Biomechanics & Neuromuscular Differences between Females & Males. *Women in Sport and Physical Activity Journal*, 2020.

William H M, Christian D, Zumwalt MA. Reconstruction of Subacute Pectoralis Major Tendon Rupture from CrossFit Injury: Case Report and Literature Review. *Journal of Musculoskeletal Disorders and Treatment*, 6(1):, 2020.

Douthit C, Miers H, Zumwalt MA. Chest Wall Injury-CrossFit. *Medicine & Science in Sports & Exercise*, 52(7S): 543-5434, July 2020.

John A, Ha F, Zumwalt MA. Susceptibility/manifestations of different age groups with various comorbidities to COVID-19 infection. *The Southwest Respiratory and Critical Care Chronicles*, 8(35): 7-16, July 2020.

Kharbat A, Mizer A, Zumwalt MA. Decontamination methods of personal protective equipment for repeated utilization in medical/surgical settings. *The Southwest Respiratory and Critical Care Chronicles*, 8(34): 27-39, April 2020.

Rossettie S, Perry C, Pourghaed M, Zumwalt MA. Effectiveness of manufactured surgical masks, respirators, and home-made masks in prevention of respiratory infection due to airborne microorganisms. *The Southwest Respiratory and Critical Care Chronicles*, 8(34): 11-26, April 2020.

Amanda P, Alesia V, Katerina K, Zumwalt MA. Unique Case of 32-Year-Old Male Presenting with Angiolipoma of an ACL Hamstrings Autograft. *Journal of Musculoskeletal Disorders and Treatment*, 6(2):, April 2020.

Zumwalt MA, Reddy A. Stem Cells for Treatment of Musculoskeletal Conditions - Orthopaedic/Sports Medicine Applications. *Biochimica et biophysica acta. Molecular basis of disease*, 1866(4): 165624, April 1, 2020.

Weaver A, Kellar K, Miers H, Buttler R, Ashraf A, Woolridge A, Dasaraju A, Chappa J, Ferguson M, Brindley G, Watkins P, Zumwalt MA. Gender and Ethnic Differences in Seeking Healthcare Plus Time of Recovery from Procedures for Shoulder and Knee Conditions. *J Musculoskelet Disord Treat*, 6: 071, January 2020.

Presentations

Rossetti S, Mizer A, Zumwalt MA. Alternative Treatment for the Active Female with Musculoskeletal Pain., 2020. (Peer Reviewed)

Pourghaed M, Perry C, McComb J, Zumwalt MA. Exercise & Nutritional Guidelines for Weight Management in the Obese Female., 2020. (Peer Reviewed)

Osemwengie B, Umelo J, Mwangi L, Johnson EL, Zumwalt MA. Intramedullary Nailing vs LISS in Distal Femur Fractures., 2020. (Peer Reviewed)

Osemwengie B, Umelo J, Mwangi L, Johnson EL, Zumwalt MA. Minimally Invasive vs Open Surgery for Management of Achilles Tendon Rupture., 2020. (Peer Reviewed)

Kharbat A, Zumwalt MA. Motor Cortex Control of Posture., 2020. (Peer Reviewed)

Osemwengie B, Umelo J, Mwangi L, Johnson EL, Zumwalt MA. Operative vs Non-Operative Management of Achilles Rupture., 2020. (Peer Reviewed)

Miears H, Zumwalt MA, et al. Gender and Ethnic Differences in Seeking Healthcare Plus Time of Recovery from Procedures for Shoulder and Knee Conditions. 4th Annual Mayo Clinic Sports Medicine for the Primary Care Clinician, Orlando, Florida, March 2020. (Peer Reviewed)

Miears H, Douthit C, Zumwalt MA. Pectoralis Tendon Rupture from A/Typical Injury Mechanism- A Report of Two Cases. 4th Annual Mayo Clinic Sports Medicine for the Primary Care Clinician, Orlando, Florida, March 2020. (Peer Reviewed)

Rounds A, Zumwalt MA. Prevention & Management of Osteoporosis through Exercise. 4th Annual Mayo Clinic Sports Medicine for the Primary Care Clinician, Orlando, Florida, March 2020. (Peer Reviewed)

Zumwalt MA. Osteoporosis & the Female Athlete. Annual Conference, Texas Orthopaedic Association/Texas Orthopaedic Foundation (TOA/TOF), San Antonio, Texas, February 2020. (Peer Reviewed)

Grant Awards

Tai Chi for pain management: a pilot mechanistic study

Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC.

Shen CL (PI). The goal of this study is to collect preliminary data on how Tai Chi may help with pain management of postmenopausal women with knee osteoarthritis and explore the molecular mechanism. \$18,000 from CTNT. \$6,000 matching fund Texas Tech University Neuroimaging Institute (TTNI). 12/1/2018-11/30/2021.

Al-Rahawan, Mohamed

Publications

Papers in Preparation:

Dhir N; Chandrahas S; Hanson K; IgbaseimokumoU; NagyL; BelirgenM; O'SuojiC; Al-RahawanMM. Treatment of Children with BRAF-V600E Positive Brain Tumors Using BRAF and MEK Inhibitors: A Case Series. Journal of Neuro-Oncology. 2021. In review

Eldem I, Al MadniO, LeventF, AlmekdashMH, Al-Rahawan MM. Red blood cell distribution width, analysis in osteomyelitis: Can it be an inflammatory marker?

Barr EK, Al-RahawanMM, Yang J, Wang C; Aldag JC, de Alarcon PA, West N, Hinds PS, Rubnitz JE, Daw NC. Anemia and Health-Related Quality of Life in Pediatric Patients Undergoing Treatment for Acute Myeloid Leukemia or Osteosarcoma.

Urias E, McLaurinL, Higgins J, Suma P, ShankarS, Al-Rahawan MM, RauenKA; Costello Syndrome and Pancreatitis: Possible Expansion of the Phenotype.

Presentations/Posters

October 2021 Pediatric ECMO training: Anticoagulation during ECMO; Covenant Children's Hospital, Lubbock, TX

October 2021 Annual Oncology Nursing Society Meeting: Managing complexities of Pediatric Oncology. ONS Lubbock Chapter, Lubbock, TX

September 2021 Poster: Evaluating urine pH and specific gravity: A single center experience comparing different urine testing methods in children receiving high-dose methotrexate; The Society of Hematologic Oncology's Ninth Annual Meeting; Houston, TX; Presented by the first author, Joanna Chyu, MS-I.

May 2021 Poster: Evaluating urine pH and specific gravity: A single center experience comparing different urine testing methods in children receiving high-dose methotrexate; University of Texas Medical Branch; 62nd Annual National Student Research Forum; Galveston, TX; Presented by the first author, Joanna Chyu, MS-I.

March 2021 Poster: Vitamin D levels in Pediatric Patients Undergoing Chemotherapy; Texas Tech University Health Science Center Student Research Week; Lubbock TX; Presented by the first author, Madison Schoeberl, MS-II.

March 2021 Poster: Evaluating urine pH and specific gravity: A single center experience comparing different urine testing methods in children receiving high-dose methotrexate; Texas Tech University Health Science Center Student Research Week; Lubbock TX; Presented by the first author, Zain Ali, MS-IV.

January 2021 Pediatric Grand Round: Supportive Care in Pediatric Oncology Texas Tech University Health Sciences Center, Lubbock, TX

January 2021 Pediatric Hematology-Oncology Nurse Education day: Biotherapy in Leukemia, The New COG protocols; University Medical Center, Lubbock, TX

Abstracts:

AliZ, ChyuJ, AlmekdashMH, Al-RahawanMM; ALL-058: Evaluating Urine pH and Specific Gravity: A Single-Center Experience Comparing Different Urine Testing Methods in Children Receiving High-Dose Methotrexate; Clinical Lymphoma Myeloma and Leukemia; Volume 21, Supplement 1, 2021; Pages S265-S266,

Posters-see above

Grant Awards

- 2021 Alex Lemonade Stand Foundation \$28,044.00

Grant Applications-none

Blanton, Michael

Publications-none

Presentations-none

Posters-none

Grant Awards-none

Grant Applications-none

Brismee, JM

Publications (peer-reviewed)

1. Shen CL, Watkins BA, Kahathuduwa C, Chyu MC, Zabet M, Elmassry MM, Luk HY, Brismee JM, Knox A, Lee J, Zumwalt M, Wang R, Wager TD, Neugebauer V. Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women with Knee Osteoarthritis: An Exploratory Pilot Study. *Frontiers in Medicine*, section Rheumatology. 2022;8:775344.
<https://www.frontiersin.org/articles/10.3389/fmed.2021.775344/full>

2. Hage R, Detrembleur C, Dierick F, Brismée JM, Roussel N, Pitance L. Sensorimotor Performance in Acute-subacute Non-Specific Neck Pain: A Non-Randomized Prospective Clinical Trial with Intervention. *BMC Musculoskeletal Disorders*. 2021;22(1):1017. <https://bmcmusculoskeletdisord.biomedcentral.com/track/pdf/10.1186/s12891-021-04876-4.pdf>

3. Elkins MR, Pinto RZ, Verhagen A, Grygorowicz M, Söderlund A, Guemann M, Gómez-Conesa A, Blanton S, Brismée JM, Ardern C, Agarwal S, Jette A, Karstens S, Harms M, Verheyden G, Sheikh U. Statistical Inference through Estimation: Recommendations from the International Society of Physiotherapy Journal Editors. *Journal of Physiotherapy*. 2021;21:S1836-9553(21)00128-

4. https://www.clinicalkey.com/service/content/pdf/watermarked/1-s2.0-S1836955321001284.pdf?locale=en_US&searchIndex=

4. St-Pierre MO, Lavoie FA, Brismée JM, Hoffmann M, Begon M, Bertrand-Grenier A, Sobczak S. Intracapsular Pressures in the Flexion-Abduction-External Rotation and Flexion-Adduction-Internal Rotation Tests and Their Comparison With Classic Hip Range Of Motion: A Cadaveric Assessment. *Clinical Biomechanics*(Bristol, Avon). 2021;91:105526.

5. Lasley RJ, Brismée JM. Delayed Diagnosis and Surgical Management for Gluteus Medius/Minimus Calcific Tendinopathy with Heterotopic Ossification: A Case Report. *International Journal of Clinical Studies & Medical Case Reports*. 2021;8(5):1-5. <https://ijclinmedcasereports.com/pdf/IJCMCR-CR-00199.pdf>

6. Dierick F, Brismée JM, White O, Bouché AF, Perichon C, Filoni N, Barvaux V, Buisseret F. Fine Adaptive Control of Precision Grip Without Maximum Pinch Strength Changes After Upper Limb Neurodynamic Mobilization. *Scientific Reports*. 2021;11(1):14009.

7. Atkins LT, James CR, Yang HS, Sizer PS, Brismée JM, Sawyer SF, Powers CM. Immediate Improvements in Patellofemoral Pain Are Associated with Sagittal Plane Movement

2. Training to Improve Use of Gluteus Maximus Muscle during Single Limb Landing. *Physical Therapy*. 2021;101(4):pzab165.

8. Brismée JM, Learman K, Riley SP, Swanson BT. On "Defining Our Diagnostic Labels Will Help Define Our Movement Expertise and Guide Our Next 100 Years." *Sahrmann S. Physical Therapy*. 2021;101(4):pzaa196.

9. Dice JL, Dendy D, Sizer PS, Cook CE, Feuling S, Brismée JM. Manual Therapy in Preadolescent Children: A Delphi Investigation of Physical Therapists in the United States. *Physical Therapy*. 2021;101(4):pzab027.

10. Pepper TM, Brismée JM, Sizer PS Jr, Kapila J, Seeber GH, Huggins CA, Hooper TL. The Immediate Effects of Foam Rolling and Stretching on Iliotibial Band Stiffness: A Randomized Controlled Trial. *International Journal of Sports Physical Therapy*. 2021;16(3):651-661.

11. Gehring RD, Potter-Brunet J, Sizer PS, Gilbert KK, Brismée JM. A Neural Mobilization Treatment Strategy for Patients with Neurogenic Claudication Related to Degenerative Lumbar Spinal Stenosis: A Prospective Case Series. *International Journal of Sports and Exercise Medicine*. 2021; 7:191.

<https://clinmedjournals.org/articles/ijsem/international-journal-of-sports-and-exercise-medicine-ijsem-7-191.pdf>

12. Lasley RJ, Brismée JM. Delayed Diagnosis and Surgical Management for Gluteus Medius/Minimus Calcific Tendinopathy with Heterotopic Ossification: A Case Report. *International Journal of Clinical Studies & Medical Case Reports*. 2021; 8(5):1-5.

Publications (non-peer reviewed)

1. Fick G, Brismée JM. Short-term benefits and high satisfaction of moving cupping therapy to the posterior lower limb for increasing hip and knee range of motion. Murray D, Clarkson C. Effects of moving cupping therapy on hip and knee range of movement and knee flexion power: a preliminary investigation. *Journal of Manual and Manipulative Therapy*. 2019; 27(5):287-294. In IAOM-US Commons, 04/06/2021 <https://iaom-us.com/short-term-benefits-and-high-satisfaction-of-moving-cupping-therapy-to-the-posterior-lower-limb-for-increasing-hip-and-knee-range-of-motion/>

2. Fick G, Brismée JM. Early weight bearing and functional mobilization following Achilles tendon repair produce high 6-month outcome scores on general health and wellness. Aufwerber S, Heijne A, Edman G, Silbernagel KG, Ackermann PW. Does early functional mobilization affect long-term outcomes after an Achilles tendon rupture? *Orthopedic Journal of Sports Medicine*. 2020; 8(3):1-9. In IAOM-US Commons, 03/02/2021 <https://iaom-us.com/early-weight-bearing-and-functional-mobilization-following-achilles-tendon-repair-produce-high-6-month-outcome-scores-on-general-health-and-wellness/>

3. Ennis K, Brismée JM. Differential diagnosis of posterior hip and sciatica-like pain. Park JW, Lee Y-K, Lee YJ, Shin S, Kang Y, Koo K-H. Deep Gluteal syndrome as a cause of posterior hip pain and sciatica-like pain. *Bone Joint J*. 2020;102-B(5):556-567. In IAOM-US Commons, 02/12/2021 <https://iaom-us.com/differential-diagnosis-of-posterior-hip-and-sciatica-like-pain/>

4. Fick G, Brismée JM. Low-load blood flow restriction (BFR) training induces similar Achilles tendon adaptations compared with high-load resistance training. Centner C, Lauber B, Seynnes OR, Jerger S, Sohnius T, et al. Low-load blood flow re-restriction training induces similar morphological and mechanical Achilles tendon adaptations compared with high-load resistance training. *Journal of Applied Physiology*. 2019; 127(6):1660-1667. In IAOM-US Commons, 01/21/2021 <https://iaom-us.com/low-load-blood-flow-restriction-bfr-training-induces-similar-achilles-tendon-adaptations-compared-with-high-load-resistance-training>

Presentations (oral)

1. Annual AAOMPT Conference 2021. Matthijs A*, Matthijs OCG, Windisch GCh, Streitmayer BG, Kerner AM, Sizer PS, Brismée JM. "Cervical Lateral Flexion Pre-positioning Isolates C1-2 Segmental Cervical Axial Rotation: A Cadaveric Study" Cleveland, Ohio, 10/08/2021

2. Annual AAOMPT Conference 2021 James CM, Brismée JM, St-Pierre MO, Descarreaux M, Hooper TL, Nougrou F, Bélanger EM, Sobczak S. "Posterior-Anterior Joint Mobilizations Change Cervical Intradiscal Pressure: Implications For Disc Nutrition" Cleveland, Ohio, 10/08/2021
3. Annual AAOMPT Conference 2021 Hoops JF, Hooper TL, Sobczak S, Kapila J, Dewan BM, Matthijs OC, Brismée JM. "Posterior Glide Mobilizations Improve Shoulder Range of Motion But Do Not Alter Humeral Head Displacement in Subjects With Internal Rotation Deficit" Cleveland, Ohio, 10/08/2021
4. The World Confederation for Physical Therapy (WCPT) Congress 2021
5. Seeber GH, Wilhelm MP, Sizer PS, Guthikonda A, Matthijs A, Matthijs OC, Lazovic D, Brismée JM, Gilbert KK. "The Tensile Behaviors Of The Iliotibial Band –A Cadaveric Investigation". Ref# ABSTRACTS-WCPT2021-00786 Dubai, United Arab Emirates; 04/09/2021.
6. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2021) –3-minute Pitch Competition James CM, Brismée JM, Descarreaux M, Hooper TL, Nougrou F, St-Pierre MO, Bélanger EM, Sobczak S. "Intradiscal Pressure Responses to Cervical Spine Posterior-Anterior Mobilization: A Cadaveric Investigation" Lubbock, Texas, 03/04/2021
7. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2021) –3-minute Pitch Competition Campbell DF, Brismée JM, Allen B, Hooper TL, Domenech TA, Manella KJ. "Are Doctor of Physical Therapy Students Prepared for Clinical Experiences During the Telehealth Era? A Survey" Lubbock, Texas, 03/04/2021

Posters

1. 2021 Texas Physical Therapy Association Annual Conference Campbell DF, Brismée JM, Allen B, Hooper TL, Domenech TA, Manella KJ. "Does Ethnicity Impact DPT Students' Clinical Readiness and Performance? An exploratory study" Virtual Conference, 10/30/2021
2. American Congress of Rehabilitation Medicine (2021) (virtual) James CM*, Brismée JM, St-Pierre MO, Descarreaux M, Hooper TL, Nougrou F, Bélanger EM, Sobczak S. "Intradiscal Pressure Responses to Cervical Spine Posterior-Anterior Mobilization: A Cadaveric Investigation" Dallas, Texas, 8/27/2021
3. 2021 Integrative Medicine & Health Symposium (virtual) Shen CL, Kahathuduwa C, Chyu MC, Brismée JM, Knox A, Wang R, Luk HY, Appell C, O'Boyle M, Zumwalt M, Watkins BA, Neugebauer V. "Neurobiological Mechanisms of Pain Modulation from Tai-Chi: a Single-Arm Pre/Post Pilot Study" Lubbock, Texas, 04/12/2021.
4. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2021) James CM, Brismée JM, Descarreaux M, Hooper TL, Nougrou F, St-Pierre MO, Bélanger EM, Sobczak S. "Intradiscal Pressure Responses to Cervical Spine Posterior-Anterior Mobilization: A Cadaveric Investigation" Lubbock, Texas, 03/04/2021
5. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2021) Campbell DF, Brismée JM, Allen B, Hooper TL, Domenech TA, Manella KJ. "Are Doctor of Physical Therapy Students Prepared for Clinical Experiences During the Telehealth Era? A Survey" Lubbock, Texas, 03/04/2021
6. 69 Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen Seeber GH, Wilhelm MP, Guthikonda A, Lazovic D, Brismée JM, Gilbert KK, Sizer PS Jr. "Das Biomechanische Verhalten des Iliotibialbandes unter Zug -eine Präparatstudie." Baden-Baden, Germany, 04/2021
7. 69 Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen Seeber GH, Lierly M, Bassett C, Douthit C, Wilhelm MP, Lazovic D, Brismée JM, Gilbert KK, Sizer PS Jr. "Der limitierende Einfluss des lateralen femoralen intermuskulären Septums auf die passive Hüftdduktion -eine Präparatstudie." Baden-Baden, Germany, 04/2021.

8.The World Confederation for Physical Therapy (WCPT) Congress 2021Dierick F, Brismée JM, White O, Bouché AF, Perichon C, Filoni N, Barvaux V, Buisseret F. “Fine Adaptive Control of Precision Grip After Median Nerve Mobilization”Dubai, United Arab Emirates; 04/09/2021.

9.The World Confederation for Physical Therapy (WCPT) Congress 2021Wilhelm MP, Hooper TL, Seeber GH, Browne KL, Sargent E, Gilbert KK, James CR, Brismée JM, Matthijs OC, Matthijs A, Sizer PS. “Relationships Between Foot Mobility Measures And Subtalar Joint Stiffness Using Vibration Energy With Color Doppler Imaging -A Proof-Of-Concept Study”.Ref# ABSTRACTS-WCPT2021-00790 Dubai, United Arab Emirates; 04/09/2021.

10.The World Confederation for Physical Therapy (WCPT) Congress 2021Pepper T, Brismée JM, Sizer PS, Kapila J, Seeber GH, Huggins C, Hooper TL. “The Immediate Effects of Foam Rolling And Stretching On Iliotibial Band Stiffness: A Randomized Control Trial”.Ref# ABSTRACTS-WCPT2021-00783Dubai, United Arab Emirates; 04/09/2021.

Grant Awards-none

Grant Applications-none

Coman, Ioana

Publications

Peer-reviewed journal articles -published:

1. Coman, I. A.(2021). Watching the watchdogs: Online news commenters’ critiques of journalistic performance during terrorist attacks. Iowa Journal of Communication. 53(2): 49-69.
 - Award-winning state journal, peer-reviewed, international in scope, connected to Iowa Communication Association and Conference
2. Carpio C, Coman I.A., Sarasty O, Garcia M. (2021). COVID-19 vaccine demand and financial incentives. Applied Health Economics and Health Policy. 19(16), 871-883.
 - Impact Factor: 2.561 | 5-year Impact Factor 2.978 | SciMago H-index 40
3. Guidry, J.P.D.,Perrin, P.B., Bol, N., Song, B., Hong, C., Lovari, A., Coman, I.A., O’Donnell, N.H., Alkazemi, M., Niu, J., Pabian, S.J.R., Lin, A., Miller, C.A., & Carlyle, K.E. (2021). Social distancing during COVID-19: threat and efficacy among university students in seven nations. Global Health Promotion. <https://doi.org/10.1177/17579759211051368>
 - Impact Factor: 1.976 | 5-year Impact Factor 2.070 | SciMago H-index: 31
4. Cmeciu C, Coman I.(2021). Governmental and public thematic patterns on vaccination during a measles outbreak: the Romanian perspective. Global Health Promotion. 28(3), 23-31.
 - Impact Factor: 1.976 | 5-year Impact Factor 2.070 | SciMago H-index: 31
5. Perry G, Knapp CR, Grant TD, Pasachnik SA, Coman I.A. (2021). From pets to threats: Invasive iguanas and other species cause significant harm to native iguanas. Reptiles & Amphibians.15; 28(2): 213-217.
 - International open-access journal that publishes peer-reviewed research in all aspects of herpetology with an emphasis on conservation and natural history

Peer reviewed accepted/forthcoming:

1. Coman, I.A., Cooper-Norris C., Longing, S. & Perry G.(2022 –forthcoming). Turkeys, boars, racoons, oh my! Urban wildlife conservation in the age of Covid-19. Diversity. 14, [issue TBD]
 - a. •Impact Factor 2.465 | Scopus Citescore: 2.2 | SciMago H-index 38

Books–published:

1. Lilleker, D., Coman I., Gregor, M., Novelli, E. (Eds.), Political Communication and COVID-19: Governance and Rhetoric in Times of Crisis. Routledge.

•Chapters in this book:

1. Coman, I., Elsheikh, D., Gregor, M., Lilleker, D., Novelli, E. Introduction: Political Communication, Governance and Rhetoric in Times of Crisis.
2. Lilleker, D., Coman, I., Gregor, M., Novelli, E. Conclusion: Political Communication and COVID-19: Governance and Rhetoric in Global Comparative Perspective.
3. Lilleker, D., Coman, I., Gregor, M., Novelli, E. Foreword. In D. Lilleker, I. Coman, M. Gregor, E. Novelli (Eds.) Political Communication and COVID-19. Routledge

Book chapters in other books:

- Coman, I., Karadjov, C. 2021. Chapter 10. Media of Central and Eastern Europe and Russia. In Dimitrova, D. (Ed.), Global Journalism: Understanding World Media Systems. Rowman & Littlefield.

Peer Reviewed Manuscripts Revise and Resubmit

1. Coman, I.A.; Bazaa, U.; Guidry, J.; Miller, C. (R&R) #EndtheSTigma: An exploratory analysis of the 2019 HPV Awareness Day conversation on Twitter & Instagram. Health Communication.
 - Impact Factor: 3.198 | 5 years IF 3.434 | SciMago H-index 68
2. Coman I.A., Sisson D., Riggs R., Vasquez R., Brook-Herst E. (R&R). It's complicated. It's real. We can do better! Teaching bias, implicit bias, unconscious bias to public relations students. Journal of Public Relations Education.
 - The pedagogical research PR journal associated with AEJMC
3. Xu S., Coman I.A., Yamamoto M., Najera, C. Exposure Effects or Confirmation Bias? (R&R). Examining Reciprocal Dynamics of Misinformation, Misperceptions, and Attitudes toward COVID-19 Vaccines. Health Communication.
 - Impact Factor: 3.198 | 5 years IF 3.434 | SciMago H-index 68

Manuscripts Under Review for peer reviewed journals

1. Coman, I., Xu, S., Yamamoto, M. COVID-19 vaccine hesitancy among disadvantaged groups: (In)surmountable barriers and (in)effective cues to action? American Journal of Health Promotion.
2. Coman, I.; Yuan, S.; Tsai, J.Y. Toward an Audience-Centric Framework of Corporate Social Advocacy Strategy: A survey of Generation Z. Sustainability. Special Issue: Corporate Social Responsibility, Corporate Social Advocacy, and Societal Change.
3. Tsai, J.Y., Coman, I., Yuan, S. Audience perceptions of Corporate Social Advocacy and Activism. International Journal of Strategic Communication
4. Gearhart, S., Coman, I., Moe, A. Is Facebook News Biased Against my Opinion? Testing the Influence of Comments on the Hostile Media Effect & a Potential Solution. Electronic NewsJournal.
5. Coman I.A. & Luther, C. (under review) Expressions of Transnational Solidarity in Times of Terror? Examining the News Coverage and Public Discourse of 2013 Boston Marathon Bombings. International Communication Research Journal.

Work in preparation for journals:

1. Coman, I. Xu, S., Yamamoto, M. A longitudinal qualitative analysis of American's reasons to vaccinate/not to vaccinate. Journal of Health Communication.

2. Coman, I., Swed, O., Dang, T., Sreepada N., Baaza, U. What's in an account? Identifying patterns in real news versus fake news Twitter accounts. *Big data and society*.
3. Coman, I. Calling the shots: Exploring the #COVIDVaccine Twitter conversation in English and Spanish. *International Crisis and Risk Communication Journal*
4. Coman, I. Fighting COVID-19 Vaccine mis/disinformation with facts: European and American factchecking organizations' impact on social media. *Digital Journalism*.
5. Coman, I., Gearhart, S., Moe, A. Hostile Media Bias in Vaccine News: The Influence of Facebook Comments & Topic on Perceptions. *New Media and Society*.

Note that I also have multiple led/co-led works in progress that are on-going. I decided to not include them here as they are not as close to be sent for publication as the ones in preparation.

Presentations

Upcoming Peer-Reviewed:

1. Coman, I., Swed, O., Dang, T., Sreepada, N., Baza, U. (March, 2022). What's in an account? Identifying patterns in real news versus fake news Twitter accounts. *AEJMC Midwinter*.
2. Coman, I., Xu, S., Yamamoto, M. (May, 2022). COVID-19 vaccine hesitancy among disadvantaged groups: Explicating barriers and cues to action in the Health Belief Model. *ICA*
3. Tsai, J., Coman, I., Yuan, S. (May 2022). Testing the Impact of Attributions of Solution Responsibility, Issue Identification and Advocacy Fit on Audience Responses to CSA efforts. *ICA*
4. Xu, S., Coman, I., Yamamoto, M. (May 2022). Exposure Effects or Confirmation Bias?: Examining Reciprocal Dynamics of Misinformation, Misperceptions, and Attitudes toward COVID-19 Vaccines. *ICA*

Past Peer-Reviewed:

1. Coman, I. (March, 2021). Calling the shots: Exploring the #COVIDVaccine Twitter conversation in English and Spanish. *International Crisis and Risk Communication Conference (ICRCC) (virtual)*.
2. Coman, I. (March, 2021). Fighting the Infodemic War on the COVID-19 Vaccine: An international comparative analysis of factchecking organizations' impact on social media and their dialogic engagement with their audiences. *AEJMC Midwinter (virtual)*.
3. Gearhart, S., Coman, I., Moe, A. (March, 2021). Is Facebook News Biased Against my Opinion? Testing the Influence of Comments on the Hostile Media Effect & a Potential Solution. *AEJMC Midwinter (virtual)*.
4. Guidry, J., Bol, N., Song, B., Hong, C., Lovari, A., Coman, I., O'Donnell, N., Alkazemi, M., Pabian, S., Prrin, P. & Carlyle, K (May 2021). Social Distancing: Threat and Efficacy among University Students in Seven Nations. *ICA. (virtual)*.

Posters-see above

Grant Awards

AWARDED

- Page/Johnson Legacy Scholar grant for Corporate Social Advocacy (2021). \$5,000. Building an audience-centric framework of situational corporate social advocacy strategy: A mixed-method approach. Co-PIs: Tsai, J., Coman, I., Yuan, S.
- Waterhouse Family Institute for the Study of Communication and Society (WFI) -Villanova University (2020-2021). •Sum: \$9,295. •Project: Is Facebook News Biased Against my Opinion?: Testing the Influence of comments on the Hostile Media Effect & a Solution to the Problem. •Co-PIs: Gearhart, S. & Coman, I., Co-I: Moe Alex

Grant Applications

UNDER REVIEW

- NSF (Great Challenges) -A Research Model for Predicting the next Pandemic. Bradley, R., Conway, W., Coman, I.(8.5% on Cayuse), Harvinder G., Robberts, E., Khare, R., Ranadip, P. (...). \$950,000.
- Page/Johnson Legacy Scholargrant for Corporate Social Advocacy (2022). \$6,800. From greenwashing to saving the planet: An exploration of how mainstream, Hispanicand Black media and their public spheres portray and judge organizations' environmental sustainability (in)actions. PI: Coman, I.

REVISE & RESUBMIT (in process):

- National Institute of Health (NIH), NAID –Submitted 10/2020.To resubmit this year. •Project: Promoting Flu Vaccination via Social Media. Building Machine Learning Models for Social Listening and Virality•Sum: \$398,368•PI:Coman I.(40%)•Co-PIs: Xu, S. & Sheng, V.

APPLIED -NOT AWARDED

- National Science Foundation (NSF)–Submitted 1/2021. •Project: SRS RN: One-Health for Sustainability in Secondary Urban and Associated Rural Areas (SURAs)•Sum: \$14,986,616.00. •PI: Reible, D. •Co-Pis: Perry, G., Dryer, K, Zak, J, Smith, P., San Francisco, M., Epstein, D., Farmer, M., Hardberger, A., Hayhoe, K., Crago, J., Uddameri, V., Malmali, M., Cummins, R., Coman, I.(8.33%)Kim, J., Moskal, B.

Dennis, Jeff

Publications

Ahmed, H. & Dennis, J. A. (2021). Assessment and diagnosis of mental illness in EDs among individuals without a home: Findings form the National Hospital Ambulatory Care Survey 2009-2017. *Western Journal of Emergency Medicine*. DOI: 10.5811/westjem.2021.7.51882

Dowdle, T., Dennis, J. A., Nugent, K., Byrd, T. L. (2021). Intention to receive COVID-19 vaccine by U.S. health sciences university employees. *Journal of Primary Care and Community Health*, 12, 1-7. <https://doi.org/10.1177/21501327211036611>

Dennis, J. A., Zhang, Y., Zhang, F., Kopel, J., Abohelwa, M., Nugent, K. (2021). Comparison of 30-Day Mortality and Readmission Frequency in Women versus Men with Acute Myocardial Infarction. *Baylor University Medical Center Proceedings*. <https://doi.org/10.1080/08998280.2021.1945364>

Zhang, Y., Lauche, R., Cramer, H., Munk, N., & Dennis, J. A. (2021). Increasing trend of yoga practice among US adults: Findings from NHIS 2002 to 2017. *Journal of Alternative and Complementary Medicine*. <https://doi.org/10.1089/acm.2020.0506>

Dennis, J. A., Zhang, Y., Zhang, F., De La Cruz, N., Hannabas, G., Mi, N. (2021). Sex differences in stroke incidence, 30-day mortality, and readmission in a southwestern U.S. medical center. *Southern Medical Journal*, 114:1-6. DOI: 10.14423/SMJ.0000000000001221

Dennis, J. A., Gittner, L. S., George, A. K., & Queen, C. M. (2021). Opioid use disorder terminologies and the role of public health in addressing stigma. *Alcoholism Treatment Quarterly*, 39:110-118. DOI:10.1080/07347324.2020.1787118

Rivas, A.M., Pena, C., Kopel, J., Dennis, J. A., Nugent, K. (2021). Hypertension and hyperthyroidism: association and pathogenesis. *The American Journal of the Medical Sciences*, 361: 3-7. DOI: 10.1016/j.amjms.2020.08.012

Khan, S., Ike, C, Dennis, J. A., Nugent, K. N. (2021). The prevalence and characteristics of adults with latent tuberculous infection in the United States and the implications for healthcare in Texas. *Southwest Respiratory and Critical Care Chronicles*, 9:1-10.

Thavaraputta, S., Dennis, J. A., Ball, S., Laoveeravat, P., & Nugent, K. (2021). The association between hematologic inflammatory markers and obesity in healthy participants in the National Health and Nutrition Examination Survey 2011-2016. *Baylor University Medical Center Proceedings*, 34: 17-21.
DOI:10.1080/08998280.2020.1799482

Gittner, L. S., & Dennis, J. A. (2021). Diversion for justice involved individuals with mental health issues: A public health perspective. In *American Society of Criminology Division on Corrections and Sentencing's Handbook on Pretrial Justice*. Eds. Jennifer Copp, Stephen DeMuth, Christine Scott-Hayward.

Presentations

Guest lecture/panelist: Vaccine hesitancy and COVID-19. TTUHSC Office of Global Health. Sept. 15, 2021.

Panelist – This is Your Shot: Vaccine Facts and Science. Townhall for the TTU System and community. August 18, 2021.

Dennis, Jeff A. “Racial and Ethnic Disparities in Health Outcomes; Study Design Fundamentals.” P3-C week lecture, TTUHSC Lubbock, March 8, 2021.

Panelist – Student Research Week COVID-19 Panel – Graduate School of Biomedical Sciences, March 12, 2021.

Dennis, Jeff A. “Social and Economic Determinants of COVID-19” – Guest lecture for GSPH 5388, Public Health Aspects of the Coronavirus Pandemic. Feb. 24, 2021.

Posters: none

Grant Awards: none.

Grant Applications: none.

Dufour, Jannette

*Collaboration with CEIH member

Publications

1.*Sivaprakasam S, Sikder MOF, Ramalingam L, Kaur G, Dufour JM, Moustaid-Moussa N, Wachtel MS, Ganapathy V. 2021 SLC6A14 deficiency is linked to obesity, fatty liver, and metabolic syndrome but only under conditions of a high-fat diet. *BBA -Molecular Basis of Disease* 1867(5):166087. doi: 10.1016/j.bbadis.2021.166087

2.*Helmer BA, Martinez-Zaguilan R, Kaur G, Smith LA, Dufour JM, Chilton BS. 2021 Helicase-like transcription factor-deletion from the tumor microenvironment in a cell line-derived xenograft model of colorectal cancer

reprogrammed the human transcriptome-S-nitroso-proteome to promote inflammation and redirect metastasis. PLOS ONE doi.org/10.1371/journal.pone.0251132.

3.*Washburn RL, Mueller K, Kaur G, Moreno T, Ramalingam L, Moustaid-Moussa N, DufourJM. 2021 C-peptide as a therapy for type 1 diabetes. Biomedicines 9(3):270. doi: 10.3390/biomedicines9030270.

4.*Washburn RL, Hibler T, Thompson LA, Kaur G, DufourJM. 2021 Therapeutic application of Sertoli cells for treatment of various diseases. Seminars in Cell and Developmental Biology doi: 10.1016/j.semcdb.2021.04.007.

5.*ShenCL,Ramamoorthy S, KaurG,DufourJM, Wang R, Mo H, Watkins BA. 2021 Dietary annatto-extracted tocotrienol reduces inflammation and oxidative stress, and improves macronutrient metabolism in obese mice: a metabolic profiling study. Nutrients 13(4):1267. doi: 10.3390/nu13041267.

6.*Menikdiwela KR, Guimaraes JPT, Ramalingam L, Kalupahana NS, Dufour JM, Washburn RL, Moustaid-Moussa N. 2021 Mechanisms Linking Endoplasmic Reticulum (ER) Stress and microRNAs to Adipose Tissue Dysfunction in Obesity.Critical Reviews in Biochemistry & Molecular Biology 56(5):455-481. doi: 10.1080/10409238.2021.1925219.

7.*Kaur G, Wright K, Verma S, Haynes A, Dufour JM. 2021The good, the bad and the ugly of testicular immune regulation: a delicate balance between immune function and immune privilege. In: C. Yan Cheng (Ed.) Molecular Mechanisms in Spermatogenesis, Springer Nature, Basingstoke, United Kingdom.Adv Exp Med Biol. 1288:21-47. doi: 10.1007/978-3-030-77779-1_2.

8.*ChungE, ElmassryMM, Cao JJ, KaurG,DufourJM, HamoodAN, ShenCL. 2021 Beneficial effect of dietary geranylgeraniol on glucose homeostasis and bone microstructure in obese mice is associated with suppression of proinflammation and modification of gut microbiome. Nutrition Research 93:27-37. doi: 10.1016/j.nutres.2021.07.001.

Abstracts

1.*Washburn RL, Kaur G,Dufour JM. Xenogeneic Sertoli cells express complement inhibitory proteins necessary for their survival of hyperacute rejection. Annual Meeting for the American Association of Immunologists. Virtual Immunology2021 (May 10-15, 2021).

2.*Taylor H, Kaur G,Dufour JM. Sertoli cell induced Tregs: a critical component of Sertoli cell immune-regulation in transplantation. 104thAnnual Meeting for the American Association of Immunologists. Virtual Immunology2021 (May 10-15, 2021). (Oral Presentation) 2021 AAI Trainee Abstract Award.

3.*Washburn RL, Kaur G,Dufour JM. Expression of CD46 and CD55 are critical to testicular Sertoli cell survival of hyperacute rejection. Texas Forum for Reproductive Sciences 26thAnnual Virtual Meeting. (June 17-18, 2021).

4.*Taylor H, Kaur G, Dufour JM. Sertoli cell induced Tregs: Guardians against inflammatory immuneresponse. Texas Forum for Reproductive Sciences 26thAnnual Virtual Meeting. (June 17-18, 2021). (Platform Presentation) (Second Place 2021 Texas Forum for Reproductive Sciences Platform Competition Award).

5.*Washburn RL, Kaur G,Reilly B,Dufour JM. Complement inhibition by immunoregulatory Sertoli cells: Paving the road to allograft and xenograft survival. 28thInternational Complement Virtual Workshop. (December, 6-10, 2021)

Presentations

1. Induction of Tregs and Complement Inhibition: Critical Components of Sertoli Cell Immune Regulation. 4th Dr. Yves Clermont Lecture in Reproduction at the 12th Annual Research Day of the McGill Centre for Research in Reproduction and Development. (Montreal, Quebec, Canada) (May 11, 2021)

Posters-none

Grant Awards

*Jasper & Jack Wilson Foundation, December 1, 2015 -May 30, 2021, Dufour JM (Principal Investigator), Kaur G (Co-Investigator), Genetically Engineered Sertoli Cells as Vehicle Cell Based Gene therapy \$70,000 (2019-2021) \$490,000 (Total Amount). (Funded)

*CH Foundation January 1, 2021 -December 31, 2021, Dufour JM (Co-Investigator), Kaur G (Principal Investigator), Investigation of porcine Sertoli cell immune regulation to improve islet xenograft survival as a treatment for diabetes. \$60,000 (Direct Cost), \$60,000 (Total Amount) (Funded)

*CH Foundation January 1, 2022 -December 31, 2022, Dufour JM (Principal Investigator), Kaur G (Co-Investigator), The role of TGF β and retinoic acid in Sertoli cell induction of Tregs. \$72,400 (Direct Cost), \$72,400 (Total Amount) (Funded)

*CBB Women's Health and Sex and Gender Differences Seed Grant December 1, 2020-November 30, 2021, Dufour JM (Principal Investigator), Kaur G (Co-Investigator), Sertoli cell induction of Tregs in female recipients. \$15,000 (Direct Cost), \$15,000 (Total Amount) (Funded)

Grant Applications-none

Figueroa, Arturo

Publications

1. Jaime SJ, Nagel J, Maharaj A, Fischer SM, Schwab E, Martinson C, Radtke K, Mikat RP, Figueroa A. L-Citrulline supplementation attenuates aortic pulse pressure and wave reflection responses to cold stress in older adults. *Exp Gerontol* 2022 Jan 3:111685. doi: 10.1016/j.exger.2021.111685.
2. Maharaj A, Fischer SM, Dillon KN, Kang Y, Martinez MA, Figueroa A. Acute citrulline bunts aortic systolic pressure during exercise and sympathoactivation in hypertensive postmenopausal women. *Med Sci Sports Exerc.* 2021 Dec 28. doi: 10.1249/MSS.0000000000002848.
3. Shiraseb F, Asbaghi O, Bagheri R, Wong A, Figueroa A, Mirzaei K. The effect of L-arginine supplementation on blood pressure in adults: A systematic review and dose-response meta-analysis of randomized clinical trials. *Adv Nutr* Dec 30, 2021. doi:10.1093/advances/nmab155.
4. Mason J, Tenenbaum GT, Jaime SJ, Roque N, Maharaj A, Figueroa A. Arterial Stiffness and Cardiorespiratory Fitness are Associated with Cognitive Function in Older Adults. *Behavioral Medicine.* 48(1):54-65, 2022.
5. Feresin R, Johnson S, Elam M, Pourafshar S, Navaei N, Akhavan N, Tenenbaum G, Figueroa A, Arjmandi BH. Effects of Strawberries on Bone Biomarkers in Pre- and Stage 1-hypertensive Postmenopausal Women: A Secondary Analysis. *Food Funct* 12(24):12526-12534, 2021.

6. Font-Farré M, Farche ACS, de Madeiros Takahashi AC, Guerra-Balic M, Figueroa A, Oviedo GR. Cardiac autonomic modulation response before, during and after submaximal exercise in older adults with intellectual disability. *Frontiers in Physiology* 12:702418, 2021.
7. Flores-Ramírez AG, Tovar-Villegas VI, Maharaj A, Garay-Sevilla ME, Figueroa A. Effects of L-Citrulline Supplementation and Aerobic Training on Vascular Function in Individuals with Obesity across the Lifespan. *Nutrients*. 2021; 13(9):2991.
8. Wong A, Figueroa A. Effects of acute stretching exercise and training on heart rate variability: A review. *J Strength Cond Res*. 35(5):1459-1466, 2021.
9. Fischer SM, Wong A, Maharaj A, Jaime SJ, Figueroa A. Impaired pulse pressure amplification, augmentation index, and arterial stiffness are associated with reduced limb lean mass in overweight and obese postmenopausal women. *Exp Gerontol* 145:111194, 2021; doi: 10.1016/j.exger.2020.111194.

ABSTRACTS:

1. Figueroa A, Maharaj A, Fischer SM. Impact of L-Citrulline supplementation combined with low-intensity resistance training on body composition and strength in postmenopausal women. *International Conference on Frailty, Sarcopenia and Geroscience Research 2021*.
2. Wong A, Nordvall M, Moghadam BH, Reza Bagheri, Ashtary-Larky D, Gaeini AA, Figueroa A. Impact Of Saffron Supplementation And Resistance Training On Depression-related Markers In Untrained Young Males. *Annual ACSM 2021*.
3. Maharaj A, Fischer SM, Figueroa A. Acute L-citrulline Attenuates Blood Pressure Responses To Exercise And Cold Stress In Hypertensive Postmenopausal Women. *Annual ACSM 2021*.
4. Fischer S, Maharaj A, Figueroa A. Endothelial Function In The Legs Is Reduced In Older Compared To Middle-aged Postmenopausal Women. *Annual ACSM 2021*.
5. Allnutt A, Bagheri R, Moghadam BH, Wong A, Ashtary-Larky D, Rashidlamir A, Figueroa A. Post-exercise Icelandic Yogurt Consumption Augments Resistance Training Gains And Muscle Regulatory Factors In Healthy, Untrained Older Males. *Annual ACSM 2021*.

Presentations: none.

Posters: none

Grant Awards: none

Grant Applications: none

Jung, Kwanghee

Publications: none

Presentations: none

Posters: none

Grant Awards

Speech intervention via telepractice for children with repaired cleft palate: Randomized Controlled Trial and Assessment of Speech Production and Perception Skills, Lee(PI),NIH1UG3DE030869-01.09/1/2021–8/31/2027,\$3,199,238

Grant Applications-none

Kahathuduwa, Chanaka

Publications

- 1.Blume J., Kahathuduwa C. N., Mastergeorge A.Intrinsic Structural Connectivity of the Default Mode Network and Behavioral Correlates of Executive Function and Social Skills in Youth with Autism Spectrum Disorders. *Journal of Autism and Developmental Disorders*. (Accepted Jan 20 –2022; In press)
- 2.ShenC. L., WatkinsB., Kahathuduwa C., ChyuM-C., ZabetM., ElmassryM. M., LukH-Y., BrismeeJ. M., KnoxA., LeeJ., ZumwaltM., Rui Wang, Tor D Wager, Volker Neugebauer. Tai Chi improves brain functional connectivity and plasma lysophosphatidylcholines in postmenopausal women with knee osteoarthritis: an exploratory pilot study. *Frontiers in Medicine*. (Accepted Nov 15, 2021 –Inpress)
- 3.Albracht-Schulte, K., Wilson, S., Johnson, P., Pahlavani, M., Ramalingam, L., Goonapienuwala, B., Kalupahana, N.S., Festuccia, W.T., Scoggin, S., Kahathuduwa, C.N., Moustaid-Moussa, N. Sex-dependent effects of eicosapentaenoic acid on hepatic steatosis in ucp1 knockout mice. *Biomedicines*. 2021Nov 9. doi: 10.3390/biomedicines9111549
- 4.Dhanasekara, C.S., Chin, S.H., Kahathuduwa, C.N.Severity and case fatality rates of COVID-19: A systematic review, meta-analysis and an exploratory meta-regression of risk factors. *The Southwest Respiratory and Critical Care Chronicles*. 2021 Oct 22;9(41):8-19. doi: 10.12746/swrccc.v9i41.921
- 5.Dhanasekara C. S., Marschke B., Morris E., Kahathuduwa C. N.,Dissanaike S. Global patterns of necrotizing soft tissue infections: A systematic review and meta-analysis. *Surgery*. 2021 Aug 3:S0039-6060(21)00650-4. doi: 10.1016/j.surg.2021.06.036.
- 6.Vorland C. J., Brown A. W., Dawson J. A., Dickinson S. L., Golzarri-Arroyo L., Hannon B. A., Heo M., Heymsfield S. B., Jayawardene W. P., Kahathuduwa C. N.,Keith S. W., Oakes J. M., Tekwe C. D., Thabane L., Allison D. B. Errors in the implementation, analysis, and reporting of randomization within obesity and nutrition research: a guide to their avoidance. *Int J Obes (Lond)*. 2021 Jul 29. doi: 10.1038/s41366-021-00909-z.
- 7.Liu D., Kahathuduwa C., Vazsonyi A. T. The Pittsburgh Sleep Quality Index (PSQI): Psychometric and clinical risk score applications among college students. *Psychol Assess*. 2021 May 20. doi: 10.1037/pas0001027.
- 8.Kahathuduwa, C. N., Wakefield S. M., West, B., Blume, J., Mastergeorge, A. L-theanine and caffeine improve sustained attention, impulsivity and cognition in children with attention deficit hyperactivity disorders by decreasing mind wandering. *Scientific Reports* (accepted, in press) (* correspondingauthor)
- 9.Dassanayake T. L., Kahathuduwa C. N., Weerasinghe V. S. L-theanine improves attention in a dose-dependent manner: a cognitive event-related potential study. *Nutritional Neuroscience* (accepted, in press)

Book Chapters

1. Babcock R., Khandelwal J., Wilkinson C. E., Kahathuduwa C.,Schlabritz-Loutsevitch N. Supporting medical writers in the twenty-first century. *Teaching Writing in the Health Professions -Perspectives, Problems, and Practices* by Routledge (2022). ISBN 9780367750886

Presentations and posters (National and International)

1. Kahathuduwa, C.* & Robohm-Leavitt, C.* (*presenting authors). Implementing a research methods curriculum for physician assistant students (TSAHP Research Award Oral Presentation). Texas Society for Advancement of Health (TSAHP) 43rd Annual Conference/Virtual conference, TX, USA. Sep 16-17, 2021
2. Bayazit H., Wakefield S., Dhanasekara C. S., Baronia R., Mastergeorge A., Kahathuduwa C. N. Investigation of the Association between Brain Structural Connectivity and Intelligence Quotient in Children with Autism Spectrum Disorders. Accepted for a poster presentation at the 68th Annual Meeting of the American Academy of Child and Adolescent Psychiatry, October 18-30, 2021.
3. Yavari M., Ramalingam L., Harris B. N., Kahathuduwa C., Chavira A., Biltz C., Mounce P., Alers K. A., Davis M., Zu Y., Moustaid-Moussa N. Protective Effects of Eicosapentaenoic Acid on Metabolic features and Cognitive function in the APP^{swe}PS1^{dE9} Alzheimer's Mouse Model. Alzheimer's Association International Conference 2021 Jul 26-30 (virtual).
4. Yavari M., Ramalingam L., Harris B., Kahathuduwa C., Scoggin S., Chavira A., Biltz C., Mounce L., Maldonado K. A., Davis M., Zu Y. Protective Effects of Eicosapentaenoic Acid on Adiposity and Amyloidogenic Features in the APP^{swe}PS1^{dE9} Alzheimer's Mouse Model. Nutrition 2021 (Annual Meeting of the American Society of Nutrition). June 7-10, 2021 (virtual).
5. Albracht-Schulte K., Galindo S., Anjum S., Pahlavani M., Ramalingam L., Kalupahana N., 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. Nutrition 2021 (Annual Meeting of the American Society of Nutrition). June 7-10, 2021 (virtual).
6. Blume J. E., Kahathuduwa C. N., Mastergeorge A. Intrinsic structural connectivity of the default mode network and behavioral correlates of executive function and social skills in youth with ASD. Annual Meeting of the International Society for Autism Research. May 3-7, 2021 (virtual conference).
7. Pan, S., Ali, K., Kahathuduwa, C., Baronia, R., & Ibrahim, Y. Meta-analysis of positive psychology interventions on the treatment of depression. Annual Meeting of the American Psychiatric Association/Virtual conference, UA, USA. May 02, 2021.
8. Kahathuduwa, C. N., Dhanasekara C. S., Wakefield S. M., Mastergeorge A. M. Effects of overweight or obesity on brain structural connectivity of children with autism spectrum disorders. Society for Research in Child Development Biennial Meeting; April 7-9, 2021 (virtual conference) (Individual Flash Talk Paper)
9. Shen C L, Kahathuduwa C, Chyu M C, Brismée J M, Knox A, Wang R, Luk H Y, Appell C, O'Boyle M, Zumwalt M, Lee J, Watkins BA, Neugebauer V. Neurobiological mechanisms of pain modulation from Tai Chi: a single arm pre/post pilot study. Integrative Medicine & Health Symposium, April 11-13, 2021 (virtual conference)
10. Ali, H. A., Jacobparayil, A., Siddiqui, A., Singh, A., Kahathuduwa, C. N., Chavez, M., Baronia, R. B., & Ibrahim, Y. Association between positive psychological factors and the prevalence of anxiety in medical students. Annual Meeting of the American Neuropsychiatric Association. Virtual conference, UA, USA. March 19, 2021.

Presentations and posters (Regional Conferences)

1. Daniel Payberah, Joanna Chyu, Chathurika Dhanasekara, Chwan-Li Shen, Chanaka Kahathuduwa. The Effectiveness of Botulinum Toxin in the Prevention and Treatment of Tension-Type Headaches: A Systematic Review and Meta-Analysis. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas. (Corresponding author; Best poster presentation in systematic reviews category won by the mentee).
2. Kevin, Chin, Haven Ward, Chathurika Dhanasekara, Dale Dunn, Chwan-Li Shen, Chanaka Kahathuduwa. Post-Intervention Effects of Tai Chi and Qi Gong on Depression Scores: A Systematic Review and Meta-

Analysis. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas (Corresponding author; 3rd best poster presentation in systematic reviews category won by the mentee).

3. Samudani Dhanasekara, Brianna Marschke, Erin Morris, Chanaka Kahathuduwa, Sharmila Dissanaiké. Global Patterns and Outcome of Necrotizing Soft Tissue Infections: A Systematic Review and Meta-Analysis. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas.

4. Adam Wynn, Amber Nelson, Megan Spradley, Chathurika Dhanasekara, Christina Robohm-Leavitt, Chwan-Li Shen, Chanaka Kahathuduwa. Effects of Consumption of Coconut Oil or Coconut on Glycemic Control and Insulin Sensitivity: A Systematic Review and Meta-Analysis of Interventional Trials. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas (Corresponding author)

5. Haven Ward, Kevin, Chin, Chathurika Dhanasekara, Dale Dunn, Chwan-Li Shen, Chanaka Kahathuduwa. Post-intervention Effects of Tai Chi and Qi Gong on Anxiety Scores: A Systematic Review and Meta-Analysis. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas (Corresponding author)

6. Shannon Pan, Kiran Ali, Chanaka Kahathuduwa, Regina Baronia, Yasin Ibrahim. Meta-analysis of Positive Psychology Interventions on the Treatment of Depression. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas.

7. Hisham Ali, Adrian Jacobparayil, Arham Siddiqui, Aastha Singh, Chanaka N. Kahathuduwa, Marina Chavez, Regina Baronia, Yasin Ibrahim. Association between positive psychological factors and the prevalence of anxiety in medical students. 33rd Annual Student Research Week (March 9-12, 2021), Texas Tech University Health Sciences Center, Lubbock, Texas.

8. Annu Dixit, Sarah Kennedy, Rivera Elsy, Tina Thai, Chanaka N. Kahathuduwa, Sabeena Rahman, Christopher Maguire, Kathryn Hutton, Christopher Enakpene, Daniela Pino, Michael Galloway, Natalia Schlabritz-Lutsevich. Perception of Quality of Care in Obstetrics and Gynecology Outpatients' Clinic During COVID-19 Pandemics. 30th Annual Permean Basin Research Day, April 29, 2021.

Posters-see above

Grant Awards

Co-I USDA NIFA AFRI REEU \$500,000. 09/01/2021 – 08/31/2024 Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program (PI: Dr. Naima Moustaid-Moussa)

Chanaka Kahathuduwa (Psychiatry Lbk). Title: Texas Child Mental Health Consortium CPAN, TCHATT, CPWE, and CAP Fellowship (Contract grant – University of Texas System). Funded by Texas Higher Education Coordinating. \$500,000 for 1 year.

Grant Applications

PI (subaward to TTUHSC) USDA: A1344 \$10,000,000. 01/01/2021-12/31/2024. Innovative Nutrition Education Program for Underserved (iNEP4U) Families: A Mobile Classroom to Prevent Chronic Diseases (PI: Oak-Hee Park; MPI: Naima Moustaid-Moussa, TTU)

PI (subaward to TTUHSC) NSF-20-556: SenSE \$750,000 01/01/2021-12/31/2023. SenSE: Early Diagnostics of ADHD among Children with Multimodal Sensors. PI: Victor Sheng, TTU)

Co-PI National Institute of Health –NCCIH (R01) \$500,000. 4/01/2021-03/31/2025. Clinical investigation of Tai Chi and n-3 PUFA on endocannabinoid modulation and brain fMRI connectivity in knee OA pain (PI: Leslie Shen; MPI: Volker Neugebauer)

PI National Egg Board. \$56,400 Not funded. 09/01/2020-08/31/2021. Mechanistic Study of Heat Therapy and Exercise on Vascular Function and the Translational Impact in Hispanic Americans with Obesity

Consultant NSF: Smart and Connected Health (SCH; NSF 18-541). \$1,200,000. Pending 09/01/2020-08/31/2023 Smart Home Real-Time Multi-Abnormal Detection with A Radio Sensing Network. (PI: Victor Sheng, TTU)

Consultant NSF: AI research institute program. \$1,200,000. Pending 09/01/2020-08/31/2023. AI Institute: Planning: A Research and Practice Hub of Self-Aware Data (PI: Victor Sheng, TTU)

Co-I National Institute of Health, R03. \$100,000 Pending 01/01/2021-12/31/2022. Sex and Obesity as Risk Factors for Occupational Thermal Injuries (PI: Eric Rivas)

Co-I American Heart Association \$199,000. Pending 01/01/2021-12/31/2021. Ethnic vascular health disparities of adult survivors of pre-term birth.

Kaur, Gurvinder

Publications

1. Shen CL, Ramamoorthy S, Kaur G, Dufour JM, Wang R, Mo H, Watkins BA (2021). Dietary annatto-extracted tocotrienol reduces inflammation and oxidative stress, and improves macronutrient metabolism in obese mice: a metabolic profiling study. *Nutrients* 13, 1267, <https://doi.org/10.3390/nu13041267>.
2. Washburn RL, Hibler T, Thompson LA, **Kaur G, Dufour JM. 2021 Therapeutic application of Sertoli cells for treatment of various diseases. *Seminars in Cell and Development Biology*; 25: S1084-9521(21)00080-X.
3. Helmer RA, Martinez-Zaguilan R, Kaur G, Smith LA, Dufour JM, Chilton BS. Helicase-like transcription factor-deletion from the tumor microenvironment in a cell line-derived xenograft model of colorectal cancer reprogrammed the human transcriptome-S-nitroso-proteome to promote inflammation and redirect metastasis. *PLoS ONE*; 16(5):e0251132.
4. Washburn RL, Mueller K, Kaur G, Moreno T, Moustaid-Moussa N, Ramalingam L, Dufour JM. 2021 C-peptide as a therapy for Type 1 Diabetes Mellitus. *Biomedicines* 9(270): 1-24.
5. Sivaprakasam S, Sikder MOF, Ramalingam L, Kaur G, Dufour JM, Moustaid-Moussa N, Wachtel MS, Ganapathy V. 2021 SSLC6A14 deficiency is linked to obesity, fatty liver, and metabolic syndrome but only under conditions of a high-fat diet. *Biochim Biophys Acta Mol Basis Dis* 1867(5): 1-10.
6. **Kaur G, Wright K, Mital P, Hibler T, Miranda JM, Thompson LA, Halley K, **Dufour JM. Neonatal pig Sertoli cells survive xenotransplantation by creating an immune modulatory environment involving regulatory T cells. *Cell Transplant*. 29: 1-21.
7. Chung E, Elmassry MM, Cao JJ, Kaur G, Dufour JM, Hamood AN, Shen CL (2021). Beneficial effect of dietary geranylgeraniol on glucose homeostasis and bone microstructure in obese mice is associated with. Suppression of proinflammation and modification of gut microbiome. *Nutr Res*. 93:27-37.

Presentations

1. Washburn RL, Kaur G, Dufour JM. Expression of CD46 and CD55 are critical to testicular Sertoli cell survival of hyperacute rejection. 2021 Texas Forum for Reproductive Sciences, 26th Annual Meeting (Virtual, June 17-18, 2021).

2. Hibler T, Kaur G, Dufour JM. Sertoli cell induction of Tregs: a critical component of Sertoli cell immune-regulation in transplantation. The American Association of Immunologists (Virtual, May 10-15, 2021). Selected for Block Symposium.
3. Washburn RL, Kaur G, Dufour JM. Xenogeneic Sertoli cells express complement inhibitory proteins necessary for their survival of hyperacute rejection. The American Association of Immunologists (Virtual, May 10-15, 2021).
4. Kaur G, Webster D. Incorporation of a clinically oriented case study into a multi-subject medical school block increased student engagement in a remote learning environment. Experimental Biology (Virtual, April 27-30, 2021).
5. Wall J, Rodriguez J, Dang M, Kaur G, Bishop K, Schneider B. Effect of a Three-Dimensional anatomy atlas on medical education under pandemic restrictions. Experimental Biology (Virtual, April 27-30, 2021).
6. Davis V, Plata G, Gunter B, Rodriguez J, Wall J, Dang M, Gilbert K, Kaur G, Bishop K, Schneider B. Lessons learned from teaching in person cadaveric anatomy during the COVID-19 pandemic. Experimental Biology (Virtual, April 27-30, 2021).
7. Ochoa O, Sellers J, Coleman, Kaur G. Poster, Special case patients: Use of standardized patients to diversify clinical experience during preclinical curriculum. P3-1C Week, Honors Project poster presentation, School of Medicine, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021.
8. Dang M, Schneider BL, Bishop K, Kaur G. Poster, Use of 3D human anatomy modules to facilitate medical school learning in the era of COVID-19., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021 (First prize).
9. Gunter B, Kaur G, Schneider BL. Poster, Spaced repetition and imaging comprehension: How Anki can improve study efficacy of imaging material in medical education., 33rd Annual, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021.
10. Plata G, Davis V, Schneider BL, Kaur G, Bishop K. Poster, Teaching Unit 1 Clinically Oriented Anatomy during the COVID-19 pandemic., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021.
11. Davis V, Plata G, Kaur G, Bishop K, Schneider BL. Poster, Teaching Unit 2 Clinically Oriented Anatomy during the COVID-19 pandemic., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021.
12. Wall J, Kaur G, Bishop K, Schneider BL. Poster, Use of a three-dimensional anatomy atlas to supplement student learning during pandemic restrictions., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021.
13. Rodriguez J, Kaur G, Schneider BL, Bishop K. Poster, Evaluating student satisfaction and performance on the uses of a three-dimensional anatomy atlas under pandemic restrictions., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021.
14. Hibler T, Kaur G, Dufour JM. Poster, Tregs, Transplants, and TGF- β : How Sertoli cells prevent acute graft rejection., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021 (Second prize).
15. Washburn RL, Kaur G, Dufour JM. Poster, Complement inhibitory protein production by xenogeneic Sertoli cells is necessary for their survival of hyperacute rejection., 33rd Annual Student Research Week, Texas Tech University Health Sciences Center, School of Medicine, Lubbock, Texas, March 2021 (Third prize).

Posters: none

Grant Awards

The CH Foundation (\$75,000)

Kaur (Co-I)

01/01/2022-12/31/2022

The role of TGF β and retinoic acid in Sertoli cell induction of Tregs.

The focus of this project is to examine the mechanism for Sertoli cell immune regulation, specifically the role of TGF β and atRA in SC induction of stable regulatory T cells, as a means to improve Sertoli cell immune protection of transplanted islets for the treatment of diabetes.

The CH Foundation (\$60,000)

Kaur (PI)

01/01/2021-12/31/2021

Investigation of porcine Sertoli cell immune regulation to improve islet xenograft survival as a treatment for diabetes.

The focus of this project is to investigate the role of complement inhibitors (specifically MCP and DAF) expressed by neonatal pig Sertoli cells in inhibiting complement mediated cell lysis and modulating the cell mediated immune response.

Grant Applications: none

Lawrence, John

Publications

#CEIH Members

1. S. Awasthi, A. Hindle, N. A. Sawant, M. George, M. Vijayan, S. Kshirsagar, H. Morton, L. E. Bunquin, P. T. Palade, #J. J. Lawrence, H. Khan, C. Bose, P. H. Reddy and #S. P. Singh (2021). RALBP1 in Oxidative Stress and Mitochondrial Dysfunction in Alzheimer's Disease. *Cells* 10(11):3113. Accepted 11/6/21; published 11/10/2021.
2. F. Yi, T. Garrett, K. Deisseroth, H. Haario, E. Stone, and #J. J. Lawrence (2021). Septohippocampal transmission from parvalbumin-positive neurons features rapid recovery from synaptic depression. *Scientific Reports* 11: 2117. Accepted 12/14/20; published 1/22/21. *As of 1/9/22, this article has had 1437 article accesses and is in the 84th percentile (rank 8th) of the 53 tracked articles of a similar age in *Scientific Reports*.

Abstracts, National/International

1. J. Almaguer, B. R. Kisby, K. Casteneda, A. J. Pascullo, R. Barnes, M. Manczak, J. D. Bailoo, I. Ponomarev, and J. J. Lawrence. Presentation P196. All-trans retinoic acid deficiency in Alzheimer's disease: evidence from human transcriptomics and a novel mouse model. 2021 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2021. Online.
2. #S.P. Singh, H. Morton, S. Kshirsagar, C. Bose, A. Hindle, N. A. Sawant, L. E. Bunquin, M. Vijayan, P. T. Palade, #J. J. Lawrence, P. H. Reddy, and S. Awasthi. Presentation P893.10. Role of RalBP1 in Cognitive Dysfunction and Neuronal Aging in mouse model. 2021 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2021. Online.
3. J. Guindon (Chair), H. Hunsberger, N. Ebner, and J. J. Lawrence (Co-Chair). Sex Differences in Aging From Sleep, Pain, Brain Circuitry, and Disease States. Panel session, Winter Conference on Brain Research, Snowmass, CO, January 30th-February 4th, 2022. Panel Discussion title: "All-Trans Retinoic Acid Deficiency in Alzheimer's Disease Hippocampus: Novel Mouse and Human Evidence", February 3rd, 2022. Abstract accepted on 11/22/21.

Abstracts, Regional

4. M. Pourghaed, A. Sarangi, F. Ramirez Velandia, J. Kopel, J. Culberson, G. Ashworth, H. Khan, A. Boles, #V. Neugebauer, and #J. J. Lawrence. Depression, Vitamin D, and Health Disparities among Hispanics in Older Rural West Texans: A Project FRONTIER Study. Texas Alzheimer's Research And Care Consortium 2022 Scientific Symposium: Advances in Alzheimer's Disease Science, Research, and Care, Austin TX, January 27th, 2022. Abstract accepted 12/21/21. TARCC meeting postponed.
5. J. Almaguer, M. Mahmud-Syed, K. Pruitt, M. Manczak, I. Ponomarev, and #J. Josh Lawrence. Hippocampal All-Trans Retinoic Acid (ATRA) Deficiency in Alzheimer's Disease: An Investigation of ATRA-Dependent Gene Transcription In Post-Mortem Hippocampal Tissue. Texas Alzheimer's Research And Care Consortium 2022 Scientific Symposium: Advances in Alzheimer's Disease Science, Research, and Care, Austin TX, January 27th, 2022. Abstract accepted 12/21/21. TARCC meeting postponed

Presentations-none

Posters-none

Local

1. *A. Sarangi, M. Pourghaed, F. Ramirez Velandia, G. Ashworth, J. Culberson, H. Khan, A. Boles, V. Neugebauer, and #J. J. Lawrence. Associations between Vitamin D Levels, Depression, and Hispanic/Latino Ethnicity among Older Rural West Texans: A Project FRONTIER Study. Center of Excellence for Translational Neuroscience and Therapeutics and Garrison Institute on Aging 5th Annual Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, May 5th, 2021. *Dr. Sarangi won 2021 Poster Award Winner for the Clinical Post Graduate/Trainee Category.
2. *I. Castro-Piedras, B. Kisby, I. Ponomarev, #J. J. Lawrence, and K. Pruitt. Role of aberrant Wnt/Ca²⁺ signaling in Alzheimer's disease and cancer. Center of Excellence for Translational Neuroscience and Therapeutics and Garrison Institute on Aging 5th Annual Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, May 5th, 2021. *Dr. Castro-Piedras won 2021 Poster Award Winner for the Basic Science Post Graduate/Trainee Category.
3. K. Castaneda, B. Kisby, A. J. Pascullo, J. Almaguer, R. Barnes, J. D. Bailoo, I. Ponomarev, and #J. J. Lawrence. All-trans retinoic acid deficiency in Alzheimer's disease: evidence from human transcriptomics and a novel mouse model. Center of Excellence for Translational Neuroscience and Therapeutics and Garrison Institute on Aging 5th Annual Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, May 5th, 2021.
4. M. Pourghaed, F. Ramirez Velandia, A. Sarangi, G. Ashworth, J. Culberson, H. Khan, A. Boles, #V. Neugebauer, and #J. J. Lawrence. Associations between Vitamin D Levels with Hispanic/Latino Ethnicity, General Health Status, and Co-Morbid Conditions among Older Rural West Texans: A Project FRONTIER Study. Center of Excellence for Translational Neuroscience and Therapeutics and Garrison Institute on Aging 5th Annual Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, May 5th, 2021.
5. M. Pourghaed, F. Ramirez Velandia, A. Sarangi, J. Culberson, and #J. J. Lawrence. Association of Vitamin D insufficiency/deficiency with depression, obesity, and diabetes in an ethnically diverse population in West Rural Texas – A follow up analysis of Project FRONTIER. 33rd Annual Student Research Week 2021: NEURO: New Experiences Unfold Research Opportunities, Texas Tech University Health Sciences Center, Lubbock, TX, March 9th-12th, 2021.

Grant Awards

Transcriptional Dysfunction in Dentate Gyrus Cell Types: Roles of Retinoic Acid Responsive Genes in Protection Against Alzheimer's Disease Pathogenesis NIH R01 AG071859-01A1 Lawrence (PI) 1/1/2022-

12/31/2026 Total costs: \$1,872,220 There is growing evidence that pathological accumulation of toxic reactive oxygen species (ROS) is an early event in the hippocampal dentate gyrus (DG) of patients with Alzheimer's disease. This proposal tests the hypothesis that depletion of the antioxidant all-trans retinoic acid (ATRA) in the DG promotes ROS toxicity, mitochondrial dysfunction, and transcriptional dysregulation of ATRA-sensitive genes. Combining novel AD mouse model crosses, single cell transcriptomics, and electrophysiology, this proposal investigates roles of RA in preserving DG-specific learning, DG circuit function, and transcription of RA-sensitive genes across DG cell types. Role: PI Resubmitted 3/5/21. Assigned to NIH Chronic Dysfunction and Integrative Neurodegeneration Study Section. Supplementary Materials submitted 5/11/21. Scored at 22.0% on 6/16/21. Advisory Council meeting date 9/14/21. Notice of Award came on 12/23/21. Start date for grant was 1/1/22.

Grant Applications-none

Lee, Sueann

Publications

1. Byrd, A., Ramos-Pizarro, A., **Lee, S.A.S.**** (in press). Revealing Anti-Asian Sentiment in the Classroom and Workplace. *The ASHA Leader*
2. **Lee, S.A.S.**** (in press). Services beyond the United State: Fulbright US Scholar Experience in Vietnam. *ASHA Perspectives* 17
3. Tao, S. & **Lee, S.A.S.**** (in press). Treatment intensity of speech intervention via telepractice for children with speech sound disorders: A systematic review. *EBP Briefs*
4. Nguyen, M.D., **Lee, S.A.S.****, Kayakawa, T., Yamamoto, M., Natsume, N. (2021). Normative nasalance values in Vietnamese with Southern dialect: Vowels and tone effects. *Journal of Speech-Language-Hearing Research*, 64, 1515-1525.
5. *Gibson, T., & **Lee, S.A.S.**** (2021). The effects of ultrasound biofeedback in speech intervention for young children with hearing loss. *Clinical Linguistics & Phonetics*. 35, 438-457.

Presentations

Posters

Grant Awards

2021-2027 \$3,199,247.00

National Institute of Dental and Craniofacial Research (NIDCR), UG3-UH3 Grant

Project title: Speech intervention via telepractice for children with repaired cleft palate: Randomized controlled trial and assessment of speech production and perception skills.

Role: Principle Investigator

Scored (overall impact score = 29)

Grant Applications: none

Luk, HuiYing

Publications

1. Luk, HY., Appel, C., Levitt, DE., Jiwan, NC., Vingren, JL. (2021). Differential Autophagy Response in Men and Women After Muscle Damage. *Frontiers in Physiology*; <https://doi.org/10.3389/fphys.2021.752347>
2. ** Shen, CL., Watkins, BA., Kahathuduwa, C., Chyu, MC., Zabet-Moghaddam, M., Elmassry, MM., Luk, HY., Brismee, JM., Knox, A., Lee, J., Zumwalt, M., Wang, R., Wager, TD., Neugebauer, V. (2021). Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women with Knee Osteoarthritis: An Exploratory Pilot. *Frontiers in Medicine*; doi: 10.3389/fmed.2021.775344
3. Vingren, JL., Boyett, JC., Lee, EC., Levitt, DE., Luk, HY., McDermott, BP., Munoz, CX., Ganio, MS., Armstrong, LE., Hill, DW. Effect of Ibuprofen on Circulating Cytokine and Leukocyte Subset Responses to 164-km Road Cycling Event in a Hot Environment. *Research Quarterly for Exercise and Sport* (Accepted)
4. Luk, HY., Levitt, DE., Appel, C., Vingren, JL. (2021). Sex dimorphism in muscle damage-induced inflammation. *Medicine & Science in Sports & Exercise*. 53 (8), 1595-1605; doi: 10.1249/MSS.0000000000002628
5. Luk, HY., Jones, MT., Vingren, JL. (2021). Effect of rest period configurations on systemic inflammatory response in resistance-trained women, *Journal of Sports Sciences*, <https://doi.org/10.1080/02640414.2021.1882725>

Presentations-none

Posters-none

Grant Awards

**Agency: American River Nitration

Title: Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy.

Shen CL (PI, 10%), Ansari M. (Co-I), Dunn D. (Co-I), Luk HY (Co-I), Lee J. (Co-I)

Amount Obtained: \$266,294

Duration: 2022-2023

Percent of effort: 5%

Grant Applications-none

Lyford, Conrad

Publications

1. Gong, Zijan and Conrad Lyford. "Using Social Media for More Engaged Users and Enhanced Health Communication in Diabetes Care," *American Journal of Lifestyle Medicine*, January 2022. doi:10.1177/15598276211064832
2. Kwaku, Antwi and Conrad Lyford. "Socioeconomic Determinants of Rural Households' Food Security Status in Northern Ghana," *Journal of Agricultural and Food Sciences*, October 2021 19(2): 85-93. <https://dx.doi.org/10.4314/jafs.v19i2.9>

3. Rana, Ziaul, Debra Reed, Wilna Oldewage-Theron, Conrad Lyford, Malinda Colwell, John Dawson. "Overweight or Obesity Onset and Past Attempts to Lose/Manage Weight: A Qualitative Study," *Obesities*, October 2021, 1: 136-143.

Presentations-none

Posters-none

Grant Awards-none

Grant Applications-none

Mello, Inola

Publications

Published Journal Articles (Peer Reviewed) –National

1. Bruce, K. E., Hilliard, T. C., Esquibel, K. A., Mello, I. T., & Moore, A. M. ((May/June 2021). Hypertension across the lifespan: Adults. *Nursing Made Incredibly Easy*. 19(3), 28-35. CME article. doi: 10.1097/01.NME.0000741812.42477.88
2. Esquibel, K. A., Moore, A. M., Bruce, K. E., Hilliard, T. C., & Mello, I. T. (2021). Hypertension across the lifespan: Pediatrics. *Nursing Made Incredibly Easy*.19(2) 28-34. CME article. doi: 10.1097/01.NME.0000731976.81322.47
3. Hilliard, T. C., Mello, I. T., Moore, A. M., Esquibel, K. A., & Bruce, K. E. (July/August 2021). Hypertension across the lifespan: Older Adults. *Nursing Made Incredibly Easy*.19(4), 30-37. CME article.doi: 10.1097/01.NME.0000753040.28121.7b

Presentations-none

Posters-none

Grant Awards

2008 Women with Genital Piercing Study, Examining the Use of Genital Piercings as a Self-Care Intervention for Women, Mello, I. T. (Co-Principal Investigator), Young, C. (Co-Principal Investigator), Armstrong, M. L. (Co-Principal Investigator), & Roberts, A. E.(Co-Principal Investigator)

Grant applications-none

Moustaid-Moussa, Naimi

Publications

1. Choi, J.M., Camfield, E., Bowman, A., Rajan, K., Labbé, N., Gwinn, K.D., Ownley, B.H., Moustaid-Moussa, N., D'Souza, D.H. Value-added switchgrass extractives for reduction of Escherichia coli O157: H7 and Salmonella Typhimurium populations on Formica coupons. *Food Microbiol*. 95:103674, 2021.
- 2.Sivaprakasam, S., Sikder, M.O.F, Ramalingam, L, Kaur, G, Dufour J.M,Moustaid-Moussa N, Wachtel, M.S, Ganapathy, V. SLC6A14 deficiency is linked to obesity, fatty liver, and metabolic syndrome but only under conditions of a high-fat diet.*Biochim Biophys Acta Mol Basis Dis*. 1867(5):166087, 2021
- 3.Baek, S.J., Hammock, B.D., Hwang, I.K., Li, Q., Moustaid-Moussa, N., Park, Y., Safe, S., Suh, N., Yi, S.S., Zeldin, D.C.,Zhong, Q., Bradbury, J.A., Edin, M.L., Graves, J.P., Jung, H.Y., Jung, Y.H., Kim, M.B., Kim, W., Lee, J., Li, H., Moon, J.S., Yoo, I.D., Yue, Y., Lee, J.Y., Han, H.J.. *Natural Products in the Prevention of*

Metabolic Diseases: Lessons Learned from the 20th KAST Frontier Scientists Workshop. *Nutrients*. 13(6):1881, 2021

4. Zu, Y., Zhao, L., Hao, L., Mechref, Y., Zabet-Moghaddam, M., Keyel, P.A., Abbasi, M., Wu, D., Dawson, J.A., Zhang, R., Nie, S., Moustaid-Moussa, N., Kolonin, M.G., Daquinag, A.C., Brandi, L., Warraich, I., San Francisco, S.K., Sun, X., Fan, Z., Wang, S.. Browning white adipose tissue using adipose stromal cell-targeted resveratrol-loaded nanoparticles for combating obesity. *J Control Release*; 333:339-351, 2021

5. Bruno RS, Neilson AP, Lambert JD, Moustaid-Moussa N. Polyphenols, obesity, and cardiometabolic health (Editorial, Special Issue). *J Nutr Biochem*.89:108565. doi: 10.1016/j.jnutbio.2020.108565. 2021 PMID: 33321186

6. DJ Klionsky, AK Abdel-Aziz, S Abdelfatah, M Abdellatif, A Abdoli, S Abel,..... Moustaid-Moussa, N., Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*17 (1), 1-382, 2021.

7. Washburn, R.L., Mueller, K., Kaur, G., Moreno, T., Moustaid-Moussa, N., Ramalingam, L., Dufour, J.M. C-Peptide as a Therapy for Type 1 Diabetes Mellitus. *Biomedicines*.9(3):270, 2021.

8. Munir, M.T., Kay, M.K., Kang, M.H., Rahman M,M,, Al-Harrasim A,, Choudhury M,, Moustaid-Moussa N,, Hussainm F., RahmanmS,M. Tumor-Associated Macrophages as Multifaceted Regulators of Breast Tumor Growth. *Int J Mol Sci*.22(12):6526, 2021

9. Zahid, M.K., Sufian, H.B., Choudhury, M., Yamasaki, M., Al-Harrasi, A., Moustaid-Moussa, N., Rahman, S.M. Role of macrophage autophagy in atherosclerosis: modulation by bioactive compounds. *Biochem J*.16;478(7):1359-1375, 2021.

10. Miller, E.K., Pahlavan, i M., Ramalingam, L., Scoggin, S., Moustaid-Moussa, N. Uncoupling protein 1-independent effects of eicosapentaenoic acid in brown adipose tissue of diet-induced obese female mice. *J Nutr Biochem*. 98:108819, 2021

11. de Miranda, F.S., Guimarães, J.P.T., Menikdiwela, K.R., Mabry, B., Dhakal, R., Rahman, R.L., Moussa, H., Moustaid-Moussa, N.. Breast cancer and the renin-angiotensin system (RAS): Therapeutic approaches and related metabolic diseases. *Mol Cell Endocrinol*.15; 528:111245, 2021

12. Gordon-Larsen, P., French, J.E., Moustaid-Moussa, N., Voruganti, V.S., Mayer-Davis, E.J., Bizon, C.A., Cheng, Z., Stewart, D.A., Easterbrook, J.W., Shaikh, S.R. Synergizing mouse and human studies to understand the heterogeneity of obesity. *Adv. Nutr.*In Press, 2021

13. Ramalingam, L., Menikdiwela, K.R., Spainhour, S., Eboh, T., Moustaid-Moussa, N. Sex Differences in Early Programming by Maternal High Fat Diet Induced-Obesity and Fish Oil Supplementation in Mice. *Nutrients*.13(11):3703, 2021

14. Dhakal, R., Yosofvand, M., Yavari, M., Abdulrahman, R., Schurr, R., Moustaid-Moussa, N., Moussa, H. Review of Biological Effects of Acute and Chronic Radiation Exposure on *Caenorhabditis elegans*. *Cells*.10(8):1966, 2021

15. Islam, T., Koboziev, I., Albracht-Schulte, K., Mistretta, B., Scoggin, S., Yosofvand, M., Moussa, H., Zabet-Moghaddam, M., Ramalingam, L., Gunaratne, P.H., Moustaid-Moussa, N. Curcumin Reduces Adipose Tissue Inflammation and Alters Gut Microbiota in Diet-Induced Obese Male Mice. *Mol. Nutr. Food Res*.65(22):e2100274, 2021

16. Albracht-Schulte, K., Wilson, S., Johnson, P., Pahlavani, M., Ramalingam, L., Goonapienuwala, B., Kalupahana, N.S., Festuccia, W.T., Scoggin, S., Kahathuduwa, C.N., Moustaid-Moussa, N. Sex-Dependent Effects of Eicosapentaenoic Acid on Hepatic Steatosis in UCP1 Knockout Mice. *Biomedicines*.27;9(11):1549, 2021

17. Parkman, J.K., Sklioutovskaya-Lopez, K., Menikdiwela, K.R., Freeman, L., Moustaid-Moussa, N., Kim, J.H. Effects of high fat diets and supplemental tart cherry and fish oil on obesity and type 2 diabetes in male and female C57BL/6J and TALLYHO/Jng mice. *J. Nutr. Biochem.* 94:108644; 2021
18. Taren, D., Akseer, N., Davis, C.D., Miller, J.W., Moustaid-Moussa, N., Novotny, R., Slupsky, C.M., Saroja Voruganti, V., Cameron, J.M. Eighty years of nutritional sciences, and counting. *Nutr Rev.* 80(1):1-5, 2021
19. Pal, A., Sun, S., Armstrong, M., Manke, J., Reisdorph, N., Adams, V.R., Kennedy, A., Zu, Y., Moustaid-Moussa, N., Carroll, I., Shaikh, S.R. Beneficial effects of eicosapentaenoic acid on the metabolic profile of obese female mice entails upregulation of HEPEs and increased abundance of enteric *Akkermansia muciniphila*. *Biochim Biophys Acta Mol Cell Biol Lipids.* 867(1):159059; 2022

Presentations-none

Posters-none

Grant Awards

1. PI Moustaid-Moussa Current: NSF-I-Corps. 50,000. 7/2021-12/2022. Assessment of metabolic health using nuclear magnetic resonance relaxometry device
2. PI Moustaid-Moussa Current: USDA REEU. 500,000. 7/2021-6/2026. Nutrition BEST: Bench to Community Scholars of Texas

Grant Applications

1. PI (Subcontract) Pending: NIH \$430,000. (TTU, \$112,670) 09/2022-12/2025. Novel Pathways and miRNA Targets for the Renin Angiotensin Aldosterone System
2. PI Pending: NIH FIRST. \$15M. 09/2022-8/2027. RAMP UP: Recruiting and Mentoring Program for Underrepresented Persons
3. PI/MPIMPI: Festuccia, Univ. Sao Paulo, Brazil Not funded NIH R01 (Dual NIH-FAPESP). 2,362,000 (TTU, 1,500,000) 09/2022-06/2027 Mechanisms mediating UCP1-independent effects of fish oil

Murimi, Mary

Publications

1. Daba, A. K., Murimi, M., Abegaz, K., Hailu, D. (2021). Determinants and constraints to household-level animal source food consumption in rural communities of Ethiopia. *Journal of Nutritional Sciences*, Volume 10(e58), 1-10. <https://doi.org/10.1017/jns.2021.52>
2. Lee, H., Murimi, M.W. & Dawson, J.A. (2021) Factors Associated with Child Malnutrition in the Somali Region of Ethiopia: A Cross-Sectional Survey. *Glob Social Welfare* (2021). Published online. <https://doi.org/10.1007/s40609-021-00212-9>
3. Moyeda-Carabaza, A.F. & Murimi, M (2021). Differences in underlying causes of child undernutrition between a pastoral and an agro-pastoral community in Ethiopia. *Journal of Hunger & Environmental Nutrition*, 2021. Page:1-17. <https://doi.org/10.1080/19320248.2021.1938777>
4. Nguyen, B. & Murimi, M. (2021). Lack of calcium rich foods in the diet, low knowledge on calcium level recommendations and severe food insecurity predicts low calcium intake among Vietnamese women. *Appetite*: <https://doi.org/10.1016/j.appet.2021.105242>.

5.Moyeda-Carabaza, A.F., Githinji, P., Nguyen, B., Murimi, M. (2021). The influence of frequent consumption of meals away-from-home on the total diet quality and weight status among faculty and staff. Journal of American College Health. DOI: 10.1080/07448481.2021.1891081.

Presentations

International

1.Murimi, M.(2021), Women & Girls Leadership and Empowerment Conference, "Inspiring Impact: Discovering, Recovering, and Amplifying Voices," Woman's Health and Wellness, held online on August 18th, 2021. (Invited).

2.Murimi, M.,Carabaza, A. F. M. &, Archuleta, M, & Nguyen, B. (2021), "Designing Effective Face-to-Face and Online Based Nutrition Education Interventions for All: Adults, Children, Low Literacy and Food Insecure Populations.," Society for Nutrition Education and Behavior Annual Conference held online on August 9th, 2021.

3.Murimi, M., Theuri, S., Nordin, S.&, Piscopo, S. (2021) "The Pandemic Effect on Global Food Security, Food Systems and Nutrition Education Practice," Society for Nutrition Education and Behavior Conference, sponsored by Healthy Aging Division held online on August 9th, 2021. (Invited).

National

1.Archuleta, M. & Murimi, M.(2021). Enhancing organizational resiliency Part 2. California Academy of Nutrition and Dietetics Leadership Summit held online on January 30th, 2021. (invited).

2.Murimi, M.& Archuleta, M. (2021). Enhancing organizational resiliency Part 1. California Academy of Nutrition and Dietetics Leadership Summit held online on January 30th, 2021. (invited).

Posters-none

Grant Awards-none

Grant Applications-none

Nair, Nandini

Publications

1.Nair N, Yang S, Gongora E A risk prediction model for stroke in the early post-transplant period in adult cardiac allograft recipients --A UNOS database analysis Transplant. Proc (in press)

2.Nair N, Ray N, Pachharianon P, Burden R, Skeen N Impact of Outpatient Diuretic Infusion Therapy on Healthcare Cost and Readmissions Int J Heart Fail.(in press)

3.Nair N, Yang S, Marzbani C, Pillai AJ, Agusala V, Denega T, Tantrachoti P, Gongora E NT-proBNP and D-Dimer in acute decompensated heart failure: Assessment of diagnostic accuracy and correlation with echocardiographic parameters Acta Cardiol.(in press)

4.Chiu KC, Du D, Nair N, Du Y. Deep Neural Network-Based Survival Analysis for Skin Cancer Prediction in Heart Transplant Recipients. Annu Int Conf IEEE Eng Med Biol Soc.;2021:2144-2147.

5.Nair N,Hu Z, Du D, Gongora E. Risk prediction model for cutaneous squamous cell carcinoma in adult cardiac allograft recipients. World J Transplant. 2021 ;11:54-69. PMID: 33816146.

6.Nair N,Hu Z, Du D, Gongora E. Risk prediction model for basal cell carcinoma in cardiac allograft recipients. 2021 Transplant. Proc;53:1981-1988.PMID: 33931248

- 7.Nair N, Yang S, Gongora E.Impact of mechanical circulatory support on post-transplant stroke risk. Int J Artif Organs 2021Aug 18:3913988211035143. doi: 10.1177/03913988211035143
- 8.Nair N. Invasive hemodynamics in heart failure with preserved ejection fraction (HFpEF) ;Importance of detecting pulmonary vascularremodeling and right heart function Heart Fail Clin.2021;17:415-422.
- 9.Appiah D, Farias RM, Helo D, Appiah L Olokede OA, Nwabuo CC, Nair N . Association of marital status with takotsubo syndrome (broken heart syndrome) among adults in the United States World J Cardiology. 2021 ;13; 340-347.

ABSTRACTS published after peer review

- 1.Nair N, Johnston H, Du D A Machine Learning Model for Post-Transplant Lymphoproliferative Disorder Using the UNOS DatabaseJ Heart Lung Transpl 2022
- 2.Nair N, Johnston H, Du D A Logistic Regression Model for Post-Transplant Lymphoproliferative Disorder Using the UNOS DatabaseJ Heart Lung Transpl 2022
- 3.Nair N,Du D, Hu Z, GongoraE Risk Prediction Model for Survival of Wait List Patients on Axial CF-LVAD:

Neugebauer, Volker

Publications

Peer-reviewed

- 1.Navratilova, E., Nation, K., Remeniuk, B., Neugebauer, V., Bannister, K., Dickenson, A.H., Porreca, F. Selective modulation of tonic aversive qualities of neuropathic pain by morphine in the right central nucleus of the amygdala requires endogenous opioid signaling in the anterior cingulate cortex. Pain:161:609-618,2020. PMID: 31725062. PMC7124010[Featured Article: Editor's Choice].
- 2.Chen, Y., Moutal, A., Navratilova, E., Kopruszinski, C., Yue, X., Ikegami, M., Chow, M., Kanazawa, I., Bellampalli, S.S., Xie, J., Patwardhan, A., Rice, K., Fields, H., Akopian, A., Neugebauer, V., Dodick, D., Khanna, R., Porreca, F. The prolactin receptor long isoform regulates nociceptor sensitization and opioid-induced hyperalgesia selectively in females. Sci. Translat. Med.12:529 eaay7550, DOI: 10.1126/scitranslmed.aay7550, 2020. PMID: 32024801. PMC7523341[Evaluated in F1000 Faculty Opinions by I. Vetter and R. Ji, <https://f1000.com/prime/737321616>].
- 3.Neugebauer, V., Mazzitelli, M., Cragg, B., Ji, G., Navratilova, E., Porreca, F. Amygdala, neuropeptides, and chronic pain-related affective behaviors. Neuropharmacology170: 108052 (13 pp), 2020. PMID: 32188569. PMC7214122.
- 4.Ji, G. and Neugebauer, V. Kappa opioid receptors in the central amygdala modulate spinal nociceptive processing through an action on amygdala CRF neurons. Mol. Brain13: 128 (10 pp), 2020. PMID: 32948219. PMC7501648
- 5.Hein, M., Ji, G., Tidwell, D., D'Souza, P., Kiritoshi, T., Yakhnitsa, V., Navratilova, E., Porreca, F., Neugebauer, V.Kappa opioid receptor activation in the amygdala disinhibits CRF neurons to generate pain-like behaviors. Neuropharmacology185: 108456 (13 pp.), 2021. PMID: 33444637. PMC7887082.
- 6.Mazzitelli, M., Marshall, K., Pham, A., Ji, G., Neugebauer, V. Optogenetic manipulations of amygdala neurons modulate spinal nociceptive processing and behavior under normal conditions and in an arthritis pain model. Front. Pharmacol. 12: 668337 (18 pp.), 2021.PMID: 34113253. PMC8185300.
- 7.Gandhi, P.J., Gawande, D.Y., Shelkar, G.P., Gakare, S.G., Kiritoshi, T., Ji, G., Misra, B., Pavuluri, R., Liu, J., Neugebauer, V., Dravid, S. Dysfunction of glutamate delta-1 receptor-cerebellin 1 trans-synaptic

signaling in the central amygdala in chronic pain. *Cells*10: 2644 (25 pages), 2021. PMID: 34685624. PMC8534524

8.Presto, P., Ji, G., Junell, R., Griffin, Z., Neugebauer, V.Fear extinction based inter-individual and sex differences in pain-related vocalizations and anxiety-like behaviors but not nocifensive reflexes. *Brain Sci*.11: 1339 (19 pp.), 2021. PMID: 34679403. PMC8533751.

9.Shen, C.-L., Wang, R., Ji, G., Elmassry, M.M., Zabet-Moghaddam, M., Vellers, H., Hamood, A.N., Gong, X., Mirzaei, P., Sang, S., Neugebauer, V. Dietary supplementation of gingerols-and shogaols-enriched ginger root extract attenuate pain-associated behaviors while modulating gut microbiota and metabolites in rats with spinal nerve ligation. *J. Nutr. Biochem.* 100: 108904, 2021.

10.Shen, C.-L., Watkins, B., Kahathuduwa, C., Chyu, M.-C., Zabet, M., Elmassry, M.M., Luk, H.-Y., Brismee, J.-M., Knox, A., Lee, J., Zumwalt, M., Wang, R., Wager, T.D., Neugebauer, V.Tai Chi improves brain functional connectivity and plasma lysophosphatidylcholines in postmenopausal women with knee osteoarthritis: an exploratory pilot study. *Front. Med.*(in press).

11.Ashraf-Uz-Zaman, M., Ji, G., Tidwell, D., Yin, L., Thakolwiboon, S., Neugebauer, V., Pan, J., Shahi, S., Sajib, M.S., Trippier, P., Mikelis, C., Avila, M., German, N., Evaluation of Urea-Based Inhibitors of the Dopamine Transporter Using the Experimental Autoimmune Encephalomyelitis Model of Multiple Sclerosis. *ACS Chemical Neuroscience*(accepted).

Reviews/Editorials

1.Neugebauer, V. Serotonin –Pain Modulation. In: Mueller, C.P., Cunningham, K.A. (Eds.) *Handbook of the Behavioral Neurobiology of Serotonin*, 2ndEdition, *Handbook of Behavioral Neurosciences*, 31: 309-320, 2020. ISBN: 9780444641250.

2.Neugebauer, V.Amygdala Physiology in Pain. In: Rosenkranz, J.A., Urban, J.H. (Eds.) *Handbook of Amygdala Structure and Function*, *Handb. Behav. Neurosci.*, 26: 101-113, 2020.ISBN: 9780128151341. PMC8059430.

3.Mazzitelli, M., Neugebauer V.mGlu3 –New hope for pharmacotherapy of schizophrenia. *Biol. Psychiatry* 90 356–358, 2021. PMID: 34446153

Meeting abstracts(* denotes peer review)

1.* Shen, C.L., Wang, R.,Ji, G., Vellers, H., Sang, S., Neugebauer, V. Dietary supplementation of gingerols-and shogaols-enriched ginger root extracts attenuate pain-associated behaviors in animals with spinal nerve ligation. *Curr. Dev. Nutr.* 4, Suppl. 2: 74. DOI:10.1093/cdn/nzaa040_074, 2020.

2.* Elmassry, M.M., Wang, R., Hamood, A.N., Neugebauer, V., Shen, C.L. Two isomers of ginger root extracts modify composition and function of gut microbiota in rats treated with neuropathic pain. *Curr. Dev. Nutr.* 4, Suppl. 2: 394. DOI:10.1093/cdn/nzaa045_027, 2020.

3.* Zabet-Moghaddam, M., Gong, X., Mirzaei, P., Wang, R., Neugebauer, V., Shen, C.L. Differential impacts of gingerols-and shogaols-enriched ginger root extracts on fecal metabolites in rats with neuropathic pain. *Curr. Dev. Nutr.* 4,Suppl. 2: 494. DOI:10.1093/cdn/nzaa045_127, 2020.

4.* Phelps, C.E., Navratilova, E., Neugebauer, V.,Porreca, F. Kappa Opioid Receptor Activation in the Right Central Nucleus of the Amygdala is Sufficient to Induce Conditioned Place Aversion and Periorbital Allodynia in the Absence of Injury. 18th World Congr. Pain, IASP, 2020.

5.* Wang, R., Ji, G., Dufour, J.M., Kaur, G., Miranda, J.M., Washburn, R.L., Hibler, T., Luk, H.-Y., Neugebauer, V.,

- Shen, C.-L. Ginger Mitigates Pain Behaviors and Improves Colon Health in Obese Rats with Diabetic Neuropathy. 38th Annual Meeting of The Obesity Society, Obesity 28: 186, Suppl. 2, Abstract 484, 2020.
6. Fang, C.Y., Sherali, S., Zabet, M., Gong, X., Mirzaei, P., Wang, R., Neugebauer, V., Shen, C.-L. The effects of ginger root extract on gut microbiota-derived metabolites in animals with neuropathic pain. 3rd Integrative Medicine Symposium and Annual LWBIWH Symposium, 2020.
7. Shen, C.-L., Wang, R., Ji, G., Vellers, H., Sang, S., Neugebauer, V. Dietary supplementation of gingerols- and shogaols-enriched ginger root extracts attenuate pain-associated behaviors in animals with spinal nerve ligation. 3rd Integrative Medicine Symposium and Annual LWBIWH Symposium, 2020. [Merit Award Winner].
8. Elmassry, M.M., Wang, R., Hamood, A.N., Neugebauer, V., Shen, C.-L. Two isomers of ginger root extracts modify composition and function of gut microbiota in rats treated with neuropathic pain. 3rd Integrative Medicine Symposium and Annual LWBIWH Symposium, 2020.
- 9.* Ashraf-Uz-Zaman, M., Ji, G., Alvina, K., Sajib, M.S., Mikelis, C., Avila, M., Neugebauer, V., German, N.A. Discovery and structure-activity relationship study of novel series of mono-amine transporter inhibitors for the treatment of neurodegenerative diseases. FASEB Journal 34, S1: R3221, 2020.
10. Schuck, A., Tompkins, C., Neugebauer, V., Shen, C.-L. Potential therapeutic benefits of capsaicin, EGCG and green tea extract, curcumin, and ginger on fibromyalgia: A review of the literature. 33rd Annual Student Research Week, p. 103, 2021.
11. Tompkins, C., Schuck, A., Neugebauer, V., Shen, C.-L. Analgesic Effects of GSPE, Soy and Genistein, Naringin, and Omega-3 PUFA and Their Possible Molecular Mechanisms in Treating Fibromyalgia. 33rd Annual Student Research Week, p. 108, 2021.
12. Castro, L.F., Castro, M., Neugebauer, V., Shen, C.-L. Antiallodynic and Antihyperalgesic Effects of Ginger, Capsaicin, Naringin, Soy, Resveratrol and Molecular Mechanism in the Treatment of Neuropathic Pain: A Review of the Literature. 33rd Annual Student Research Week, p. 119, 2021.
13. Castro, L.F., Castro, M., Neugebauer, V., Shen, C.-L. Potential effects of EGCG, Curcumin, Omega-3, and Lycopene in the Treatment of Neuropathic Pain and Proposed Molecular Mechanisms: A Review of the Literature. 33rd Annual Student Research Week, p. 51, 2021.
14. Mazzitelli, M., Yakhnitsa, V., Neugebauer, V. Optogenetic manipulation of amygdala CRF neurons modulates pain-related behaviors in a rodent model of neuropathic pain. 33rd Annual Student Research Week, p. 38, 2021.
15. Presto, P., Ponomarev, I., Neugebauer, V. Sex differences in brain neuroimmune signaling related to pain: Molecular and behavioral effects. 33rd Annual Student Research Week, p. 29, 2021.
- 16.* Shen, C.-L., Kahathuduwa, C., Chyu, M.-C., Brismée, J.-M., Knox, A., Wang, R., Luk, H.-Y., Appell, C., O'Boyle, M., Zumwalt, M., Watkins, B., Neugebauer, V. Neurobiological mechanisms of pain modulation from Tai-Chi: a single-arm pre/post pilot study. Integrative Medicine & Health Symposium. ID #27, 2021.
- 17.* Prater, C.M., Kisby, B., Neugebauer, V., Ponomarev, I. TLR3 activation increases alcohol consumption and excitatory signaling in the infralimbic prefrontal cortex. 44th Annual RSA Scientific Meeting. Alcohol.: Clin. Exp. Res. 45: 209A, Suppl. 1, 571, 2021.
- 18.* Shen, C.-L., Wang, R., Elmassry, M.M., Neugebauer, V., Hamood, A.N. Dietary ginger root extract supplementation mitigated diabetic peripheral neuropathy in streptozotocin-induced diabetic rats by modulating gut microbiota. Curr. Dev. Nutr. 5, Suppl. 2:1179. DOI:10.1093/cdn/nzab054_034, 2021.
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21. Presto, P., Ponomarev, I., Neugebauer, V. Sex differences in brain neuroimmune signaling related to pain: Molecular and behavioral outcomes. 5th Annual CTNT Symposium, p. 21, 2021.
22. Ashraf-Uz-Zaman, MD, Shahi, S., Ji, G., Tidwell, D., Yin, L., Thakolwiboon, S., Pan, J., Trippier, P.C., Avila, M., Neugebauer, V., German, N.A., Urea-based dopamine transporter inhibitors as a therapeutic option for neurodegenerative diseases. 5th Annual CTNT Symposium, p. 21, 2021.
23. Mazzitelli, M., Yakhnitsa, V., Neugebauer, V. Optogenetic stimulation of CRF neurons in the amygdala modulates pain-related behaviors in neuropathic pain model. 5th Annual CTNT Symposium, p. 22, 2021.
24. *Avila, M., Thakolwiboon, S., Rice, E. M., Sohn, G., Neugebauer, V., DeToledo, J. Gender Differences in Multiple Sclerosis-Related Pain. *Mult. Scler. J.* 27: 121, Suppl. 1, P224, 2021.
25. Presto, P., Ji, G., Junell, R., Griffin, Z., Neugebauer, V. Inter-individual and sex differences in pain-related vocalizations and anxiety-like behaviors. Annual LWBIWH Symposium, 2021.
26. *Presto, P., Neugebauer, V. Calcitonin gene-related peptide 1 receptor blockade in the amygdala inhibits pain-related behaviors and neuronal activity in a chronic neuropathic pain model. *Soc. Neurosci. Abstr.* 50: P387.01, 2021.
27. *Junell, R., Presto, P., Ponomarev, I., Neugebauer, V. Subacute silencing of HMGB1 in the amygdala inhibits pain-related behaviors in a rat model of chronic neuropathic pain. *Soc. Neurosci. Abstr.* 50: P387.02, 2021.
28. *Neugebauer, V., Mazzitelli, M., Yakhnitsa, V. Optogenetic silencing of amygdala CRF neurons inhibits anxiety-like behaviors at the acute stage of a rat neuropathic pain model. *Soc. Neurosci. Abstr.* 50: P387.03, 2021.
29. *Kiritoshi, T., Neugebauer, V. Differential pain-related changes in PB- and PAG-projecting amygdala CRF neurons in a neuropathic pain model. *Soc. Neurosci. Abstr.* 50: P387.04, 2021.
30. *Ji, G., Kiritoshi, T., Yakhnitsa, V., Navratilova, E., Porreca, F., Neugebauer, V. Opposing effects of kappa and mu opioid receptors on amygdala CRF neuronal activity in a rat neuropathic pain model. *Soc. Neurosci. Abstr.* 50: P387.06, 2021.
31. *Griffin, Z., Yakhnitsa, V., Hein, M., Navratilova, E., Porreca, F., Neugebauer, V. Kappa opioid receptor blockade reduces pain-like behaviors and restores inhibition of amygdala CRF neurons in a functional pain model in rats. *Soc. Neurosci. Abstr.* 50: P387.07, 2021.
32. *Yakhnitsa, V., Thompson, J.M., Neugebauer, V., Pruitt, K. SK2-channel dysfunction in central nucleus of amygdala in chronic neuropathic pain. Evidence for epigenetic modifications. *Soc. Neurosci. Abstr.* 50: P387.08, 2021.

News Releases -Educational Activities for the Lay Public

1. "TTUHSC Garrison Institute on Aging Receives Award. Texas Health and Human Services Announces Innovators in Aging Award Recipients". In: TTUHSC Statline Daily Dose, by Suzanna Cisneros, September 3, 2020; <https://dailydose.ttuhs.edu/2020/september/lubbock-garrison-institute-on-aging-recieves-award.aspx>.

2.Vetter I: Faculty Opinions Recommendation of [Chen Y et al., Sci Transl Med 2020 12(529)]. In Faculty Opinions, 26 Feb 2020; 10.3410/f.737321616.793571434. <https://f1000.com/prime/737321616>.

Presentations

Invited Talks

10-04-2021“Differential roles of mGluR2 and mGluR3 in the amygdala in pain modulation”. 10thmGlu Meeting, Taormina, Italy.

05-12-2021“*The Frontiers Project –Garrison Institute on Aging*”. Health Disparities, Rural Communities, Outreach & Engaged Scholarship, 6thAnnual Obesity Research Institute (ORI) Meeting & Competition, TTU, Lubbock, TX.

Posters

Grant Awards

1. R01 NS120395 –NIH/NINDS Impact score: 10, Percentile: 1.00. 8/01/21 –07/31/26“*A prolactin-mediated neuroendocrine link between stress-induced latent sensitizationand female-selective pain*” The goal of this study is to identify a previously unknown stress-related neuroendocrine link between hypothalamic kappa opioid receptors and prolactin/prolactin receptor signaling in nociceptors as a basis for female selective pain syndromes. PI (Contact), Frank Porreca (University of Arizona) PI, Volker Neugebauer Total costs: \$2,297,350 (TTUHSC subaward, \$921,815)
2. COHS AD Seed Grant -TTU03/01/21 –12/31/21“*Global gene expression profiling of high fat and fish oil effects in a mouse model of Alzheimer’s disease*” The goal of this study is to test if fish oil has protective effects in an Alzheimer’s disease mouse model by reducing brain, adipose tissue and systemic inflammation and decreasing amyloid beta accumulation. PI (Contact), Naima Moustaid-Moussa (TTU)PI, Volker Neugebauer Total costs: \$10,000
3. 2021-67017-34026 -USDA/NIFA “*Ginger root extract for neuropathic pain*” 01/01/21 -12/31/23The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals. PI (Contact), Chwan-Li (Leslie) ShenPI, Volker Neugebauer Total costs: \$500,000
4. R01 NS118731 –NIH/NINDS08/01/20 –07/31/25“*Trans-Synaptic Signaling Complex in Amygdala Pain Mechanisms*” The goal of this project is to determine the role of the trans-synaptic signaling complex centered on cerebellin 1 and glutamate delta 1 receptor in the regulation of amygdala plasticity and pain mechanisms.PI (Contact), Shashank Dravid (Creighton University)PI, Volker Neugebauer Total costs: \$2,674,615 (TTUHSC subaward, \$733,740)

Grant Applications

Pending (NoA being prepared) R01 NS038261 -NIH/NINDS Impact score: 25, Percentile 812-01-21 - 11/30/26“*Amygdala Pain Mechanisms*” The overall goal of this project funded since 1999 is to determine role and mechanisms of amygdala plasticity in pain and its interactions with cortical-cognitive control centers, using electrophysiology, pharmacology, behavioral assays, gene transfer and optogenetic strategies. The focus of this project period is on neuroimmune signaling as a mechanism of neuroplasticity and neuropathic pain.PI, Volker Neugebauer, MPI, Igor Ponomarev Total costs: \$3,342,950

12/07/2021Texas Alzheimer's Research & Care Consortium (TARCC), Volker Neugebauer (PI Subcontract) Neuro-Cognitive Outcomes and Vulnerabilities in the time of Infectious Disease pandemics (Neuro-COVID):TARCC Collaborative for patient and caregiver research

12/06/2021 AHA, Volker Neugebauer (Consultant) Characterizing vascular function in long sleepers

10/25/2021 BrightFocus Foundation, Volker Neugebauer (Key person) Neurexin-cerebellin-GluD1/2 complexes early in Alzheimer's Disease: Trans-synaptic signaling vulnerabilities in hippocampal novelty detection circuits

09/07/2021 NINDS R01, Volker Neugebauer (PI Subcontract) Neuroendocrine Consequences of Neonatal Medical Trauma

07/07/2021 NIA R21, Volker Neugebauer (PI Subcontract) Tetrode biosensor probes for real-time detections of biomarker dysregulation in Alzheimer's disease

04/06/2021 NINDS R01, Volker Neugebauer (PI) Amygdala Pain Mechanisms

Oldewage, Wilna

Publications

Published chapters in books and books:

CHALWE JM, GROBLER C & OLDEWAGE-THERON W. 2021. Genetic Polymorphisms and their Interactions with the Risk Factors of Cardiovascular Diseases: Review Chapter. In: Chahine E (ed). Cardiovascular Risk Factors. ISBN 978--1-83968-709-9(online). <https://www.intechopen.com/online-first/78930>

OLDEWAGE-THERON W & GROBLER CG. 2021. Double Burden of Poverty and Cardiovascular Disease Risk among Low-Resource Communities in South Africa. In Monyeki KD & Kemper, HCG. Eds. Lifestyle and Epidemiology -Poverty and Cardiovascular Diseases a Double Burden in African Populations. ISBN 978-1-83962-737-8(online) and 978-1-83962-736-1 (printed). <https://www.intechopen.com/chapters/75247>.

Published manuscripts in scientific peer-reviewed journals:

GROBLER CJ, OLDEWAGE-THERON W & CHALWE J. 2021. The effect of vitamins B12, B6 and folate supplementation on homocysteine metabolism in a low-income, urbanised, black elderly community in South Africa. South African Journal of Clinical Nutrition, 34, pages 1-6. Available: <https://doi.org/10.1080.16070658.2021.2003148>.

MOYO G, MONTENEGRO-MONTENEGRO E, STICKLEY Z, EGAL A & OLDEWAGE-THERON W. 2021. A structural equation modelling approach to examine the relationship between socioeconomic status, diet quality and dyslipidaemia in South African children and adolescents, 6-18 years. International Journal of Environmental Research and Public Health, 18(23): 12826. <https://doi.org/10.3390/ijerph182312825>.

SAHA S, BEHNKE A, OLDEWAGE-THERON W, MUBTASIM N & MILLER M. 2021. Prevalence and factors associated with food insecurity among older adults in sub-Saharan Africa: A systematic review. Journal of Nutrition in Gerontology and Geriatrics, 40(4): 171-196. <https://www.tandfonline.com/eprint/47TH2B2FB8CDYR86SIEY/full?target=10.1080/21551197.2021.1988027>

RANA ZH, REED DB, OLDEWAGE-THERON W, LYFORD C, COLWELL M & DAWSON JA. 2021. Overweight or obesity onset and past attempts to lose/manage weight: A qualitative study. Obesity, 1:136-143. <https://www.mdpi.com/2673-4168/1/3/12>

SAHA S, MUKHERJEE U, MILLER M, PENG LL, NAPIER C, GROBBELAAR H & OLDEWAGE-THERON W. 2021. Food and beverages promoting elderly health: six food-based dietary guidelines to plan good mixed meals elderly South Africans. South African Journal of Clinical Nutrition, 34(sup 1): S51-S63. <https://doi.org/10.1080/16070658.2021.1956232>

- MILLER M, OLDEWAGE-THERON W & NAPIER C. 2021. Eat clean and safe food: a food-based-dietary guideline for the elderly in South Africa. South African Journal of Clinical Nutrition, 34(sup 1): S41-S50. <https://doi.org/10.1080/16070658.2021.1947040>
- JAMSHIDI-NAEINI Y, MOYO G, NAPIER C & OLDEWAGE-THERON W. 2021. Food and beverages undermining elderly health: three food-based-dietary guidelines to avoid or delay chronic diseases of lifestyle among the elderly in South Africa. South African Journal of Clinical Nutrition, 34(sup 1): S27-S40. <https://doi.org/10.1080/16070658.2021.1947039>
- SAHA S, OLDEWAGE-THERON W & NAPIER C. 2021. Be active: a food-based-dietary guideline for the elderly in South Africa. South African Journal of Clinical Nutrition, 34(sup 1): S21-S26. <https://doi.org/10.1080/16070658.2021.1947038>
- THEOPHILUS R, NAPIER C & OLDEWAGE-THERON W. 2021. If you drink alcohol, drink sensibly: a food-based-dietary guideline for the elderly in South Africa. South African Journal of Clinical Nutrition, 34(sup 1): S15-S20. <https://doi.org/10.1080/16070658.2021.1954351>
- MUKHERJEE U, NAPIER C & OLDEWAGE-THERON W. 2021. Drink clean, safe water and/or other fluids through-out the day even if you do not feel thirsty: a food-based-dietary guideline for the elderly in South Africa. South African Journal of Clinical Nutrition, 34(sup 1): S9-S14. <https://doi.org/10.1080/16070658.2021.1947037>
- NAPIER C, GROBBELAAR H & OLDEWAGE-THERON W. 2021. An introduction to the food-based-dietary guidelines for the elderly in South Africa. South African Journal of Clinical Nutrition, 34(sup 1): S1-S8. <https://doi.org/10.1080/16070658.2021.1950376>
- MOYO G, THOMAS-JACKSON S, CHILDRESS A, DAWSON J, THOMPSON L & OLDEWAGE-THERON W. Chrononutrition and breast milk: a review of the circadian variation of hormones present in human milk. Clinical Lactation, 12(3): 114-123.
- CHALWE J, MUKHERJEE U, GROBLER C, MBABARA SH & OLDEWAGE-THERON W. 2021. Association between hypertension, obesity and dietary intake in post-menopausal women from rural Zambian communities. Health SA Gesondheid, 26(0), a1496. <https://doi.org/10.4102/hsaq.v26i0.1496>.
- MORALES S, EGAL AA & OLDEWAGE-THERON W. 2021. Do smallholder farmers need nutrition education? A case study from KwaZulu Natal, South Africa. Journal of International Agricultural and Extension Education, 28(3): 14-27.
- MOYO G, THOMAS-JACKSON S, CHILDRESS A, DAWSON J, THOMPSON L & OLDEWAGE-THERON W. 2021. Chrononutrition and breast milk: A review of circadian variation in breast milk nutrient composition. Clinical Lactation, 12(2): 74-82. <http://dx.doi.org/10.1891/CLINLACT-D-20-00027>
- PENG LL CHILDRESS A, DAWSON J, JAIE TM, PUNYANUNT-CARTER NM & OLDEWAGE-THERON W. 2021. Food safety education for elementary school students worldwide. International Journal of School Education, 8(1). 13 pages. https://intjsh.sums.ac.ir/article_47338_58211b25f356d504510c96b61c59506c.pdf
- MORALES S, BRASHEARS MT, BOREN-ALPIZAR A, MEYERS C & OLDEWAGE-THERON W. 2021. Gatekeepers of food and nutritional security projects in South Africa. The Journal of Agricultural Education and Extension, 19 pages. <https://www.tandfonline.com/doi/pdf/10.1080/1389224X.2021.1873154?needAccess=true>
- OLDEWAGE-THERON W & EGAL AA. 2021. Is food insecurity a problem among the elderly in Sharpeville, South Africa? Food Security, 13: 71-81. <https://doi.org/10.1007/s12571-020-01125-9>

Trade publications:

OLDEWAGE-THERON W, MUKHERJEE U & IBIYEMI T. 2021. The health benefits and uses of soya globally. Oilseeds Focus, 7(4): 42-45.

Abstracts published as part of conference proceedings for presentations presented by co-authors:

MOYO G, IBIYEMI T, LEE H, PENG LL & OLDEWAGE-THERON W. 2021. The association between COVID-19-related employment challenges and students' dietary intake in the United States. International Congress of Dietetics, 1-3 September 2021, Abstract Book, South African Journal of Clinical Nutrition,34(3): A1-A203. <https://doi.org/10.1080/16070658.2021.1968126>

OLDEWAGE-THERON W & GROBLER C. 2021. The double burden of poverty and cardiovascular disease risk among adults in South Africa. Journal of the American Academy of Nutrition and Dietetics,121(9)(Suppl 1):A97.

OLDEWAGE-THERON W & GROBLER C. 2021. Vitamin D status of a low-income elderly community in South Africa. Current Developments in Nutrition,5(Supplement 2):172.https://academic.oup.com/cdn/article/5/Supplement_2/172/6293482

Presentations

Particulars of Congress Participation:(Underlined author is the presenter)

9thFree State Provincial Health Research Day 04 November 2021, South AfricaG MOYO, AA EGAL & WH OLDEWAGE-THERON. Prevalence of the double burden of malnutrition in children living in the Eastern Cape, South Africa (poster).

Soy for Human Health symposium (virtual) 16 September 2021, South Africa:W OLDEWAGE-THERON. Uses of soy foods globally (invited speaker).

Academy of Nutrition and Dietetics Food & Nutrition Conference 16-19 October 2021 (virtual):OLDEWAGE-THERON W& GROBLER CG.The double burden of poverty and cardiovascular risk among adults in South Africa (poster).

Nutrition Live online 7-10 June 2021:OLDEWAGE-THERON W& GROBLER CG. Vitamin D status of a low-income elderly community in South Africa(poster).

International Congress of Dietetics (ICD)2021 Virtual Congress 1-3 September 2021:

MOYO G,IBIYEMI T, LEE H, PENG LL & OLDEWAGE-THERON W. The association between coronavirus (COVID-19)-related employment challenges and students' dietary intake in the United States (poster).

Posters-none

Grant Awards-none

Grant Applications-none

Palmer, Ty

Publications

Palmer, T. B., Blinch, J., Farrow, A. C.*; Agu-Udemba, C. C.†, Mitchell, E. A.†(2021). Utility of peak torque and rate of torque development characteristics to identify walking performance ability in older women. Journal of Musculoskeletal and Neuronal Interactions, 21(4), 455-463.

Farrow, A. C.*; Palmer, T. B. (2021). Age-related differences in hip flexion maximal and rapid strength and rectus femoris muscle size and composition. Journal of Applied Biomechanics, 37(4), 311-319.

Akehi, K., Conchola, E. C., Palmer, T. B., Thompson, B. J. (2021). Rapid muscle activation changes across a competitive collegiate female soccer season. Journal of Musculoskeletal and Neuronal Interactions, 21(2), 206-214.

Note:* indicates graduate student author; † indicates undergraduate student author.

Presentations

Online Poster/Abstract

Palmer, T. B., Blinch, J., Farrow, A. C.*; Agu-Udemba, C. C.†, Mitchell, E. A.†, ACSM National Conference, ACSM, Washington, DC, "Utility of strength-based torque characteristics to distinguish between older women of different walking performance abilities," National, peer-reviewed/refereed, published in proceedings. (June 2021).

Farrow, A. C.*; Agu-Udemba, C. C.†, Mitchell, E. A.†, Palmer, T. B., ACSM National Conference, ACSM, Washington, DC, "Relationships between functional performance and quadriceps muscle size and quality in healthy older women," National, peer-reviewed/refereed, published in proceedings. (June 2021).

Note:* indicates graduate student author; † indicates undergraduate student author.

Posters-see above

Grant Awards

2021 Utility of rate of torque development characteristics from a novel strength testing device to differentiate between starters and non-starters in Division II women's soccer Mid-America Athletic Trainers Association \$2,000. Akehi, K. (Lead Principal Investigator), Palmer, T. (Co-Principal Investigator) 95%

Grant Applications-none

Park, Oak Hee

Publications: none

Presentations: none

Posters: none

Grant Awards

1. United Sorghum Check off Program (09/2021-08/2023). Sorghum: Opportunities as a Sustainable Crop for Human Consumption in the U.S.: PI:60% \$150,000.

2. U.S. Department of Agriculture (03/2021- 02/2026). Nutrition Bench-to-Community Engaged Scholars in Texas (NutritionBEST) REEU Program: Co-PI:15%. \$500,000.

Grant Applications: none

Phy, Jennifer

Presentations

Phy JL. What is PCOS? PCOS Awareness Association, PCOS Awareness Association, September 19, 2021.

Phy JL. Low Starch Diet Results in Rapid Conception in Obese Infertile Women with Poly Cystic Ovary Syndrome (PCOS) 6th International Conference on Obesity and Chronic Diseases, June 21, 2021. (Peer Reviewed)

Phy JL. The Horizon of Fertility in the Cancer Patient 4th Annual West Texas Breast Disease Symposium, April 24, 2021. (Peer Reviewed)

Grant award

Jennifer Phy (Ob/Gyn, Lubbock). Research Grant: Innovative Treatment of Polycystic Ovary Syndrome (PCOS). Funded by NSF. \$50,000 for 6 months.

Rahman, Rakhshanda

Publications:

- Singh SP, Lee J, Bose C, Li H, Yuan Y-C, Hindle A, Singhal SS, Kopel J, Palade PT, Jones C, Rahman RL, Awasthi S. Haploinsufficiency Interactions between RALBP1 and p53 in ERBB2 and PyVT Models of Mouse Mammary Carcinogenesis. *Cancers*. 2021;13(13):3329. PubMed PMID: doi:10.3390/cancers13133329.
- Ugras SK, Layeequr Rahman R. Hormone replacement therapy after breast cancer: Yes, No or maybe? *Mol Cell Endocrinol*. 2021 Apr 5;525:111180. doi: 10.1016/j.mce.2021.111180. Epub 2021 Jan 26. PMID: 33508379.
- Habrawi Z, Melkus MW, Khan S, Henderson J, Brandi L, Chu V, Layeequr Rahman R. Cryoablation: A promising non-operative therapy for low-risk breast cancer. *Am J Surg*. 2021 Jan;221(1):127-133. doi: 10.1016/j.amjsurg.2020.07.028. Epub 2020 Aug 1. PMID: 32788081.
- Jahan N, Jones C, Layeequr Rahman R. Endocrine Prevention of Breast Cancer. *Mol & Cell Endo*. June 2021, 530. <https://doi.org/10.1016/j.mce.2021.111284>.
- Jahan N, Jones C, Layeequr Rahman R. Androgen receptor expression in breast cancer: implications on prognosis and treatment - a brief review. *Mol Cell Endocrinol*. 2021 Jul 1; 531:111324. doi: 10.1016/j.mce.2021.111324. Epub 2021 May
- Sharma M, Castro Piedras I, Rasha R, Ramachandran S, Sennoune S, Furr K, Almodovar S, Ganapathy V, Grisham M,
- Layeequr Rahman R, Pruitt K,. Dishevelled-1 DIX and PDZ domain lysine residues regulate oncogenic Wnt signaling. *Oncotarget*. (Accepted).

Presentations

Posters

Grant Awards:

- Cancer Prevention and Research Institute of Texas (PP200013). PI. Rahman. \$999,672. 3/1/2020-3/28/2023.
- Cancer Prevention and Research Institute of Texas (PP190021). PI. Rahman. \$2,430,998. 3/1/2019-2/28/2022.
- Cancer Prevention and Research Institute of Texas (PP190658). PI. Rahman. \$657,222. 8/31/2019-8/30/2021.

Grant Applications

Shen, Chwan-Li (Leslie)

Publications

1. Shen CL, Watkins BA, Kahathuduwa C, Chyu MC, Zabet M, Elmassry MM, Luk HY, Brismee JM, Knox A, Lee J, Zumwalt M, Wang R, Wager TD, Neugebauer V. Tai Chi improves brain functional connectivity and plasma lysophosphatidylcholines in postmenopausal women with knee osteoarthritis: an exploratory pilot study. *Frontier in Medicine* 2022 Jan 3;8:775344.
2. Dhanasekara CS, Nelson A, Spradley M, Wynn A, CR, Shen C, Kahathuduwa C. Effects of Consumption of Coconut Oil or Coconut on Glycemic Control and Insulin Sensitivity: A Systematic Review and Meta-Analysis of Interventional Trials. *Nutrition, Metabolism and Cardiovascular Disease* (accepted, in press)
3. Shen CL, Mo H, Dunn DM, Watkins BA. Tocotrienol Supplementation Led to Higher Serum Levels of Lysophospholipids but Lower Acylcarnitines in Postmenopausal Women: A Randomized Double-Blinded Placebo-Controlled Clinical Trial. *Frontier in Nutrition* 2021 Dec 24;8:766711. doi: 10.3389/fnut.2021.766711. PMID: 35004805; PMCID: PMC8740329.
4. Shen CL, Wang R, Ji G, Elmassry MM, Zabet-Moghaddam M, Vellers H, Hamood AN, Gong X, Mirzaei P, Sang S, Neugebauer V. Dietary supplementation of gingerols-and shogaols-enriched ginger root extract attenuate pain-associated behaviors while modulating gut microbiota and metabolites in rats with spinal nerve ligation. *Journal of Nutritional Biochemistry, Special Issues: Precision nutrition –individual nutrient needs for optimal health throughout the lifespan.* 2021. *J Nutr Biochem.* 2021 Nov 6;100:108904. doi: 10.1016/j.jnutbio.2021.108904.
5. Chung E, Elmassry MM, Cao JJ, Kaur G, Dufour JM, Hamood AN, Shen CL. Beneficial effect of dietary geranylgeraniol on glucose homeostasis and bone microstructure in obese mice is associated with suppression of proinflammation and modification of gut microbiome. *Nutrition Research* 2021;93:27-37.
6. Shen CL, Ramamoorthy S, Kaur G, Dufour JM, Wang R, Mo H, Watkins BA. Dietary annatto-extracted tocotrienol reduces inflammation and oxidative stress, and improves macronutrient metabolism in obese mice: a metabolic profiling study. *Nutrients* 2021; 13(4):1267
7. Shen CL. Clinical trials of FDA IND natural bioactive components for bone health. *SOCRA SOURCE, Journal for Clinical Research Excellence.* 2021;2:53-60.

Presentations

Meeting abstracts (* denotes peer review) Oral/poster presentation

1. Schuck A, Tompkins C, Neugebauer V, Shen CL. Potential therapeutic benefits of capsaicin, EGCG and green tea extract, curcumin, and ginger on fibromyalgia: A review of the literature. 33rd Annual Student Research Week, p. 103, 2021.

2. Tompkins C, Schuck A, Neugebauer V, Shen CL. Analgesic Effects of GSPE, Soy and Genistein, Naringin, and Omega-3 PUFA and Their Possible Molecular Mechanisms in Treating Fibromyalgia. 33rd Annual Student Research Week, p. 108, 2021.
3. Castro LF, Castro M, Neugebauer V, Shen CL. Antiallodynic and Antihyperalgesic Effects of Ginger, Capsaicin, Naringin, Soy, Resveratrol and Molecular Mechanism in the Treatment of Neuropathic Pain: A Review of the Literature. 33rd Annual Student Research Week, p. 119, 2021.
4. Castro M, Castro LF, Neugebauer V, Shen CL. Potential effects of EGCG, Curcumin, Omega-3, and Lycopene in the Treatment of Neuropathic Pain and Proposed Molecular Mechanisms: A Review of the Literature. 33rd Annual Student Research Week, p. 51, 2021.
5. *Shen CL, Kahathuduwa C, Chyu MC, Brismée JM, Knox A, Wang R, Luk HY, Appell C, O'Boyle M, Zumwalt M, Watkins B, Neugebauer V. Neurobiological mechanisms of pain modulation from Tai-Chi: a single-arm pre/post pilot study. Integrative Medicine & Health Symposium. ID #27, 2021.
6. * Shen CL, Wang R, Elmassry MM, Neugebauer V, Hamood AN. Dietary ginger root extract supplementation mitigated diabetic peripheral neuropathy in streptozotocin-induced diabetic rats by modulating gut microbiota. *Curr. Dev. Nutr.* 5, Suppl. 2:1179. DOI:10.1093/cdn/nzab054_034, 2021.
7. Ward H, Chin K, Dhanasekara C, Dunn D, Shen CL, Kahathuduwa C. Post-intervention Effects of Tai Chi and Qi Gong on Anxiety Scores: A Systematic Review and Meta-Analysis. 33rd Annual Student Research Week, p. 112, 2021.
8. Chin K, Ward H, Dhanasekara C, Dunn D, Shen CL, Kahathuduwa C. Post-Intervention Effects of Tai Chi and Qi Gong on Depression Scores: A Systematic Review and Meta-Analysis. 33rd Annual Student Research Week. p. 53, 2021.
9. De Vega R, Payberah D, Kahathuduwa C, Shen CL. Potential Health Effects of Bioactive Compounds on Depression: A Review of the Literature. 33rd Annual Student Research Week. p. 60, 2021
10. Payberah D, Chyu J, Dhanasekara C, Shen CL, Kahathuduwa C. The Effectiveness of Botulinum Toxin in the Prevention and Treatment of Tension-Type Headaches: A Systematic Review and Meta-Analysis. 33rd Annual Student Research Week. p. 90, 2021
11. Schoeberl M, Mikkelsen M, Urias E, Scott C, Lee J, Shen CL, Al-Rahawan MM. Vitamin D levels in pediatric patients undergoing chemotherapy. 33rd Annual Student Research Week. p. 102, 2021
12. Wynn A, Nelson A, Spradley M, Dhanasekara C, Robohm-Leavitt C, Shen CL, Kahathuduwa C. Effects of Consumption of Coconut Oil or Coconut on Glycemic Control and Insulin Sensitivity: A Systematic Review and Meta-Analysis of Interventional Trials. 33rd Annual Student Research Week. p. 113, 2021
13. Eboh T, St-John J, Shen CL, Dennis J. Do Demographic or Lifestyle Factors Explain the Differences in BMI and Obesity between US-born and Foreign-born Africans? 33rd Annual Student Research Week. p. 62, 2021
14. Chen J, Shen CL, St-John J, Dennis J. Patient Adherence to Physician Advised Lifestyle Behavior Changes Among Adults with Musculoskeletal Conditions from 2017 NHIS data. 33rd Annual Student Research Week. p. 52, 2021
15. Turner J, St. John J, Dennis J, Shen CL. Applying Diffusion of Innovation to the Texas Mother Friendly Worksite Program: Does early adoption lead to lower rates of infant mortality? 33rd Annual Student Research Week. p. 110, 2021
16. Jiwan NC, Appell C, Wang R, Shen CL, Luk H-Y. Geranylgeraniol increases autophagy and mitophagy gene expression in soleus of rats with diabetes. *International Journal of Exercise Science Conference Proceedings*. 2021, 2(13). Article 28.

17.Appell CR, Nigel C. Jiwan NC, Wang R, Shen CL, Luk H-Y. Ginger Root Extract Increases Mitochondrial Fission and Mitophagy in Diabetes Mellitus Rats.International Journal of Exercise Science Conference Proceedings.2021, 2(13).Article 29.

Invited presentation at national and international meetings

- Virtual Podium: Shen, C.-L.Tocotrienol (vitamin E bioactive molecules) supplementation for muscle strength study: an ongoing FDA-IND study, Annual meeting of Society of Clinical Research Associates (SoCRA), 2021.
- Virtual Podium:Shen, C.-L.Bioactive compounds for neuropathic pain: findings from preclinical studies, 5th InternationalSymposium on Phytochemicals in Medicine and Food, August 2021.

News Releases -Educational Activities for the Lay Public

"New research to examine effects of vitamin E on obesity". In: TTUHSC Statline Daily Dose, by Suzanna Cisneros, November 11, 2021

Posters: same as the number of abstracts

Grant Awards

- 1.“Actions of dietary tocotrienols on obesity_ARN supplemental fund”. American River Nutrition, Inc., Hadley, MA. Shen CL (PI). The goal of study is to test the hypothesis that tocotrienol supplementation improve lipid profiles and modify endocannabinoid and oxylipins in obese postmenopausal women. \$70,000. 11/1/2018-10/31/2021.
- 2.Medication Development for the Treatment of Alcohol Use Disorder”. Bergeson S (PI, contact), Shen CL (MPI). U01 AA028957 NIH/NIAAA. The goal of this study is to complete studies to prepare the chemically modified minocycline analogs for completion of investigational new drug (IND) enabling approval by the FDA and to begin a Phase I clinical trial. 9/20/2020-8/31/2025. \$7,251,682.
- 3.Ginger root extract for neuropathic pain”. Shen CL (PI). USDA. Award number: 2021-67017-34026. The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals. 1/1/2021-8/31/2023. \$500,000.
- 4.Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy. Shen CL (PI). Mohammad (Mac) Ansari (Co-I), Dale Dunn (Co-I), Scott Shurmur (consultant), Jaehoon Lee (Co-I), Hui-Ying Luk (Co-I). The goal of this study is to evaluate the effects of 3-months annatto-derived geranylgeraniol (GG) supplementation on statin-associated skeletal muscle health. Funded by American River Nutrition, LLC. 1/1/2022-12/31/2023. \$266,294.
- 5.Curcumin and Retinal Amyloid-beta Pilot Study. Shen CL (PI). Kelly Mitchell (Co-I), Dale Dunn (Co-I), Jaehoon Lee (Co-I). The goal of this study is to test how two weeks of curcumin supplementation would cross the blood brain barrier (BBB) and attach to amyloid beta proteins, to assess the feasibility (safety and bioavailability), and to explore the resulting abundance/composition of gut microbiota. Sabinsa Co. 1/1/2022-12/31/2022. \$94,991. (approved)

Grant Applications

- 1.U.S. Department of Health and Human Services, Health Resources and Services Administration Bureau of Health Workforce Division of Medicine and Dentistry, August 2021, Shen C (Co-Investigator), Promoting

Resilience and Mental Health Among Health Professional Workforce (PRMHW), 15% effort. (Currently Under Review)

2.NIH R01 “(under review) “Genetic link between SLC6A14 and obesity& Phase I/IIa trial with alpha-methyltryptophan for weight loss. Shen (MPI, 15%), Ganapathy (PI, contact). Requested amount: \$3,523,332.

Shin, Andrew

Publications

PEER-REVIEWED PUBLICATIONS

¹Corresponding author; ²First author; ³Students under Dr. Shin’s supervision

³Siddik MAB, ³Mullins CA, ³Kramer A, ³Shah H, ³Gannaban RB, Zabet-Moghaddam M, Huebinger RM, Hegde VK, MohanKumar SMJ, MohanKumar PS, ¹**Shin AC**. Branched-chain amino acids are causally linked with Alzheimer’s disease-related pathology and cognitive deficits. *Ageing Cell (IF: 9.30)*, 2021 (under review)

Zhou C, Ruiz H, Ling L, Maurizi G, Sakamoto K, Butera M, Libernini C, Wang L, Stanley A, **Shin AC**, Egritag H, Sanz S, Lindtner C, Buettner C. Adipose tissue lipolysis is a major driver of alcohol-induced fatty liver. *Nature Communications (IF: 14.92)*, 2021 (under review)

Benko S, Zhang F, **Shin AC**, Gillespie V, Zhang G, Gingold J, Andino B, Aguilo F, Chen CH, Li S, Lemischka I, Zhang WJ, Buettner C, Zhou MM, Walsh MJ. BRD4 regulates the enhancer landscape to modulate selective cell type-specific lipid metabolism. *Cell Reports (IF: 9.42)*, 2021 (under review)

Guardia LD, **Shin AC**. Adipose tissue dysfunction induced by particulate matter worsens cardio-metabolic health: An in-depth analysis. *Journal of Molecular Medicine (IF: 4.59)*, 2021 (under review)

Clark KA, **Shin AC**, Sirivelu MP, MohanKumar RC, Maddineni SR, Ramachandran R, MohanKumar PS, MohanKumar SMJ. Evaluation of the central effects of systemic lentiviral-mediated leptin delivery in streptozotocin-induced diabetic rats. *International Journal of Molecular Sciences (IF: 5.92)*, 2021 Epub ahead of print

Akheruzzaman M, Hegde V, ³Siddik MAB, Feizy Z, **Shin AC**, Dhurandhar NV. E4orf1-induced reduction in endogenous insulin level is independent of pancreas endocrine function. *International Journal of Obesity – Nature (IF: 5.095)*, 2021 Epub ahead of print

³Gannaban RB, NamKoong C, Ruiz HH, Choi HJ, ¹**Shin AC**. Central regulation of branched-chain amino acids is mediated by AgRP neurons. *Diabetes (IF: 9.46)*, 2021 Jan; 70(1): 62-75. Epub 2020 Oct 28.

¹**Shin AC**, Balasubramanian P, Suryadevara P, Zyskowski J, Herdt TH, MohanKumar SM, MohanKumar PS. Metformin effectively restores the HPA axis function in diet-induced obese rats. *International Journal of Obesity – Nature (IF: 5.095)*, 2021 Feb; 45(2): 383-395

Presentations

Posters

Grant Awards

NIH R01 NIA

Serotonin-modulated mitochondrial dysfunction in dementia, depression and diabetes

Co-I: Andrew C. Shin (PI: Arubala Reddy) \$2,428,686 (20% effort)

Wylie Briscoe Fund, College of Human Sciences, TTU

Analysis of blood metabolites in women with Alzheimer's disease, Dec 2021 – Dec 2022

PI: Andrew C. Shin

\$20,000

Diabetes Action Foundation

Understanding BCAA regulation – a step toward deciphering diabetes, Jan 2021 – Dec 2021

PI: Andrew C. Shin

\$20,000

Grant Applications: none

Singh, Sharda

Publications

1. Bose C, Hindle A, Lee J, Kopel J, Tonk S, Palade PT, Singhal SS, Awasthi S, Singh SP. Anticancer Activity of Ω -6 Fatty Acids through Increased 4-HNE in Breast Cancer Cells. *Cancers*. 2021;13(24). doi: 10.3390/cancers13246377.
2. Singh SP, Lee J, Bose C, Li H, Yuan Y-C, Hindle A, Singhal SS, Kopel J, Palade PT, Jones C, Rahman RL, Awasthi S. Haploinsufficiency Interactions between RALBP1 and p53 in ERBB2 and PyVT Models of Mouse Mammary Carcinogenesis. *Cancers*. 2021;13(13):3329. PubMed PMID: doi:10.3390/cancers13133329.
3. Petkovic M, Leal EC, Alves I, Bose C, Palade PT, Singh P, Awasthi S, Børsheim E, Dalgaard LT, Singh SP, Carvalho E. Dietary supplementation with sulforaphane ameliorates skin aging through activation of the Keap1-Nrf2 pathway. *The Journal of Nutritional Biochemistry*. 2021:108817. doi: <https://doi.org/10.1016/j.jnutbio.2021.108817>. (Co-corresponding author)

Presentations: none

Posters

Grant Awards

Grant Applications

1 R01 HL159303-01 Sulforaphane as an Adjunct for Doxorubicin Chemotherapy

The use of sulforaphane to prevent cardiac toxicity from doxorubicin

Major goals: To explore the contribution of PGAM5 signaling in doxorubicin cardiotoxicity using genetically modified mice to interrupt the PGAM5 pathway and relying on gene chip technology to identify new therapeutics.

Role: Principal Investigator

1 R01 CA162333-01 Methylomic Control of Gene Expression by Ralbp1 and p53 (Awasthi PI, Singh Co-PI)

Role: Co-Principal Investigator

PPG (Aging Systems and Geriatrics Study Section (ASG)) Mitochondria and Oxidative Stress in Aging (PD: Reddy, P. Hemachandra, PI: Singh)

Role: Principal Investigator on project 4

Mary Kay Foundation, Title of Project: Attenuating doxorubicin cardiotoxicity with sulforaphane in breast cancer patients (Singh PI)

Role: Principal Investigator

Sizer, Phil

Publications

Submitted Manuscripts (6 Submitted for Review) *Corresponding Author, ΔSenior Author

Wilhelm M*, Learman K, Hooper T, Brismée JM, James CR, Gilbert K, Cook C, Sizer PS. Multifidus co-contraction during volitional abdominal contractions in individuals with a recent history of low back pain. *Physiotherapy Theory & Practice*. Submitted.

Wilford K, Mena-Iturriaga MJ, Vugrin M, Wainner M, Sizer P, Seeber GH. An international perspective on healthcare provider gender bias in musculoskeletal pain management: A scoping review protocol. 2021. *BMJ Open*. Submitted.

Pendergrass T*, Sizer P, Hooper T, Brismée JM, James CR. The Effect of abdominal contractile strategy and squat depth on volitional preemptive abdominal contraction during a single-leg squat in asymptomatic subjects. *J Bodyw Mov Ther*. 2021. Submitted 12-5-21.

Lynch DJ, Drusch AS, Hooper TL, James CR, Brooks TJ, Sizer PS. *Δ Biomechanical responses to volitional preemptive abdominal contraction and stabilization belt use during a loaded squat. *Sports Biomech* 2021. Submitted 9-28-21.

Seeber GH*, Thalhamer T, Matthijs OC, Doskar W, Sizer PS, Lazovic D. Clinical Accuracy of the Lateral-Anterior Drawer Test for Diagnosing Posterior Cruciate Ligament Rupture. *Sports Health*. 2021; Submitted 8-17-21.

Smith K*, Farrow A, Sizer PS, James CR, Palmer TB, McComb JΔ. Effects of the Upright™ posture training program on spinal angles and muscular characteristics. *Gait Posture*. 2021. Submitted.

Peer Reviewed Journal Publications

*Corresponding Author; ΔSenior Author.

Samson JY,* Anderson DN, Hooper TL, Sizer PS, Hando BR, Brismée JMΔ. United states air force physical therapists perform musculoskeletal corticosteroid injections with high safety and low healthcare utilization. 2021 *Mil Med*. In-Press.

McKee D* Δ , Gilbert K, Lierly M, Sizer P, Wait E, Gosh M. Biomechanical strength of a novel tendon splicing open book technique compared to the Pulvertaft method using unembalmed human cadaveric tissue. *Plastic Surgery* 2021. Oct. <https://doi.org/10.1177/22925503211034844>

Ennis K, Sizer PS, Sargent E, Brismée JM, Drusch A, Kapila J, Hooper TL. Abdominal bracing changes lower quarter muscle activity but not reach distances during active forward reach on an unstable surface. *J Bodyw Mov Ther.* 2021. Oct; 28:391-396.

Dice J, Feuling S, Dendy D, Sizer P, Cook C, Brismée JM* Δ . Manual Therapy in Pediatrics: A Delphi Investigation of United States Physical Therapists. *Phys Ther* 2021. 101(4):pzab027. doi: 10.1093/ptj/pzab027..

Atkins LT*, James CR Δ , Yang HS, Sizer PS, Brismée JM, Sawyer SF, Powers CM. Immediate improvements in patellofemoral pain are associated with sagittal plane movement training to improve use of gluteus maximus muscle during single limb landing. *Phys Ther* 2021. 101(10):pzab165. doi: 10.1093/ptj/pzab165.

Lohman C*, Sobczak S, Hixson KM, James CR, Brismée JM, Sizer PS, Gilbert K Δ . Upper limb neurodynamic testing with radial and ulnar nerve biases: an analysis of cervical spinal nerve mechanics. *Musculoskel Sci Pract*, 2021, 52:102320. doi: 10.1016/j.msksp.2021.102320. Epub 2021 Jan 12.

Pepper T, Brismée JM, Sizer PS, Kapila J, Seeber GH, Hooper TL. The immediate effects of foam rolling and stretching on iliotibial band stiffness: A randomized control trial. *Int J Sports Phys Ther*, 2021 (Aug). 13(4): 651–660.

Gehring RD, Potter-Brunet J, Sizer PS, Gilbert KK, Brismée JM* Δ . A neural mobilization treatment strategy for patients with neurogenic claudication related to degenerative lumbar spinal stenosis: A prospective case series. *Int J Sports Exerc Med* 2021. 7:191. doi.org/10.23937/2469-5718/1510191.

Books, Book Chapters, Monographs, Book Forwards

Gramm K, Heppert J, Cook A, Young A, Smith C, Evola M, Romo C, Hequet E, Sizer P. *Commercialization Roadmap 2.0*. Texas Tech University. Lubbock, TX, USA. 2021.

Presentations

Research Platform Presentations

Seeber GH, Wilhelm MP, Sizer PS, Guthikonda A, Matthijs A, Matthijs OC, Lazovic D, Brismée JM, Gilbert KK. The tensile behaviors of the iliotibial band – A cadaveric investigation. *World Physiotherapy Congress 2021* online; April 09-11, 2021.

Research Poster Presentations

Seeber GH, Thalhamer C, Matthijs OC, Doskar W, Sizer PS, Lazovic D. Clinical accuracy of the lateral anterior drawer test for diagnosing posterior cruciate ligament rupture. *23rd EFORT Congress, Lisbon, Portugal*; 22.-24. June 2023. Abstract# 2027 (Accepted)

Pepper T, Brismée J-M, Sizer PS, Kapila J, Seeber GH, Huggins C, Hooper TL. The immediate effects of foam rolling and stretching on iliotibial band stiffness: a randomized control trial. *World Physiotherapy Congress 2021* online; April 09-11, 2021.

Seeber GH, Wilhelm MP, Sizer PS, Guthikonda A, Matthijs A, Matthijs OC, Brismée J-M, Gilbert KK. The Tensile Behaviors of the Iliotibial Band – A Cadaveric Investigation. *World Physiotherapy Congress 2021* online; April 09-11, 2021.

Seeber GH, Wilhelm MP, Guthikonda A, Lazovic D, Brismée JM, Gilbert KK, Sizer Jr PS. Das biomechanische Verhalten des Iliotibialbandes unter Zug – eine Präparatstudie. 69. Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen e.V. – online; April/May 2021.-

Seeber GH, Lierly M, Bassett C, Douthit C, Wilhelm MP, Lazovic D, Brismée JM, Gilbert KK, Sizer Jr PS. Der limitierende Einfluss des lateralen femoralen intermuskulären Septums auf die passive Hüftdduktion – eine Präparatstudie. 69. Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen e.V. – online; April/May 2021.

Grant Awards

Co-Principle Investigator: Kim S, Yoo H, Nguyen N, Sizer P. Culturally Informed Pain Diagnosis and Relief. National Science Foundation-National I-CORPS Initiative. Grant ID: 2114224. Accepted January, 2021. Grant period: March, 2021 through February 2022. Funded for \$50,000.

Co-Principle Investigator: Kiani S, Sizer P, Saeed ZI, Garza J, Redfern R. Applying the master adaptive learner framework via an innovative clinical documentation technology to enhance the clinical reasoning of medical students Accelerating change in medical education innovation grant-September, 2021-August, 2022. Funded for \$30,000.

Principal Investigator: The CH Foundation. Title of Project: TTUHSC Innovation Bridge Grant Program. NOI SUBMITTED in collaboration with TTU (Kimberly Gramm, TTU AVPIE). Status: Funded for \$65,000.

Grant Applications

Subaward Principal Investigator: National Science Foundation (NSF) NRT-FW-HTF-Developing Adaptive Research Workforce for Evolving Needs (DARWEN). Status: NOI Submitted 2-21.

Song, Huaxin

Publications

Masten, Y., Song, H ., Esperat, C. R., & McMurry, L. J. (2021). A maternity care home model of enhanced prenatal care to reduce preterm birth rate and NICU use. Birth.

Presentations: none

Posters: none

Grant Awards: none

Grant Applications:

2021

2021 HRSA. HRSA Promoting Resilience and Mental Health among Health Professional Workforce (PRMHW). Nursing Workforce Diversity Program (Scored 92) N/R N

St-John, Julie

Publications

Mostafa, F., Ganji, R., St. John, J., and Khan H. In review. Coronavirus (COVID-19) Spike in Georgia: An Epidemiologic Study of Data, Modelling, and Policy Implications to Understand the Gender-and Race-Specific Variations. *Frontiers in Public Health, Infectious Diseases – Surveillance, Prevention and Treatment*.

Chen, J., Dennis, J. A., St. John, J.A., Shen, C.L. (2022). Self-reported Patient Compliance with Physician Advised Lifestyle Behavior Changes Among Adults with Musculoskeletal Conditions. *Frontiers in Public Health, Public Health Education and Promotion*. Accepted January 31, 2022, in print.

St. John, J. A., Fox, D. J., Rosenthal, E. L., Lee, L. K. (2022). Editorial: Community Health Workers Practice from Recruitment to Integration. *Frontiers in Public Health, Public Health Education and Promotion*. Accepted January 4, 2022, in print.

St. John JA, Hernández-Gordon, W., Martínez, S., Hernández, I. (2022, January/March). Community health workers connecting communities during Covid-19: A case study from Chicago, USA. *Journal of Ambulatory Care*, 45(1): 2-12. DOI: 10.1097/JAC.0000000000000401
<https://journals.lww.com/ambulatorycaremanagement/pages/default.aspx>

St. John JA, Reininger, B, Balcazar H, Valerio M, Beaudoin CE (2021). What about promotores? Promotores' psychosocial determinants that influenced the delivery of a cervical cancer education intervention to Hispanics. *Frontiers in Public Health*, 9: 1255. <https://doi.org/10.3389/fpubh.2021.689616>

Byrd-Williams C, Ewing M, Rosenthal EL, St John, JA, Menking P, Redondo F, and Sieswerda S (2021). Training needs of community health workers (CHWs) facing the COVID-19 pandemic in Texas: a cross-sectional study. *Frontiers in Public Health, section Public Health Education and Promotion*. Article DOI: 10.3389/fpubh.2021.689946

BOOKS, BOOK CHAPTERS, OR REVIEWS

Fastring D, Mayfield-Johnson S, St. John JA, Hernández-Gordon W. (2021). Describing Results from the "Promoting the Health of the Community" National Needs Assessment. In J. A. St. John, S. L. Mayfield-Johnson, W. D. Hernández-Gordon (eds.), *Promoting the health of the community: Community health workers describing their roles, competencies, and practice* (pp. 43-54). Cham: Springer, 2021.
<http://www.springer.com/9783030563745>, [ps://tinyurl.com/StJohnetal2021](https://tinyurl.com/StJohnetal2021)

Hernández I, Martínez S, Hernández-Gordon W, St. John, JA (2021). Todo Corazón: Abogacía durante la pandemia (All heart: Advocacy during the Pandemic). In J. A. St. John, S. L. Mayfield-Johnson, W. D. Hernández-Gordon (eds.), *Promoting the health of the community: Community health workers describing their roles, competencies, and practice* (pp. 208-220). Cham: Springer, 2021.
<http://www.springer.com/9783030563745>, <https://tinyurl.com/StJohnetal2021>

Mayfield-Johnson S, Hernández-Gordon W., St. John JA (2021). Where do we go from here? A closing reflection. In J. A. St. John, S. L. Mayfield-Johnson, W. D. Hernández-Gordon (eds.), *Promoting the health of the community: Community health workers describing their roles, competencies, and practice* (pp. 409-413). Cham: Springer. <http://www.springer.com/9783030563745>, <https://tinyurl.com/StJohnetal2021>

Rosenthal EL, Fox DJ, St. John JA, Allen CG, Menking P, Brownstein JN, Hirsch GR, Redondo F, et al. (2021). The Community Health Worker Core Consensus (C3) Project Story: Confirming the Core Roles and Competencies of Community Health Workers. In J. A. St. John, S. L. Mayfield-Johnson, W. D. Hernández-Gordon (eds.), *Promoting the health of the community: Community health workers describing their roles, competencies, and practice* (pp. 11-36). Cham: Springer, 2021. <http://www.springer.com/9783030563745>, <https://tinyurl.com/StJohnetal2021>

Spock N, St. John JA, Kanana L, Acido JT, Agustin J, Canionero K, Talbert M, et al. (2021). CHWs Implementing Individual and Community Assessments: Examples from Hawai'i. In J. A. St. John, S. L. Mayfield-Johnson, W. D. Hernández-Gordon (eds.), *Promoting the health of the community: Community health*

workers describing their roles, competencies, and practice (pp. 291-310). Cham: Springer, 2021.
<http://www.springer.com/9783030563745>, <https://tinyurl.com/StJohnetal2021>

St. John JA, Mayfield-Johnson S, Hernandez H (editors). (2021). Promoting the Health of the Community – Community Health Workers Describing their Roles, Competencies, and Practice. Springer. ISBN: 978-3-030-56374-5. <http://www.springer.com/9783030563745>, <https://tinyurl.com/StJohnetal2021>.

St. John JA, Mayfield-Johnson S, Hernández-Gordon W. (2021). Introduction: Why Community Health Workers?. In J. A. St. John, S. L. Mayfield-Johnson, W. D. Hernández-Gordon (eds.), Promoting the health of the community: Community health workers describing their roles, competencies, and practice (pp. 3-10). Cham: Springer. <http://www.springer.com/9783030563745>, <https://tinyurl.com/StJohnetal2021>

OTHER PUBLICATIONS (peer reviewed)

St. John, JA., Byrd-Williams C., Rosenthal E. L., Menking, P., Redondo, F., Ewing, M., Herrington, E., Sieswerda, S., Kwentua, V., Dixon, M., & Simpson, J. (2021). The Final Report of the Community Health Worker COVID-19 Impact Survey: Texas Results & Methodology. The University of Texas at Houston Health School of Public Health; Texas Tech Health Science Center El Paso Paul L. Foster School of Medicine; & Texas Tech Health Science Center School of Biomedical Sciences. <https://www.c3project.org/resources>, <https://sph.uth.edu/research/centers/dell/resources/the%20final%20report%20of%20the%20community%20health%20worker.pdf>

St. John, JA (January 2021). West Texas Homeless Network Strategic Plan: 2021-2025. Texas Tech University Health Sciences Center, Graduate School of Biomedical Sciences, Abilene.

Presentations

PEER-REVIEWED PRESENTATIONS

Nurse practitioners' attitudes and use of complementary and alternative medicine practices for pain management. Julie St John, Leslie Shen, Grace Sun, Narissra Punyanunt-Carter. Annual American Public Health Association Meeting, October 23-27, 2021, Denver, Colorado.

COVID-19's impact on the CHW workforce: A multi-state comparison. Paige Menking, Courtney Byrd-Williams, Julie St John, Jessica Simpson, Kerstin M. Reinschmidt, E. Lee Rosenthal, Floribella Redondo, and Stephanie Sieswerda. Annual American Public Health Association Meeting, October 23-27, 2021, Denver, Colorado.

Comparison of a community assessment survey pre and after the covid-19 pandemic: Translating findings into practice. Julie St John & Michelle Parrish. Annual American Public Health Association Meeting, October 23-27, 2021, Denver, Colorado.

Social Determinants of Health: Place Matters. Denise Martinez, Julie St. John, Annette Lerma. Texas Association of Promotores/Community Health Workers. 2021 Annual Conference, September 27, 2021, virtual.

A Framework for Effective CHW Organizations. Denise Hernandez, Julie St. John. National Community Health Worker Association Unity Conference, July 28, 2021.

We Make the Road by Walking: CHWs' Stories of Utilizing Roles to Promote the Health of Their Communities. Susan Mayfield-Johnson, Julie St. John. National Community Health Worker Association Unity Conference, July 28, 2021. Julie Ann St. John – February 2022 - page 9 -

Equipping Community Health Workers to Address the Opioid Crisis & Related Mental Health Issues in their Communities. Julie St. John, Nakia Duncan. West Texas Regional Mental Health Conference, July 16, 2021, virtual.

Measuring Organizational Performance of Community Health Worker Organizations (poster). Denise A. Hernandez, Julie St. John. Texas Public Health Association Annual Education Conference, "Shine A Light on Public Health," May 17-19, 2021, virtual.

Building a Successful Community Health Worker (CHW) Professional Network (presentation).

Ashley Rodriguez, Debra Flores, Julie St. John, Denise A. Hernandez, Dolontria BryantWilliams. Texas Public Health Association Annual Education Conference, "Shine

A Light on Public Health," May 17-19, 2021, virtual.

Patient Adherence to Physician Advised Lifestyle Behavior Changes Among Adults with Musculoskeletal Conditions from 2017 NHIS data (poster). Jason Chen, Chwan-Li Shen, Julie St-John, and Jeff A. Dennis. TTUHSC Graduate School of Biomedical Sciences Student Research Week, March 9-12, 2021.

Do Demographics and/or Lifestyle Factors Explain the Differences in BMI and Obesity Between US Born and Foreign Born Blacks? (poster). Tochi Eboh; Leslie Shen, Julie St. John, Jeff A. Dennis. Julie St-John, and Jeff A. Dennis. TTUHSC Graduate School of Biomedical Sciences Student Research Week, March 9-12, 2021.

Applying diffusion of innovation to the Texas Mother Friendly Worksite Program: Does early adoption lead to lower rates of infant mortality? (poster). Jessyca Turner, Julie St. John, Jeff Dennis, Chwan Li-Shen. TTUHSC Graduate School of Biomedical Sciences Student Research Week, March 9-12, 2021.

Supporting the CHW Workforce as an Ally. (speaker & panelist). Julie St. John, Erin Turner, Takisha Lovelace, Oklahoma CHWs. Oklahoma Community Health Worker Forum Series, Oklahoma Public Health Training Center, The University Of Oklahoma Health Sciences Center. Webinar, October 14, 2021.

<https://ophtc.ouhsc.edu/webinars>

Human Trafficking Community Forum (panelist). Julie St. John, Conroy Kanter, SJ Murray, Stephanie Andrade-Rocha, Marcus Dudley, & Sam Pollinzi. Beyond Trafficking, Abilene Community Foundation, Abilene, TX, May 16, 2021. Julie Ann St. John – February 2022 - page 22 -

Human Trafficking: A Public Health Crisis? (presenter). Rebecca Sametz, Julie St. John, DJ Gilliland. The National Rehabilitation Association, Disability Virtual Summit, April 21, 2021.

https://drive.google.com/file/d/1fD0qfczrS9jyjwZ_gsy7gZtXaqrIPBg/view

Community Health Worker Covid-19 Impact Survey (presenter). Julie St. John. Advancing CHW Engagement in COVID-19 Response Strategies: A Webinar for Local Health Departments to Learn About COVID-19 Strategies Across the U.S. Community-Based Workforce Alliance, January 19, 2021.

Posters

Grant Awards

Piloting a Composting Latrine Project in Pedregal Grande, Piura, Peru. TTUHSC Office of Global Health, \$10,000 (January 2021-December 2022).

Grant Applications: none

Sun, Grace

Presentation

Nurse practitioners' attitudes and use of complementary and alternative medicine practices for pain management. Julie St John, Leslie Shen, Grace Sun, Narissra Punyanunt-Carter. Annual American Public Health Association Meeting, October 23-27, 2021, Denver, Colorado.

Tinsley, Grant

Publications

1. D. Ashtary-Larky, R. Bagheri, G. M. Tinsley, O. Asbaghi, S. Salehpour, S. Kashkooli, W. Kooti, and A. Wong. "Betaine supplementation fails to improve body composition: a systematic review and meta-analysis". *The British Journal of Nutrition* (2021), pp. 1-14. ISSN: 1475-2662. DOI: <https://doi.org/10.1017/S0007114521004062>. PMID: 34743773.
2. T. Moro, G. Tinsley, F. Q. Pacelli, G. Marcolin, A. Bianco, and A. Paoli. "Twelve Months of Time-restricted Eating and Resistance Training Improves Inflammatory Markers and Cardiometabolic Risk Factors". *Medicine and Science in Sports and Exercise* 53.12 (2021), pp. 2577-2585. ISSN: 1530-0315. DOI: <https://doi.org/10.1249/MSS.0000000000002738>. PMID: 34649266.
3. P. S. Harty†, K. E. Friedl, B. C. Nindl, J. R. Harry, H. L. Vellers, and G. M. Tinsley*. "Military Body Composition Standards and Physical Performance: Historical Perspectives and Future Directions". *Journal of Strength and Conditioning Research* (2021). ISSN: 1533-4287. DOI: <https://doi.org/10.1519/JSC.00000000000004142>. PMID: 34593729.
4. J. J. Green†, R. W. Smith†, M. T. Stratton†, P. S. Harty†, C. Rodriguez†, M. R. Siedler†, S. J. White†, A. D. Williams†, J. R. Dellinger†, D. S. Keith†, J. R. Boykin†, and G. M. Tinsley*. "Cross-sectional and longitudinal associations between subcutaneous adipose tissue thickness and dual-energy X-ray absorptiometry fat mass". *Clinical Physiology and Functional Imaging* 41.6 (2021), pp. 514-522. ISSN: 1475-097X. DOI: <https://doi.org/10.1111/cpf.12727>. PMID: 34549507.
5. J. R. Boykin†, G. M. Tinsley, C. M. Harrison, J. Prather, J. Zaragoza, M. Tinnin, S. Smith, C. Wilson, and L. W. Taylor. "Offseason Body Composition Changes Detected by Dual-Energy X-ray Absorptiometry versus Multifrequency Bioelectrical Impedance Analysis in Collegiate American Football Athletes". *Sports* 9.8 (2021). ISSN: 2075-4663. DOI: <https://doi.org/10.3390/sports9080112>. PMID: 34437373.
6. G. M. Tinsley*, P. S. Harty†, M. T. Stratton†, R. W. Smith†, C. Rodriguez†, and M. R. Siedler†. "Tracking changes in body composition: comparison of methods and influence of pre-assessment standardisation". *The British Journal of Nutrition* (2021), pp. 1-19. ISSN: 1475-2662. DOI: <https://doi.org/10.1017/S0007114521002579>. PMID: 34325758.
7. C. Rodriguez†, P. S. Harty†, M. T. Stratton†, M. R. Siedler†, R. W. Smith†, B. A. Johnson†, J. R. Dellinger†, A. D. Williams†, S. J. White†, M. L. Benavides†, and G. M. Tinsley*. "Comparison of Indirect Calorimetry and Common Prediction Equations for Evaluating Changes in Resting Metabolic Rate Induced by Resistance Training and a Hypercaloric Diet". *Journal of Strength and Conditioning Research* (2021). ISSN: 1533-4287. DOI: <https://doi.org/10.1519/JSC.00000000000004077>. PMID: 34172636.
8. D. Ashtary-Larky, R. Bagheri, G. M. Tinsley, O. Asbaghi, A. Paoli, and T. Moro. "Effects of intermittent fasting combined with resistance training on body composition: a systematic review and meta-analysis". *Physiology & Behavior* 237 (2021), p. 113453. ISSN: 1873-507X. DOI: <https://doi.org/10.1016/j.physbeh.2021.113453>. PMID: 33984329.
9. J. R. Harry, L. A. Barker, G. M. Tinsley, J. Krzyszkowski, L. D. Chowning, J. J. McMahon, and J. Lake. "Relationships among countermovement vertical jump performance metrics, strategy variables, and inter-limb asymmetry in females". *Sports Biomechanics* (2021), pp. 1-19. ISSN: 1752-6116. DOI: <https://doi.org/10.1080/14763141.2021.1908412>. PMID: 33947320.
10. R. W. Smith, P. S. Harty†, M. T. Stratton†, Z. Rafi, C. Rodriguez†, J. R. Dellinger†, M. L. Benavides†, B. A. Johnson†, S. J. White†, A. D. Williams†, and G. M. Tinsley*. "Predicting Adaptations to Resistance Training Plus Overfeeding Using Bayesian Regression: A Preliminary Investigation". *Journal of Functional Morphology and Kinesiology* 6.2 (2021). ISSN: 2411-5142. DOI: <https://doi.org/10.3390/jfmk6020036>. PMID: 33919267.
11. D. Ashtary-Larky, R. Bagheri, M. Ghanavati, O. Asbaghi, G. M. Tinsley, D. Mombaini, W. Kooti, S. Kashkooli, and A. Wong. "Effects of betaine supplementation on cardiovascular markers: A systematic review and Meta-analysis". *Critical Reviews in Food Science and Nutrition* (2021), pp. 1-18. ISSN: 1549-7852. DOI: <https://doi.org/10.1080/10408398.2021.1902938>. PMID: 33764214.
12. M. T. Stratton†, R. W. Smith†, P. S. Harty†, C. Rodriguez†, B. A. Johnson†, J. R. Dellinger†, A. D. Williams†, S. J. White†, M. L. Benavides†, and G. M. Tinsley*. "Longitudinal agreement of four bioimpedance analyzers for detecting changes in raw bioimpedance during purposeful weight gain with resistance training".

European Journal of Clinical Nutrition (2021). ISSN: 1476-5640. DOI: <https://doi.org/10.1038/s41430-020-00811-3>. PMID: 33727706.

13. M. N. M. Blue, G. M. Tinsley, E. D. Ryan, and A. E. Smith-Ryan. "Validity of Body-Composition Methods across Racial and Ethnic Populations". *Advances in Nutrition*(Mar. 2021). ISSN: 2156-5376. DOI: <https://doi.org/10.1093/advances/nmab016>. PMID:33684215.

14. D. Ashtary-Larky, R. Bagheri, O. Asbaghi, G. M. Tinsley, W. Kooti, A. Abbasnezhad, R. Afrisham, and A. Wong. "Effects of resistance training combined with a ketogenic diet on body composition: a systematic review and meta-analysis". *Critical Reviews in Food Science and Nutrition* (2021), pp. 1-16. ISSN: 1549-7852. DOI: <https://doi.org/10.1080/10408398.2021.1890689>. PMID: 33624538.

15. G. M. Tinsley, C. M. Peterson, and B. D. Horne. "Caution Against Overinterpreting Time-Restricted Eating Results". *JAMA Internal Medicine* (2021). ISSN: 2168-6114. DOI:<https://doi.org/10.1001/jamainternmed.2020.8934>. PMID: 33616609.

16. J. R. Dellinger†, B. A. Johnson†, M. L. Benavides†, M. L. Moore†, M. T. Stratton†, P. S. Harty†, M. R. Siedler†, and G. M. Tinsley*. "Agreement of bioelectrical resistance, reactance, and phase angle values from supine and standing bioimpedance analyzers". *Physiological Measurement* (2021). ISSN: 1361-6579. DOI: <https://doi.org/10.1088/1361-6579/abe6fa>. PMID: 33592586.

Presentations/ Abstracts

1. "Body Composition Assessment: Lack of Standardization Can Wreak Havoc" Plenary session. Approximate attendance: 200. Duration: 30 minutes. St. Petersburg, FL. International Society of Sports Nutrition 18th Annual Conference

2. "Body Composition Assessment: Underlying Assumptions and Practical Recommendations for Improved Estimation." Invited speaker. Virtual meeting. Texas Chapter of the American College of Sports Medicine Annual Meeting

3. "Intermittent Fasting." Plenary session. Approximate attendance: 100. Duration: 1 hour.

4. Green J†, Smith R†, Harty P†, Stratton M†, Rodriguez R†, White S†, Williams A†, Johnson B†, Dellinger J†, Benavides M†, Siedler M†, Tinsley G. "Cross-sectional and Longitudinal Relationships Between Skinfold Thicknesses Obtained by Ultrasonography and Body Fat Estimates Produced by Dual-energy X-ray Absorptiometry." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13).

<https://digitalcommons.wku.edu/ijesab/vol2/iss13/27>

5. Keith D†, Scherrer D, Nunley B, Harry J, Tinsley G. "Anthropometric Predictors of Concentric Hip, Knee, and Ankle Work During a 5x5 Conventional Deadlift Routine." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13). <https://digitalcommons.wku.edu/ijesab/vol2/iss13/26>

6. Boykin J†, Tinsley G, Harrison C, Prather J, Zaragoza J, Tinnin M, Smith S, Wilson C, Taylor L. "Offseason Body Composition Changes Detected by Dual-Energy X-Ray Absorptiometry Versus Multifrequency Bioelectrical Impedance Analysis in Collegiate American Football Athletes." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13). <https://digitalcommons.wku.edu/ijesab/vol2/iss13/25>

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7. Siedler M†, Harty P†, Stratton M†, Rodriguez C†, Keith D†, Green J†, Boykin J†, Dellinger J†, White S†, Williams A†, DeHaven G†, Tinsley G. "Day-to-Day Precision Error and Least Significant Change for Two Commonly Used Bioelectrical Impedance Analysis Devices." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13). <https://digitalcommons.wku.edu/ijesab/vol2/iss13/18>

8. DeHaven G†, Siedler M†, Stratton M†, Harty P†, Rodriguez C†, Keith D†, Green J†, Boykin J†, Dellinger J†, White S†, Williams A†, Tinsley G. "Analyzing the Between-Day Reliability of Three-Dimensional Body Scanners for Body Composition Assessment." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13). <https://digitalcommons.wku.edu/ijesab/vol2/iss13/23>

9. Harrison C, Boykin J†, Tinsley G, Prather J, Zaragoza J, Tinnin M, Smith S, Wilson C, Taylor L. "Performance and Body Composition Changes Following an Offseason Training Period in DIII Collegiate American Football Athletes." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13). <https://digitalcommons.wku.edu/ijesab/vol2/iss13/70>

10. Rodriguez C†, Harty P†, Stratton M†, Siedler M†, Smith R†, Johnson B†, Dellinger J†, Williams A†, White S†, Benavides M†, Tinsley G. "Comparison of Indirect Calorimetry and Common Prediction Equations for Evaluating Changes in Resting Metabolic Rate Induced by Resistance Training and a Hypercaloric Diet." *International Journal of Exercise Science: Conference Proceedings*. 2021;2(13).

<https://digitalcommons.wku.edu/ijesab/vol2/iss13/9>

11. Harty P, Stecker R, Tinsley G, Kerksick C. "Metabolic and Body Composition Changes After Skin Reduction Surgery Following Massive Weight Loss." International Journal of Exercise Science: Conference Proceedings. 2021;2(13). <https://digitalcommons.wku.edu/ijesab/vol2/iss13/87>
12. Zaragoza J, Urbina S, Purpura M, Jäger R, Tinsley G, Stone J, Askow A, Oliver J, Taylor L. "Probiotic administration increases amino acid absorption from plant protein – A placebo controlled, randomized, double-blind, multicenter, crossover study." The FASEB Journal. 2020; 34(S1). <https://doi.org/10.1096/fasebj.2020.34.s1.00232>
13. Brennan K, Wong R, Barker J, Berreth T, Fox R, Maldonado M, Van Cleave C, Zaragoza J, Tinnin M, Tinsley G, Taylor L. "The Effects of Acute Resistance Exercise on Bioelectrical Impedance Analysis Measures of Segmental Body Composition Analysis." Journal of Strength & Conditioning Research. 2021; 35(4). https://journals.lww.com/nsca-jscr/Fulltext/2021/04000/2020_NSCA_Research_Abstracts.41.aspx
14. Harty P†, Surowiec K, Tinsley G, Zabriskie H, Stecker R, Currier B, Moon J, Richmond S, Jagim A, Kerksick C. "Practical Timing Strategies to Optimize Plasma Caffeine Concentration Prior to Exercise". Journal of Strength & Conditioning Research. 2021; 35(4). https://journals.lww.com/nsca-jscr/Fulltext/2021/04000/2020_NSCA_Research_Abstracts.41.aspx
15. Stratton M†, Harty P†, Smith R†, Rodriguez C†, Williams A†, White S†, Dellinger J†, Johnson B†, Benavides M†, Tinsley G. "A Comparison Between Alterations in Ultrasound-derived Muscle Thickness and Dual-energy X-ray Absorptiometry Segmental Lean Mass". Journal of Strength & Conditioning Research. 2021; 35(4). https://journals.lww.com/nsca-jscr/Fulltext/2021/04000/2020_NSCA_Research_Abstracts.41.aspx

Grant Awards

See box file, picture attached to CV is confusing

Grant Applications

Zhang, Fangyuan

Publications

1. Neupane, J., Guo, W., Cao, G., **Zhang, F.**, Slaughter, L., Deb, S. (2022). Spatial patterns of soil microbial communities and implications for precision soil management at the field scale. Precision Agriculture.
2. Neupane, J., Guo, W., Lin, Z., West, C., **Zhang, F.** (2021). Effects of Irrigation Rates on Cotton Yield as Affected by Soil Physical Properties and Topography in the Southern High Plains. Plos One, 16(10), e0258496.
3. Dennis, J., Zhang, Y., **Zhang, F.**, Kopel, J., Abohelwa, M., Nugent, K. (2021) Comparison of 30-Day Mortality and Readmission Frequency in Women versus Men with Acute Myocardial Infarction. Baylor University Medical Center Proceedings.

Presentations-none

Posters-none

Grant Awards-none

Grant Applications-none

Zumwalt, Mimi

Publications

Gender/ sex, race/ethnicity, similarities/differences among SARS-CoV, MERS-CoV, and COVID-19 patients. Ha FL, John A, Zumwalt M. The Southwest Respiratory and Critical Care Chronicles January 2021; 9(37):1–15

Presentations

E-Poster/Podium Presentations:

Decontamination Methods of Personal Protective Equipment (PPE) for Repeated Utilization in Medical/Surgical Settings AK Kharbat, Adin Mizer, Mimi Zumwalt, MDUTHSCSA Virtual Symposium, March 2021

Neurobiological mechanisms of pain modulation from Tai-Chi: a single-arm pre/post pilot study Shen C-L, Kahathuduwa C, Chyu M-C, Brismée J-M, Knox A, Wang R, Luk H-Y, Appell C, O'Boyle M, Zumwalt M, Lee J, Watkins BA, Neugebauer V. Integrative Medicine & Health Virtual Symposium, April 2021

Posters

Research Week Virtual P3 Honors Project Faculty Facilitator/Mentor February, 2021

Grant Awards: none

Grant Applications: none

Al-Rahawan, Mohamed

Publications:

1. Chyu J, Ali Z, **Al-Rahawan MM**. Comments on evaluation of an oral sodium bicarbonate protocol for high-dose methotrexate urine alkalinization. *Support Care Cancer*. 2022 Dec;30(12):9699-9700.
2. **Al-Rahawan MM**, Barr EK, Yang J, West N, Hinds P. Comments on Quality of life in Ewing sarcoma patients treated with combination chemotherapy. *Medicine (Baltimore)*. 2022 <https://journals.lww.com/md-journal/Blog/MedicineCorrespondenceBlog//pages/post.aspx?PostID=164>

Presentations:

1. October 2022 Poster: Vitamin D levels in pediatric patients undergoing chemotherapy; Blood Supplement; Texas Tech University Health Science Center; CEIH Annual Symposium; Lubbock TX; Presented by, Madison Schoeberl, MS-III. https://www.ttuhscc.edu/medicine/medical-education/dome_lwbiwh_symposium2022.aspx
2. October 2022 Poster: Report on Toxicity of Cancer Therapy in Children from West Texas Enrolled on ACCESS Study; Texas Tech University Health Science Center; CEIH Annual Symposium; Lubbock TX; Presented by, Katherine Mitchell, MS-III. https://www.ttuhscc.edu/medicine/medical-education/dome_lwbiwh_symposium2022.aspx

Abstracts:

1. Schoeberl M, Prabhakar N, Mikkelsen M, Urias E, Scott C, Lee J, Shen CL, Al-Rahawan MM; Vitamin D levels in pediatric patients undergoing chemotherapy; *Blood* 2022; 140 (Supplement 1): 11600

Bennett, Margaret

Publications:

1. **Bennett-Brown, M.**, Gesselman, A.N., & Miller, W.R. (2022-online first). Constructive communication patterns as related to relationship satisfaction, seizure severity, and patient activation among people with epilepsy. *Epilepsy & Behavior*. <https://doi.org/10.1016/j.yebeh.2022.108957>
2. **Bennett-Brown, M.** & Denes, A. (2022-online first). Testing the communication during sexual activity model: An examination of personality characteristics and their relationship with sexual communication outcomes. *Communication Research*. <https://doi.org/10.1177/00936502221124390>
3. **Bennett-Brown, M.** & Wright, P.J. (2022). Pornography consumption and partnered sex: A review of pornography use and satisfaction in romantic relationships. *Current Addiction Reports*. doi: 10.1007/s40429-022-00412-z
4. Campbell, J.T., Adams, O.R., **Bennett-Brown, M.**, Woodward, B., Gesselman, A.N., & Carter, G. (2022). PrEP familiarity, interest, and usage among 364 Black and Hispanic adults in Indiana. *Frontiers in Public Health*. <https://doi.org/10.3389/fpubh.2022.810042>
5. **Bennett-Brown, M.**, Adams, O.R., Campbell, J.T., Moscovici, Z., & Gesselman, A.N. (2022). Chronic vulvovaginal pain in patients of color: Benefits of partner supportiveness in relation to sexual dissatisfaction and distress. *International Journal of Environmental Research and Public Health*. <https://doi.org/10.3390/ijerph19073975>
6. Denes, A., Crowley, J.P, Dhillon, A., **Bennett-Brown, M.**, Stebbins, J.L., & Granger, S.W (2022). Exploring the role of oxytocin in communication processes: A test of the post sex disclosures model. *Communication Monographs*. <https://doi.org/10.1080/03637751.2021.1957490>

Presentations:

1. **Bennett-Brown, M.**, Campbell, J.T., & Gesselman, A.N., (2022, November). Do personality traits matter in sexual comfortability: Examining predictors of sexual self-esteem. Paper/Poster presented at the annual meeting of The Society for the Scientific Study of Sexuality in Vancouver, Canada.

- Gesselman, A.N., Kaufman, E.M., Marcotte, A.S., **Bennett-Brown, M.**, & Campbell, J.T. (2022, November). Building intimacy on camera: Emotional intimacy between consumers and performers on erotic webcamming platform. Paper presented at the annual meeting of The Society for the Scientific Study of Sexuality in Vancouver, Canada.
- Gesselman, A.N., Campbell, J.T., **Bennett-Brown, M.**, Kaufman, E. M., Fredrick, D.A., Garcia, J.R., & Mark, K.P. (2022, July). What a touch implies: body image as a mediator of nonverbal affection and relationship well-being. Paper presented at the annual meeting of the International Association for Relationship Research in London, England (online conference due to COVID-19).
- Blumenstock, S. & **Bennett-Brown, M.** (2022, July). Romantic attachment and dyadic sexual desire: The role of partner type. Paper presented at the annual meeting of the International Association for Relationship Research in London, England (online conference due to COVID-19).
- Bennett-Brown, M.**, Kaufman, E.M., Marcotte, A.S., & Gesselman, A.N (2022, May) Benefits of using erotic webcam sites: Clients' and models' improvement in communication skill related to emotional and sexual needs fulfillment. Paper presented at the annual meeting of the International Communication Association in Paris, France.

Binks, Martin

Publications:

- Chirico Scheele S, Hartmann C, Siegrist M, **Binks M**, Egan PF. Consumer Assessment of 3D-Printed Food Shape, Taste, and Fidelity Using Chocolate and Marzipan Materials. *3D Print Addit Manuf.* 2022 Dec 1;9(6):473-482. doi: 10.1089/3dp.2020.0271. Epub 2022 Dec 13. PMID: 36660745; PMCID: PMC9831564.
- Zhu Y, Bailey D, Childress A, Dawson JA, **Binks M**, Dhurandhar NV. Greater protein quality of an egg breakfast may be inadequate to induce satiety during weight loss, compared with a cereal breakfast of equal protein quantity. *Int J Food Sci Nutr.* 2022 Dec;73(8):1096-1103. doi: 10.1080/09637486.2022.2133097. Epub 2022 Oct 13. PMID: 36237122.

Book chapters:

- Chirico-Scheele, S., **M. Binks**, and P. Egan. "3D Printing Food: Manufacturing, Mechanics, and Validation." *Materials Science and Engineering in Food Product Development*. Wiley Publishing (in press).
- Binks M.** The Role of the Food Industry in Obesity. In: Bray GA, Bouchard C, eds, *Handbook of Obesity, V. 1*, 5th edn. CRC Press; 2022: Ch 43 (in press).

Abstract:

- Chirico-Scheele, S., G. Christopher, **M. Binks**, and P. Egan. "Effects of cricket and pea protein addition on the firmness, taste preference, and printability of 3D printed mashed potatoes." First annual event and expo, Institute of Food Technologists Conference. Chicago, IL, 2022.

Outreach & Engagement:

- TTU-Health Sciences Center Rural and Community Engagement Division, TTUHSC – Permian Basin and Office of Continuing Medical Education: Motivational Health Coaching. Online 01/11/2023.
- Live Smart Texas. World Obesity Day Open House (March 4 2022)
- NMHI High School Experience – A summer educational "camp" in Nutrition and Metabolic Diseases for High School students

Brismee, JM

Publications:

- Samson JY, Anderson DN, Hooper TL, Sizer PS, Hando BR, **Brismée JM.** Safe Administration and Low Healthcare Utilization Following Musculoskeletal Corticosteroid Injections by U.S. Military Physical Therapists. *Military Medicine.* 2022 Sep 22:usaa556.

2. Campbell DF, **Brismée J**, Allen B, Hooper TL, Domenech MA, Manella KJ. Ethnicity Does Not Impact Physical Therapy Students' Clinical Readiness and Performance, a United States Exploratory Study. The Internet Journal of Allied Health Sciences and Practice. 2023;21(1), Article 9. <https://nsuworks.nova.edu/ijahsp/vol21/iss1/9/>
3. **Brismée JM**, Froment FP, Bellot N, Mambriani A, Chauvet G, Chevrier S, Desjardins T, Riquier S, Rakotoarivelo LH, Datoussaid K, Pitance L. OMT-France publishes the first French physiotherapy guide for triage of patients with neuromusculoskeletal conditions - a step toward direct access in French speaking countries. Journal of Manual and Manipulative Therapy. 2022;30(5):259-260.
4. Dice JL, Dendy D, Sizer PS, Cook CE, Feuling S, **Brismée JM**. Author Response to Shear et al. Physical Therapy. 2022:pzac115.
5. Ennis K, Sizer PS, Sargent E, **Brismée JM**, Drusch A, Kapila J, Hooper TL. Abdominal Bracing Changes Lower Quarter Muscle Activity but Not Reach Distances During Active Forward Reach on an Unstable Surface. Journal of Bodywork and Movement Therapies. 2021;28:391-396.
6. Denny B, **Brismée JM**. Manual therapy and upper quarter training in an adolescent quarterback with chronic clinically suspected thoracic outlet syndrome: A case report with 1-year follow up. International Journal of Sports and Exercise Medicine. 2022;8(2):217. <https://clinmedjournals.org/articles/ijsem/international-journal-of-sports-and-exercise-medicine-ijsem-8-217.pdf?jid=ijsem>
7. Shen CL, Watkins BA, Kahathuduwa C, Chyu MC, Zabet M, Elmassry MM, Luk HY, **Brismée JM**, Knox A, Lee J, Zumwalt M, Wang R, Wager TD, Neugebauer V. Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women with Knee Osteoarthritis: An Exploratory Pilot Study. Frontiers in Medicine, section Rheumatology. 2022;8:775344. <https://www.frontiersin.org/articles/10.3389/fmed.2021.775344/full>

Presentations:

Oral:

1. Annual AAOMPT Conference 2022. Crawford M*, **Brismée JM**, St-Pierre MO, Bellot N, Sizer PS, Sobczak S. "Cervical Intradiscal Pressure Responses To Supine Sagittal Plane End-Range Postures: A Cadaveric Investigation." San Diego, California, 10/29/2022
2. Annual AAOMPT Conference 2022. Kapila J*, Hooper TL, **Brismée JM**, Sobczak S, Munger L, Likness A, Sizer PS. "Cervical Multifidus Muscle Stiffness During Active Neck Movements: A Shear Wave Elastography Study." San Diego, California, 10/29/2022
3. Annual AAOMPT Conference 2022. Pugliese M*, Allen B, Tammany J, Riley S, **Brismée JM**. "Mentorship Participation Is Associated With Lower Burnout Levels In Physical Therapists Practicing In The United States." San Diego, California, 10/29/2022
4. Annual AAOMPT Conference 2022. Thompson J*, Page P, Hooper TL, Sobczak S, Rosendahl-Garcia K, Anderson D, **Brismée JM**. "Novel musculoskeletal ultrasound methodology to measure cervical intervertebral disc height found reliable and valid against MRI." San Diego, California, 10/29/2022
5. Annual AAOMPT Conference 2022. Kearns G*, **Brismée JM**, Riley SP, Wang-Price SS, Denninger T, Vugrin M. "Lack Of Standardization In Dry Needling Dosage And Adverse Event Documentation Limits Outcome And Safety Reports: A Scoping Review Of Randomized Clinical Trials" San Diego, California, 10/29/2022

Poster:

1. Educational Leadership Conference of the American Physical Therapy Association (2022). Campbell DF, **Brismée JM**, Allen B, Hooper TL, Domenech TA, Manella KJ. "Effectiveness of Flex vs. Residential Program in Clinical Experience Outcomes"¹_{ISEP} Milwaukee, Wisconsin, 10/28/2022
2. Educational Leadership Conference of the American Physical Therapy Association (2022). Campbell DF, **Brismée JM**, Allen B, Hooper TL, Domenech TA, Manella KJ. "Effectiveness of Integrated Simulation compared to Integrated Clinical Experience in Development of DPT Students' Clinical Decision-Making Skills". Milwaukee, Wisconsin, 10/29/2022

3. Ohio Physical Therapy Fall Conference 2022 – Best Poster Award. Crawford M*, **Brismée JM**, St-Pierre MO, Bellot N, Sizer PS, Sobczak S. “Sagittal Plane End-Range Posture Effects on Cervical Intradiscal Pressure: A Cadaveric Investigation.” Westerville, Ohio, 09/16/2022
4. 34th Annual Student Research Week at Texas Tech University Health Sciences Center. Matthijs A, Matthijs OC, Windisch G, Streitmayer B, Kerner A, Sizer PS, **Brismée JM**. “Neck Sidebent Pre-Positioning Isolates Atlanto-Axial Joint Rotation by Locking the Other Cervical Segments: A Cadaveric Study”. Lubbock, Texas, 03/09/2022
5. 34th Annual Student Research Week at Texas Tech University Health Sciences Center. Pugliese MS, **Brismée JM**, Allen B, Riley SP, Tammany J. “The Impact of Mentorship and Self-efficacy on Burnout in Physical Therapists”. Lubbock, Texas, 03/09/2022
6. 34th Annual Student Research Week at Texas Tech University Health Sciences Center. Thompson JA, Page PA, Hooper TL, Sobczak S, Rosendahl-Garcia KM, **Brismée JM**. “Reliability and Validity of Cervical Disc Height Measurements Using Magnetic Resonance Imaging and Musculoskeletal Ultrasound”. Lubbock, Texas, 03/09/2022
7. Combined Section Meeting of the American Physical Therapy Association (2022). Campbell DF, **Brismée JM**, Allen B, Hooper TL, Domenech TA, Manella KJ. “Clinical Reasoning Self-Efficacy and Confidence of DPT Students with PT Interventions Using Telehealth”. San Antonio, Texas, 02/05/2022
8. Combined Section Meeting of the American Physical Therapy Association (2022). Atkins LT, James CR, Yang HS, Sizer PS, **Brismée JM**, Sawyer S, Powers CM. “Sagittal Plane Movement Training to Improve Use of Gluteus Maximus Reduces Patellofemoral Pain”. San Antonio, Texas, 02/03/2022

Abstracts:

- Lodhi M, **Brismée JM**. Effects of hip joint mobilizations using a mobilization belt on hip range of motion and functional outcomes: A Case Series.
- Brun A, Sandrey M. The effect of hip joint mobilizations using a mobilization belt on hip range of motion and functional outcomes. *Journal of Sports Rehabilitation*. 2021; 30:559-567.
- In IAOM-US Commons, 08/15/2022 <https://iaom-us.com/effects-of-hip-joint-mobilizations-using-a-mobilization-belt-on-hip-range-of-motion-and-functional-outcomes-a-case-series/>

Grant Awards:

1. Investigators: Yasrebi, Brismée, Sizer, Crawford, Sobczak/ Agency: CH Foundation Pain Science Scholar Development Award. Amount: \$5,000. Awarded: December, 2022. Title: Cervical Intradiscal Pressure During Sitting End-Range Neck Postures: A Cadaveric Investigation. Submitted: November, 2022. Period: 01/10/2023 – 12/15/2025

Chyu, Ming-Chien

Publications:

1. Masud AA, Shen CL, Luk HY, **Chyu MC**. Impact of Local Vibration Training on Neuromuscular Activity, Muscle Cell, and Muscle Strength: A Review. *Crit Rev Biomed Eng*. 2022;50(1):1-17. doi: 10.1615/CritRevBiomedEng.2022041625. PMID: 35997107.
2. Shen CL, Watkins BA, Kahathuduwa C, **Chyu MC**, Zabet-Moghaddam M, Elmassry MM, Luk HY, Brismée JM, Knox A, Lee J, Zumwalt M, Wang R, Wager TD, Neugebauer V. Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women With Knee Osteoarthritis: An Exploratory Pilot Study. *Front Med (Lausanne)*. 2022 Jan 3;8:775344. doi: 10.3389/fmed.2021.775344. PMID: 35047525; PMCID: PMC8761802.
3. Masud, A. A., Shen, C.-L., Chyu, M.-C. (2022). On the Optimal Whole-Body Vibration Protocol for Muscle Strength. *Biomechanics*, 2(4), 547–561. <https://www.mdpi.com/2673-7078/2/4/43>

Coman, Ioana

Publications:

1. **Coman, I.A.**, Xu, S., & Yamamoto, M. (2022). COVID-19 Vaccine Hesitancy: Disadvantaged Groups' Experience with Perceived Barriers, Cues to Action, and Attitudes. *American Journal of Health Promotion*. <https://doi.org/10.1177/08901171221136113>
2. Xu S., **Coman I.A.**, Yamamoto M., & Najera, C. (2022). Exposure Effects or Confirmation Bias?: Examining Reciprocal Dynamics of Misinformation, Misperceptions, and Attitudes toward COVID-19 Vaccines. *Health Communication*. <https://doi.org/10.1080/10410236.2022.2059802>
3. Ittefaq, M., Abwao, M., **Coman, I.A.**, & Ejaz, W. (Accepted Dec. 2022 – Print/published 2023). A Systematic Literature Review of Research From 2010 to 2020 Addressing User-Generated Online Comments Related to Health Issues and Recommendations for Future Research. *International Journal of Communication*. 17: 256-280.
4. **Coman, I.A.**, Cooper-Norris C., Longing, S., & Perry G. It Is a Wild World in the City: Urban Wildlife Conservation and Communication in the Age of COVID-19. *Diversity*. 14(7), 539, 1-20. Special Issue Human Wildlife Conflict across Landscapes. Special Editor: Dr. Thomas Göttert. <https://doi.org/10.3390/d14070539>
5. **Coman, I.A.**, Yuan, S., & Tsai, J.Y. (2022). Toward an Audience-Centric Framework of Corporate Social Advocacy Strategy: A survey of Generation Z. *Sustainability*. Special Issue: Corporate Social Responsibility, Corporate Social Advocacy, and Societal Change. Special Editors: Dr. Hyejoon Rim & Dr. Holly Overton. 14(7), 4099. <https://doi.org/10.3390/su14074099>
6. Gearhart, S., **Coman, I.A.** & Moe, A. (2022). Facebook Comments Influence Perceptions of Journalistic Bias: Testing Hostile Media Bias in the COVID-19 Social Media Environment. *Electronic News Journal*. 17(1): 3-18. <https://doi.org/10.1177/19312431221103127>

Presentations: (Conference presentations, moderator/discussant, workshops, etc.)

1. **Coman, I.A.**, Xu, S., Yamamoto, M. (May 2022). COVID-19 vaccine hesitancy among disadvantaged groups: Explicating barriers and cues to action in the Health Belief Model. ICA. Paris, France. (peer reviewed)
2. **Coman, I.A.**, Swed, O., Sreepada, N. & Dang, T. (August 2022). What's in a footprint? An exploration of Twitter real versus fake news accounts during the 2016 electoral campaign. AEJMC, Detroit, MI.
3. **Coman, I.A.**, Cooper-Norris, C., Longing, S., Perry, G. (May 2022). It's a wild world here in the city: Media representations of urban biodiversity during the COVID-19 pandemic. ICA Preconference. Aix-En-Provence, France/virtual (peer reviewed).
4. **Coman, I.A.** (September 2022). Romanian COVID-19 Digital Communication: A Failure Never-Ending Story. Part of the Panel Disinformation, counter-audiences, and vaccination: COVID-19 crisis communication and adversarial ideologies in social media. European Public Relations Education and Research Association (EUPRERA), Vienna, Austria (notes - I presented online; invited to be part of the panel, and then the panel proposal was peer reviewed).
5. **Coman, I.A.** (April 2022). When virality helps: pro-active doctors on social media – the American experience. Part of the course/workshop for doctors - "Medical Communication." Conference of the College of Doctors from the Municipality of Bucharest CMB (10th Edition). (invited).
6. **Coman, I.A.**, Swed, O., Dang, T., Sreepada, N., Baza, U. (March 2022). What's in an account? Identifying patterns in real news versus fake news Twitter accounts. AEJMC Midwinter. (peer reviewed)
7. Tsai, J., **Coman, I.A.**, Yuan, S. (May 2022). Testing the Impact of Attributions of Solution Responsibility, Issue Identification and Advocacy Fit on Audience Responses to CSA efforts. ICA, Paris, France (peer reviewed)
8. Xu, S., **Coman, I.A.**, Yamamoto, M. (May 2022). Exposure Effects or Confirmation Bias?: Examining Reciprocal Dynamics of Misinformation, Misperceptions, and Attitudes toward COVID-19 Vaccines. ICA (peer reviewed)
9. Gearhart, S., **Coman, I.A.**, Moe, A. (August 2022). Hostile Media Bias in Vaccine News: The Influence of Facebook Comments & Topic on Perceptions. AEJMC, Detroit, MI. (peer reviewed)
10. **Coman, I.A.** (August 2022). *Building an audience-centric framework of situational corporate social advocacy strategy: A mixed-method approach*. [presentation on grant research insights]. Co-

presenters: Jiun-Yi Tsai; Shupeiy Yuan. Page Center Research Roundtable, Session #2 - Corporate Social Advocacy. Pre-AEJMC. Detroit, MI. (Invited Presenter).

11. **Coman, I.A.** (June 2022). *From greenwashing to saving the planet: An exploration of how mainstream, Hispanic and Black media and their public spheres portray and judge organizations' environmental sustainability risk communication and (in)actions.* [presentation on grant research plan and direction]. Co-Presenter: Gabriel Partida Dominguez. Page Center Research Roundtable. Virtual. (Invited Presenter).
12. **Coman, I.A.** (August 2022). *PRD Doug Newsom, Public Relations History, Race & Public Relations Awards and DEI Papers.* AEJMC, Detroit, MI. (Invited Discussant)
13. **Coman, I.A.** (April 2022). PRD virtual mentorship panel. (Invited panelist).
14. **Coman, I.A.** (March 2022). *User engagement with online content.* AEJMC Midwinter, Norman, OK. (Invited Moderator & Discussant)
15. **Coman, I.A.** (March 2022). *The role of social media on audience behavior.* AEJMC Midwinter, Norman, OK. (Invited Moderator & Discussant)

Grants:

Date Submitted	Cayuse Proposal No.	Source	Proposal Total	Investigator role % Credit	Investigator Total	Status
5/2022	22-0491	Page/Johnson Legacy Scholar	\$5,000	Lead PI 100%	\$5,000	Funded/Awarded
4/2022	22-0504	Page/Johnson Legacy Scholar	\$5,000	Co-PI	\$5,000	Funded/Awarded

Award:

1. Awards 2022 - TTU College of Media & Communication Billy I. Ross Faculty Achievement

Culberson, John

Publications:

1. Selman A, Burns S, Reddy AP, **Culberson J**, Reddy PH. The Role of Obesity and Diabetes in Dementia. *Int J Mol Sci.* 2022 Aug 17;23(16):9267. doi: 10.3390/ijms23169267. PMID: 36012526; PMCID: PMC9408882.
2. George M, Tharakan M, **Culberson J**, Reddy AP, Reddy PH. Role of Nrf2 in aging, Alzheimer's and other neurodegenerative diseases. *Ageing Res Rev.* 2022 Dec;82:101756. doi: 10.1016/j.arr.2022.101756. Epub 2022 Oct 13. PMID: 36243357.
3. Rawat P, Sehar U, Bisht J, Selman A, **Culberson J**, Reddy PH. Phosphorylated Tau in Alzheimer's Disease and Other Tauopathies. *Int J Mol Sci.* 2022 Oct 25;23(21):12841. doi: 10.3390/ijms232112841. PMID: 36361631; PMCID: PMC9654278.
4. Eshak N, Abdelnabi M, Benjanuwattra J, Ismail A, Leelaviwat N, Elharabi Z, **Culberson J**. Refractory Shock Secondary to Denosumab-induced Severe Hypocalcaemia. *Eur J Case Rep Intern Med.* 2022 Dec 23;9(12):003706. doi: 10.12890/2022_003706. PMID: 36632534; PMCID: PMC9829022.
5. Sehar U, Rawat P, Choudhury M, Boles A, **Culberson J**, Khan H, Malhotra K, Basu T, and Reddy H. Comprehensive Understanding of Hispanic Caregivers: Focus on Innovative Methods and Validations. *Journal of Alzheimer's Disease Reports.* 2022 December, In Press.

Abstracts:

1. American Geriatrics Society Annual Scientific Meeting. Ashcraft A, Owen D, **Culberson J**. Technology Guided Assessment for Urinary Tract Infection: Creating a Common Interprofessional Language. *J Am Geriatr Soc* 2022 April;70(Suppl 1): S66

- American Geriatrics Society Annual Scientific Meeting. Ashcraft A, Owen D, **Culberson J**, and Song H. Communication and Workflow on a Typical Day in NH Versus a Change in Resident Condition. *Innovation in Aging* 2022, Vol 6(S1);700-701.

Dennis, Jeff

Publications:

- Chen JN, **Dennis JA**, St John JA, Shen CL. Self-Reported Patient Compliance With Physician Advised Lifestyle Behavior Changes Among Adults With Musculoskeletal Conditions. *Front Public Health*. 2022 Feb 24;10:821150. doi: 10.3389/fpubh.2022.821150. PMID: 35284362; PMCID: PMC8907563.

Dufour, Jannette

*Collaboration with CEIH member

Publications:

- *Washburn RL, Hibler T, Thompson LA, Kaur G, **Dufour JM**. 2022 Therapeutic application of Sertoli cells for treatment of various diseases. *Seminars in Cell and Developmental Biology* 121: 10-23. doi: 10.1016/j.semcdb.2021.04.007.
- *Washburn RL, Hibler T, Kaur G, **Dufour JM**. 2022 Sertoli cell immune regulation: a double-edged sword. *Frontiers in Immunology* 13:913502. doi: 10.3389/fimmu.2022.913502
- *Wang R, Santos JM, **Dufour JM**, Stephens E, Miranda JM, Washburn RL, Hibler T, Kaur G, Lin D, Shen CL. 2022 Ginger root extract improves GI health in diabetic rats via improving intestinal integrity and mitochondrial function. *Nutrients*. Oct 19;14(20):4384. doi: 10.3390/nu14204384.
- *Washburn RL, Kaur G, **Dufour JM**. 2022 Mouse Sertoli cells inhibit humoral-based immunity. *International Journal of Molecular Sciences*. 2022 Oct 23;23(21):12760. doi: 10.3390/ijms232112760
- Dufour JM**. 2022 What are the multiple roles of the Sertoli cell? Supporting spermatogenesis and immune regulation. *Handbook of Andrology, American Society of Andrology* (in press)
- *Washburn RL, Hibler T, Kaur G, Sabu-Kurian A, Landefeld A, **Dufour JM**. 2022 Immunoregulatory Sertoli cell allografts engineered to express human insulin survive humoral-mediated rejection. *International Journal of Molecular Sciences*. 2022 Dec 14;23(24):15894. doi: 10.3390/ijms232415894.
- *Shen CL, **Dufour JM**, Miranda JM, Kaur G, Chung E, Ramalingam L, Moustaid-Moussa N, Cao JJ. Effect of dietary geranylgeraniol and green tea polyphenols on glucose homeostasis, bone turnover biomarkers and bone microstructure in obese mice. *International Journal of Molecular Sciences* (in press)

Abstracts:

- Jansen M, Pressley TA, Bobulescu IA, Villalobos A, **Dufour JM**. Interactive virtual small group sessions using Zoom breakout rooms with Google Slides. *STFM 2022 Conference on Medical Student Education*. (San Antonio, Texas, January 27-30, 2022)
- Washburn RL, Kaur G, Chilton B, Reilly B, **Dufour JM**. Seq'ing the Sertoli cell complement inhibitory signature: Paving the pathway to prolong transplant survival. *Innate Immunity: Complement and Beyond, Keystone Symposia*, (Snowbird, UT, April, 3-6, 2022)
- Jansen M, Pressley TA, Bobulescu IA, Villalobos A, **Dufour JM**. Design of virtual team-based learning sessions. *2022 SGEA Virtual Regional Meeting Finding Creativity for Complex Challenges* (March 28-29, 2022)
- Taylor H, Kaur G, **Dufour JM**. Tregs: The Sertoli cell's secret weapon in transplant survival. *Annual Meeting for the American Association of Immunologists. Immunology2022* (Portland, OR May 6-10, 2022).
- Washburn RL, Kaur G, Chilton B, Reilly B, **Dufour JM**. Seeking the Sertoli cell complement inhibitory signature to prolong transplant survival. *Annual Meeting for the American Association of Immunologists. Immunology2022* (Portland, OR May 6-10, 2022).
- Dufour JM**, Washburn RL, Taylor H, Kaur G. Immunosuppressive functions of Sertoli cells. *Male Reproductive Immunology. American Society for Reproductive Immunology*. (Nashville, TN, May 22-26, 2022).

- Hussain S, McCabe P, Lee V, Hewetson A, Webster D, **Dufour JM**, Schneider B, Kaur G. Highlighting key elements of the pre-med program at TTUHSC that prepares the students to be successful in Medical school. Virtual Pathway Programs and Bridges conference. (July 21, 2022).
- Anna Sabu-Kurian, Hibler H, Washburn RL, Boothe K, Kaur G, **Dufour JM**. The Role of Macrophages in Sertoli Cell Transplant Survival Without the Use of Immunosuppressive Drugs. American College of Surgeons Clinical Congress 2022. (San Diego, CA October 16-20, 2022, accepted)

Presentations:

- Immunosuppressive functions of Sertoli cells. Male Reproductive Immunology. American Society for Reproductive Immunology. (Nashville, TN, May 22-26, 2022).
- The Sertoli cell immune microenvironment. "Immune Function in Reproductive Biology" 2022 Mammalian Reproduction, Gordon Research Conference, Mount Snow, West Dover, Vermont (Moved due to COVID-19 from August 2020 to August 14-19, 2022)

Grant Awards

- CH Foundation Seed Grant, "The role of TGF-Beta and retinoic acid in Sertoli cell induction of Tregs." (\$72,400, 1/2022-12/2022). Dufour (Principal Investigator), Kaur (Co- Investigator)
- Research and Extension Experiences for Undergraduates, Agriculture and Food Research Initiative, (NIFA, USDA), "Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program." (\$500,000, 5/2021 to 4/2026). Dufour (Collaborating Mentor), Moustaid-Moussa (Director)

Grants Submitted

- NIH R01 September 1, 2022 - August 31, 2027, Dufour JM (Principal Investigator), Kaur G (Co-Investigator), Sertoli cell inhibition of the complement system: a path to improve xenograft survival. \$1,250,000 (Direct Cost), \$ 1,912,500 (Total Amount)
- NIH R01 April 1, 2023 - March 31, 2028, Dufour JM (Principal Investigator), Kaur G (Co-Investigator), Creation of a tolerogenic environment to protect pancreatic islets from autoimmune diabetes. \$1,250,000 (Direct Cost), \$ 1,912,500 (Total Amount)
- NIH Faculty Institutional Recruitment for Sustainable Transformation (FIRST) Program Moustaid-Moussa N (Director) Dufour JM (mentor) Recruiting and Mentoring Partnerships for University Progress (RAMP UP).
- USDA NIFA AFRI Sustainable Agricultural Systems June 1, 2023 – May 31, 2028 Moustaid-Moussa N (Project Director), Dufour JM (SubPI), GRow and EAT Leafy GREENS (GREAT GREENS): Sustainable Production of Leafy Greens for Health and Nutrition Security. \$10 million total, \$366,621 Sub contract
- NIH NCCIH R01 June 1, 2023 – May 31, 2028 Moustaid-Moussa N (Principal Investigator), Dufour JM (SubPI), Protective Metabolic Effects of Omega-3 Fatty Acids, Independent of UCP1. \$184,546 Sub contract.
- JDRF Strategic Research Agreement, Realignment of Established Targets and Mechanisms for Delaying or Reversing T1D, Dufour JM (Principal Investigator), Bhutia Y (Co-Investigator), Ganapathy V (Co-Investigator). Carbidopa, a novel immune modulator to prevent or reverse type 1 diabetes. \$750,000

Figuroa, Arturo

Publications:

- Maharaj A, Fischer SM, Dillon KN, Kang Y, Martinez MA, **Figuroa A**. Effects of L-citrulline supplementation on endothelial function and blood pressure in hypertensive postmenopausal women. *Nutrients* 2022; 14(20):4396.
- Kang Y, Maharaj A, Dillon KN, Fischer SM, **Figuroa A**. Menopause influences aortic pulse pressure and pressure wave responses to metaboreflex activation in women. *Menopause* 29(12): 1423-1429, 2022.

- Barzanjeh SP, Pescatello LS, **Figueroa A**, Ahmadizad S. The effects of alpha-Glycerolphosphorylcholine on heart rate variability and hemodynamic variables following sprint interval exercise in overweight and obese women. *Nutrients* 2022; 14(19):3970.
- Volino-Souza M, de Oliveira GV, Conte-Junior CA, **Figueroa A**, Alvares TS. Current Evidence of Watermelon (*Citrullus lanatus*) Ingestion on Vascular Health: A Food Science and Technology Perspective. *Nutrients*. 2022; 14(14):2913. <https://doi.org/10.3390/nu14142913>.
- Jaime SJ, Nagel J, Maharaj A, Fischer SM, Schwab E, Martinson C, Radtke K, Mikat RP, **Figueroa A**. L-Citrulline supplementation attenuates aortic pulse pressure and wave reflection responses to cold stress in older adults. *Exp Gerontol* 2022; 159:111685.
- Maharaj A, Fischer SM, Dillon KN, Kang Y, Martinez MA, **Figueroa A**. Acute citrulline bunts aortic systolic pressure during exercise and sympathoactivation in hypertensive postmenopausal women. *Med Sci Sports Exerc.* 54(5):761-768, 2022.
- Mason J, Tenenbaum GT, Jaime SJ, Roque N, Maharaj A, **Figueroa A**. Arterial Stiffness and Cardiorespiratory Fitness are Associated with Cognitive Function in Older Adults. *Behavioral Medicine.* 48(1):54-65, 2022.
- Shiraseb F, Asbaghi O, Bagheri R, Wong A, **Figueroa A**, Mirzaei K. The effect of L-arginine supplementation on blood pressure in adults: A systematic review and dose-response meta-analysis of randomized clinical trials. *Adv Nutr* 13 (4): 1226-1242, 2022.

Abstracts:

- Kang Y, Maharaj A, Dillon KN, Fischer SM, **Figueroa A**. Impact of Age on Aortic Pressure and Pressure Waves Responses to Metaboreflex Activation in Women. 2022 ACSM Annual Meeting and World Congresses.
- Dillon, K.N., Maharaj, A., Fischer, S. M., Kang, Y., Martinez, M. A., **Figueroa, A**. Antihypertensive Medication Attenuates Aortic Blood Pressure Responses to Metaboreflex Activation in Postmenopausal Women. 2022 ACSM Annual Meeting and World Congresses.

Galyean, Shannon

Publications:

- Galyean S**, Syn D, Subih HS, Boylan M. Improving vitamin D status in bariatric surgery subjects with monthly high-dose ergocalciferol. *Int J Vitam Nutr Res.* 2022 Mar;92(2):109-117. doi: 10.1024/0300-9831/a000728. Epub 2021 Sep 15. PMID: 34521264.
- Salas-Groves E, **Galyean S**, Alcorn M, Childress A. Behavior Change Effectiveness Using Nutrition Apps in People With Chronic Diseases: Scoping Review. *JMIR Mhealth Uhealth.* 2023 Jan 13;11:e41235. doi: 10.2196/41235. PMID: 36637888; PMCID: PMC9883741.

Presentation:

- Galyean, S. (September, 2022). What's Cooking? Healthy Aging Lecture Series. (Stand-Up Presentation) Lean beef consumption among older adults can improve muscle quality.

Grants:

- "Actions of dietary tocotrienols on obesity: ARN supplemental fund". American River Nutrition, Inc., Hadley, MA. **Shen CL (PI, 3%)**. The goal of study is to test the hypothesis that tocotrienol supplementation improve lipid profiles and modify endocannabinoid and oxylipins in obese postmenopausal women. \$70,000. 11/1/2018-10/31/2023.
- American Society for Nutrition Foundation Status: Active. Budget: \$10,000. Title: Increasing Vegetable Intake Using Monosodium Glutamate: A Reduced-Effort Intervention. Role on project Principal Investigator. Dates of entire project: 09/01/2022-12/31/2023. Specific aims of project: To investigate a reduced-effort intervention to increase vegetable intake with MSG as a sodium lowering approach while maintaining acceptability.
- National Science Foundation Status: Active (Data collection). Budget: \$50,000. Title: I-Corps: A virtual culinary medicine software program for patients with chronic disease. Role on project Principal Investigator.

Investigator. Dates of entire project: 04/01/2022-09/30/2023. Specific aims of project: To conduct customer discovery and develop a solution using a virtual culinary medicine program (eCulinary Medicine, eCM) for patients with chronic disease through electronic platforms to create new opportunities for nutritional and disease management.'

4. Texas Tech University President's Innovation Startup Award. Date submitted: 2022. Funded amount: \$ 25,000.
5. Texas Tech University Human Sciences Supplemental Funding. Date submitted: 2022. Funded amount: \$ 16,000
6. Texas Tech University Innovation Hub at Research Park Accelerator Program Award. Date submitted: 2022. Funded amount: \$ 25,000
7. Texas Tech University Innovation Hub at Research Park Accelerator Program Award. Date submitted: 2022. Funded amount: \$ 25,000

Garner, Christine

Publications:

1. **Garner CD**, Kendall-Tackett K, Young C, Baker T, Hale TW. Mode of cannabis use and factors related to frequency of cannabis use among breastfeeding mothers: results from an online survey. *Breastfeed Medicine*. 2022 Mar;17(3):269-276. doi: 10.1089/bfm.2021.0151. PubMed PMID: 34870449.

Manuscripts in progress:

2. **Garner CD**. Nutrition in Pregnancy. *Nutrition in Health and Disease*, 13th Edition. Burlington, MA: Jones & Bartlett Learning. Textbook chapter in publication.
3. Regalado D, Connolly M, Krutsch K, Stark A, **Garner CD**. Psychiatric Medication Use among Pregnant and Breastfeeding Mothers Who Used Cannabis for Mental Health Concerns: A Cross-Sectional Survey Study. *Women's Health*. Submitted for peer review.
4. Natha C, Baker T, **Garner CD**. Maternal beliefs about cannabis use while pregnant or breastfeeding. Manuscript in progress.
5. **Garner CD**, Setterquist H, Hecox EE, Chan J, McLaurin-Jiang S. Providing breastfeeding care during the COVID-19 pandemic: Experiences of healthcare professionals. Manuscript in progress.

Abstracts:

1. **Garner CD**, Setterquist H, Hecox EE, Chan J, McLaurin-Jiang S. Providing breastfeeding care in a rural community during the COVID-19 pandemic: Experiences of healthcare professionals. *Academy of Breastfeeding Medicine*. Presented as poster. September 2022. Baltimore, MD.
2. **Garner CD**, Setterquist H, Hecox EE, Chan J, McLaurin-Jiang S. Providing Breastfeeding Care in a Rural Community During the COVID-19 Pandemic: Experiences of Healthcare Professionals. *Pediatric Academic Societies Meeting*. Presented as poster. April 2022. Denver, CO.
3. Natha C, Baker T, **Garner CD**. Maternal beliefs about cannabis use while breastfeeding. Annual Research Day for Students, Residents, and Faculty. TTUHSC School of Medicine. April 2022. Amarillo, TX. Second Place Research Poster
4. Regalado D, Connolly M, Baker T, Hale T, **Garner CD**. Pregnant and breastfeeding mothers' use of cannabis and mood disorder medications. Annual Research Day for Students, Residents, and Faculty. TTUHSC School of Medicine. April 2022. Amarillo, TX. Third Place Research Poster

Invited Presentations and Guest Lectures:

1. Social Determinants of Health and Nutrition & Food Insecurity. Invited presentation at P3: Patients, Physicians, & Populations, MS1 Series, TTUHSC. October 17, 2022. Via Zoom in Lubbock, TX.
2. Addressing Food Insecurity to Improve Maternal and Infant Health. Invited presentation at Grand Rounds, Department of Pediatrics, TTUHSC. April 29, 2022. Amarillo, TX.
3. Nutrition in Pregnancy and Disease Risk. Invited presentation at Boston University, Graduate level course: Nutrition in Disease Prevention. February 9, 2022. Via Zoom for Boston, MA.

Grant Awards:

1. Academic Pediatric Association Young Investigator Grant – \$14k (2022)

2. United Way – \$25k (2022)
3. Amarillo Area Foundation Discretionary Grant - \$200k (2022)

Jones, Betsy

Publications:

1. Leong SL, Gillespie C, **Jones B**, Fancher T, Coe CL, Dodson L, Hunsaker M, Thompson BM, Dempsey A, Pallay R, Crump W, Cangiarella J. Accelerated 3-Year MD Pathway Programs: Graduates' Perspectives on Education Quality, the Learning Environment, Residency Readiness, Debt, Burnout, and Career Plans. *Acad Med.* 2022 Feb 1;97(2):254-261. doi: 10.1097/ACM.0000000000004332. PMID: 34380931; PMCID: PMC8781222.

Jung, Kwanghee

Publications:

1. Eko, S.* & **Jung, K.** (2022). Instructor Perceptions of Technology Integration in the Emerging Corequisite Model of Developmental Mathematics, *MathAMATYC Educator*, 13, 1-11.
2. Ortiz-Del-Valle, B. L., Gupta, V., Chong, J., **Jung, K.** & Dallas, T. (2022). User Authentication Recognition Process Using Long Short-Term Memory Model. *Multimodal Technologies and Interaction*, 6, 107.
3. Ortiz-Del-Valle, B. L. Chong, J. Shoushan, M. Gupta, V., **Jung, K.** & Dallas, T (2022). A Biometric Authentication Technique Using Smartphone Fingertip Photoplethysmography Signals. *IEEE Sensors Journal*, 14, 14237-14249.

Grants:

1. Innovating and advancing in STEM education, Wahi (PI), ED P031C210026, 10/01/2021–9/30/2026, \$4,783,323
2. Speech intervention via telepractice for children with repaired cleft palate: Randomized Controlled Trial and Assessment of Speech Production and Perception Skills, Lee (PI), NIH 1UG3DE030869-01. 09/1/2021–8/31/2022, \$399,247

Award:

1. The 2021 winner of the Quantitative Methods Research Award, The Canadian Psychological Association, 2022

Kahathuduwa, Chanaka

Publications:

1. Pan S, Ali K, **Kahathuduwa C**, Baronía R, Ibrahim Y. Meta-Analysis of Positive Psychology Interventions on the Treatment of Depression. *Cureus.* 2022 Feb 5;14(2):e21933. doi: 10.7759/cureus.21933. PMID: 35273874; PMCID: PMC8901085.
2. Menikdiwela KR, **Kahathuduwa C**, Bolner ML, Rahman RL, Moustaid-Moussa N. Association between Obesity, Race or Ethnicity, and Luminal Subtypes of Breast Cancer. *Biomedicine.* 2022 Nov 15;10(11):2931. doi: 10.3390/biomedicine10112931. PMID: 36428500; PMCID: PMC9687751.
3. Dassanayake TL, **Kahathuduwa CN**, Weerasinghe VS. L-theanine improves neurophysiological measures of attention in a dose-dependent manner: a double-blind, placebo-controlled, crossover study. *Nutr Neurosci.* 2022 Apr;25(4):698-708. doi: 10.1080/1028415X.2020.1804098. Epub 2020 Aug 11. PMID: 32777998.
4. Blume J, **Kahathuduwa C**, Mastergeorge A. Intrinsic Structural Connectivity of the Default Mode Network and Behavioral Correlates of Executive Function and Social Skills in Youth with Autism Spectrum Disorders. *J Autism Dev Disord.* 2022 Feb 9. doi: 10.1007/s10803-022-05460-y. Epub ahead of print. PMID: 35141816.
5. Dhanasekara CS, Marschke B, Morris E, **Kahathuduwa CN**, Dissanaiké S. Regional Variations in Microbiology and Outcomes of Necrotizing Soft Tissue Infections: A Systematic Review and Meta-Analysis. *Surg Infect (Larchmt).* 2022 Sep;23(7):634-644. doi: 10.1089/sur.2022.142. Epub 2022 Jul 29. PMID: 35904966.

- Dassanayake TL, Wijesundara D, **Kahathuduwa CN**, Weerasinghe VS. Dose-response effect of L-theanine on psychomotor speed, sustained attention, and inhibitory control: a double-blind, placebo-controlled, crossover study. *Nutr Neurosci*. 2022 Oct 20:1-9. doi: 10.1080/1028415X.2022.2136884. Epub ahead of print. PMID: 36263942.
- Dhanasekara CS, Ancona D, Cortes L, Hu A, Rimu AH, Robohm-Leavitt C, Payne D, Wakefield SM, Mastergeorge AM, **Kahathuduwa CN**. Association Between Autism Spectrum Disorders and Cardiometabolic Diseases: A Systematic Review and Meta-analysis. *JAMA Pediatr*. 2023 Jan 30. doi: 10.1001/jamapediatrics.2022.5629. Epub ahead of print. PMID: 36716018.

Kaur, Gurvinder

Publications:

- *Shen CL, Dufour JM, Miranda JM, **Kaur G**, Chung E, Ramalingam L, Moustaid-Moussa N, Cao JJ. 2023 Effect of dietary geranylgeraniol and green tea polyphenols on glucose homeostasis, bone turnover biomarkers, and bone microstructure in obese mice. *Int J Mol Sci* 24(2): 979, doi: 10.3390/ijms24020979.
- *Washburn RL, **Kaur G**, Dufour JM. 2022 Mouse Sertoli cells inhibit humoral-based immunity. *Int J Mol Sci* 23(21): 12760, doi: 10.3390/ijms232112760.
- *Washburn RL, Hibler T, **Kaur G**, Sabu-Kurian A, Landefeld A, Dufour JM. 2022 Immunoregulatory Sertoli cell allografts engineered to express human insulin survive humoral-mediated rejection. *Int J Mol Sci* 23(24): 15894, doi: 10.3390/ijms232415894.
- *Wang R, Santos JM, Dufour JM, Stephens ER, Miranda JM, Washburn RL, Hibler T, **Kaur G**, Lin D, Shen CL. 2022 Ginger root extract improves GI health in diabetic rats by improving intestinal integrity and mitochondrial function. *Nutrients* 14(20): 4384, doi: 10.3390/nu14204384.
- *Washburn RL, Hibler T, **Kaur G**, Dufour JM. 2022 Sertoli cell immune regulation: A double-edged sword. *Front Immunol* 13: 913502, doi: 10.3389/fimmu.2022.913502

Invited speaker:

- Webster D, Jones B, **Kaur G**, Kruczek C, Brower G, Villalobos A. Engaged learning: Integrating simulations, ultrasound and small group discussions into large-group. TTUHSC-Medical Education Faculty Development Course, (Lubbock, Tx, February 25th 2022).

Presentations:

- Kaur G**, Bishop KN, Webster D, Dufour JM, Schneider B. How a medical education master's program promotes student resiliency and success in medical school. *Anatomy Connected* (Washington DC, March 25-27, 2023). Selected for Platform Presentation.
- Bishop KN, Webster D, **Kaur G**, Villalobos A, Schneider B. Assessing the impact of curricular redesign: Student performance in a foundational anatomy course with added cell biology and histology. *Anatomy Connected* (Washington DC, March 25-27, 2023). Selected for Platform Presentation.
- Dufour JM, Washburn RL, **Kaur G**, Hibler T, Miranda JM, Rodriguez AR, Martinez-Marin D, Sabu-Kurian A, Chilton BS. Immunoprotective Sertoli cells in Transplantation. Session: Women in Andrology Lecture, 48th Annual Conference of American Society of Andrology (Boston, MA, April 19-23, 2023).
- Kaur G**, Brower G, Lee V, Mitchell J, Cook R, Jones B. Integration of Point of Care Ultrasound into Pre-clerkship curriculum and the Family Medicine Accelerated Program. Society of Teachers of Family Medicine (New Orleans, LA, Jan 26-29, 2023). Selected for Lecture Discussion.
- Kaur G**, Webster D, Kruczek C. Effect of pre-clerkship curriculum restructuring and pass-fail grading on student mental wellness. Society of Teachers of Family Medicine (New Orleans, LA, Jan 26-29, 2023).
- Sabu-Kurian A, Hibler H, Washburn RL, Boothe K, **Kaur G**, Dufour JM. The role of macrophages in Sertoli cell transplant survival without the use of immunosuppressive drugs. American College of Surgeons Clinical Congress (San Diego, CA, Oct 16-20, 2022). Selected for Platform Presentation
- Hussain S, McCabe P, Lee V, Hewetson A, Webster D, Dufour JM, Schneider B, **Kaur G**. Highlighting key elements of the pre-med program at TTUHSC that prepares the students to be successful in

Medical School. Pathway Programs & Bridges 1st Annual Conference (Virtual). Selected for Roundtable Discussion

8. **Kaur G**, Bishop K, Schneider B. Highlighting the benefits of cadaveric dissection in the era of digital world. 39th Annual Meeting of the American Association of Clinical Anatomists (Fort Worth, TX, June 13-17, 2022). Selected for Platform Presentation
9. Brower G, Matejka CN, Zeitouni F, Boomer M, **Kaur G**. Benefits of incorporating ultrasound and clinical simulations in medical pre-clerkship curriculum. 39th Annual Meeting of the American Association of Clinical Anatomists (Fort Worth, TX, June 13-17, 2022). Selected for Tech Fair Presentation
10. Zeitouni F, **Kaur G**, Schneider B. Instructional videos improve academic performance and reduce anxiety in learning clinical anatomy. 39th Annual Meeting of the American Association of Clinical Anatomists (Fort Worth, TX, June 13-17, 2022).
11. Webster D, Jones B, **Kaur G**, Kruczek C, Brower G, Villalobos A. Engaged learning: Integrating simulations, ultrasound and small groups into large-group courses. International Association of Medical Science Educators (IAMSE) Meeting-Pre conference workshop (Denver, CO, June 4-7, 2022).
12. Dufour JM, Washburn RL, Taylor H, **Kaur G**. Immunosuppressive functions of Sertoli cells. Male Reproductive Immunology. American Society for Reproductive Immunology (Nashville, TN, May 22-26, 2022).
13. Washburn RL, **Kaur G**, Chilton B, Reilly B, Dufour JM. Seeking the Sertoli cell complement inhibitory signature to prolong transplant survival. Annual Meeting for the American Association of Immunologists. Immunology2022 (Portland, OR, May 6-10, 2022).
14. Taylor H, **Kaur G**, Dufour JM. Tregs: The Sertoli cell's secret weapon in transplant survival. Annual Meeting for the American Association of Immunologists. Immunology2022 (Portland, OR, May 6-10, 2022).
15. Kruczek C, **Kaur G**. Curriculum restructuring at Texas Tech University Health Sciences Center Medical School: Evaluation and lessons learned. Experimental Biology (Philadelphia, April 2-5, 2022).

Lawrence, John

Grants:

1. Transcriptional Dysfunction in Dentate Gyrus Cell Types: Roles of Retinoic Acid Responsive Genes in Protection Against Alzheimer's Disease Pathogenesis. NIH R01 AG071859-01A1. Lawrence (PI). 1/1/2022-12/31/2026. Total costs: \$1,872,220
2. The hippocampal dentate gyrus in aging and Alzheimer's disease: boosting transcription of retinoic acid-sensitive genes through HDAC inhibition and vitamin A supplementation. NIH R01 AG073826-01A1. Lawrence (PI). 8/1/2022-4/30/2027. Total costs: \$3,158,615

Lee, Jaehoon

Publications:

1. Al-hihi, E. M., Gibson, C. A., **Lee, J.**, Mount, R. R., Irani, N., & McGowan, C. (2022). Improving appropriate imaging for non-specific low back pain. *BMJ Open Quality*, 11, e001539.
2. Arensberg, L. C., Kalender-Rich, J., **Lee, J.**, & Gibson, C. A. (2022). Millennials seeking healthcare: Examining the degree to which patients utilize online resources. *Kansas Journal of Medicine*, 15, 347–351.
3. Assimonye, S., **Lee, J.**, Smith, S., Glenn, J., Kennedy, M., & Ramaswamy, M. (in press). Understanding the changing social and health circumstances of women leaving jail: A social bonds analysis. *Women & Criminal Justice*.
4. Backes, J. M., Gibson, C. A., Mount, R. R., & **Lee, J.** (2022). Identifying patient perceptions and attitudes regarding statin-associated diabetes mellitus. *Future Cardiology*, 18(10), 817–828.
5. Binti Mohamad Ismail, F.-N., Chu, S.-Y., Gan, K.-B., Park, H.-R., **Lee, J.**, Barlow, S. M., & A. Razak, R. (2022). Speech performance among healthy Malay female speakers during dual-task and sentence complexity. *Folia Phoniatrica et Logopaedica*, 74, 112–121.

6. Carter, S., Crews, C., **Lee, J.**, Noble, N., & Li, X. (2022). Acceptability of school shooting prevention procedures among parents. *The Journal of Primary Prevention*, 43, 359–374.
7. Carter, S., Noble, N., **Lee, J.**, Li, X., & Crews, C. (in press). Acceptability of active shooter prevention strategies on college and university campuses. *Journal of Prevention*.
8. Chu, S.-Y., Binti Mohamed Rafi, A., **Lee, J.**, Fierro, V., Gan, C.-H., Singh, S.-J., Hersh, D., & Lin, L.-Y. (in press). The relationship between affiliate stigma, stress and quality of life for parents of individuals with cerebral palsy in Malaysia. *Disability and Rehabilitation*.
9. Chu, S.-Y., **Lee, J.**, Wong, W.-Y., Gan, C.-H., Fierro, V., & Hersh, D. (in press). Knowledge mediates attitude in Autism spectrum disorders? Data from Malaysia. *International Journal of Developmental Disabilities*.
10. Chu, S.-Y., Unicomb, R., **Lee, J.**, Cho, K.-S., St. Louis, K. O., & Harrison, E. (2022). Public attitudes toward stuttering in Malaysia. *Journal of Fluency Disorders*, 74, 105942.
11. Froehlich-Grobe, K., **Lee, J.**, Ochoa, C., Lopez, A. M., Sarker, E., Driver, S., Shegog, R., & Lin, S.-J. (2022). Effectiveness and feasibility of the Workout on Wheels Internet Intervention (WOWii) for individuals with spinal cord injury: A randomized controlled trial. *Spinal Cord*, 60, 862–874.
12. Gibson, C. A., Harvey, S. P., Valentine, H., Landfried, L., & **Lee, J.** (2022). Food insecurity and health-related quality of life among SNAP nutrition incentive participants. *Journal of Hunger & Environmental Nutrition*, 17(4), 540–552.
13. Kim, J.-H., **Lee, J.**, Richardson, T. V., Lee, D.-H., McMahon, B. T., Kim, H., & Sametz, R. R. (2022). Psychometric validation of Adapted Inventory of Virtues and Strengths. *Rehabilitation Counseling Bulletin*, 65(4), 322–334.
14. Kim, S.-Y., **Lee, J.**, & Boone, D. (2022). Protective and risk factors at the intersection of chronic pain, depression, anxiety, and somatic amplification: A latent profile approach. *Journal of Pain Research*, 15, 1107–1121.
15. Molina, A. H., Harvey, J., Pitt, K. M., **Lee, J.**, & Barlow, S. M. (2022). Effects of real-time iEMG biofeedback on facial muscle activation patterns in a child with congenital unilateral facial palsy. *Biomedical Journal of Scientific & Technical Research*, 47(1), 38074–38088.
16. Moon, H., Cheon, J., **Lee, J.**, Banda, D. R., Griffin-Shirley, N., & Ajuwon, P. M. (2022). Factors influencing the intention of persons with visual impairment to adopt mobile applications based on the UTAUT model. *Universal Access in the Information Society*, 21(1), 93–107.
17. O'Brien, B., **Lee, J.**, Kim, S., Nandra, G. S., Pannu, P., Swann, A. C., Murphy, N., Tamman, A. J. F., Amareh, D., Lijffijt, M., Averill, L. A., & Mathew, S. J. (2023). Replication of distinct trajectories of antidepressant response to intravenous ketamine. *Journal of Affective Disorders*, 321, 140–146.
18. Oh, H., **Lee, J.**, Patriquin, M. A., Oldham, J. M., & Salas, R. (in press). Reward processing in psychiatric inpatients with depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
19. Pandey, Y., **Lee, J.**, Banda, D., Griffin-Shirley, N., Nguyen, T., & Othun, V. (in press). A survey of mobile app use among university students with visual impairment in India. *British Journal of Visual Impairment*.
20. Park, S., Kim, S., **Lee, J.**, & Heo, B. (2022). Evolving norms: Social media data analysis on parks and greenspaces perception changes before and after the COVID 19 pandemic using a machine learning approach. *Scientific Reports*, 12, 13246
21. Ptomey, L. T., Helsel, B. C., White, D. A., **Lee, J.**, Sherman, J. R., Washburn, R. A., Gorkczyca, A. M., & Donnelly, J. E. (2022). Intrapersonal, interpersonal and environmental correlates of moderate to vigorous physical activity and sedentary time in adolescents with intellectual and developmental disabilities. *Journal of Intellectual Disability Research*, 66(6), 503–516.
22. Ptomey, L. T., **Lee, J.**, White, D. A., Helsel, B. C., Washburn, R. A., & Donnelly, J. E. (2022). Changes in physical activity across a 6-month weight loss intervention in adolescents with intellectual and developmental disabilities. *Journal of Intellectual Disability Research*, 66(6), 545–557.
23. Sandfort E. C., **Lee, J.**, Hozan, M., Greenwood, J., & Barlow, S. M. (2022). Orofacial and digit force dynamics in neurotypical children. *Biomedical Journal Scientific Technical Research*, 44(3), 35478–35490.

24. Salyer, C., **Lee, J.**, Lorvick, J., Comfort, M., Cropsey, K., Smith, S., Emerson, A., & Ramaswamy, M. (2022). Cervical cancer prevention behaviors among criminal-legal involved women from three U.S. cities. *Journal of Women's Health*, 31(4), 533–545.
25. Shen, C.-L., Watkins, B. A., Kahathuduwa, C., Chyu, M.-C., Zabet-Moghaddam, M., Elmassry, M. M., Luk, H.-Y., Brismee, J.-M., Knox, A., **Lee, J.**, Zumwalt, M., Wang, R., Wager, T. D., & Neugebauer, V. (2022). Tai Chi improves brain functional connectivity and plasma lysophosphatidylcholines in postmenopausal women with knee osteoarthritis: An exploratory pilot study. *Frontiers in Medicine*, 8, 775344.
26. Shepard, C. A., Rufino, K. A., **Lee, J.**, Tran, T., Paddock, K., Wu, C., Oldham, J. M., Mathew, S. J., & Patriquin, M. A. (in press). Nighttime sleep quality and daytime sleepiness predicts suicide risk in adults admitted to an inpatient psychiatric hospital. *Behavioral Sleep Medicine*.
27. Smith, P., **Lee, J.**, & Chang, R. (2022). Characterizing competing tensions in Black immigrant literacies: Beyond partial representations of success. *Reading Research Quarterly*, 57(1), 59–90.
28. Yi, M., Wang, J., Flores, R., & **Lee, J.** (2022). Measuring preservice elementary teachers' geometry knowledge for teaching 2-dimensional shapes. *Eurasia Journal of Mathematics, Science and Technology Education*, 18(8), 2137.

Presentations:

1. Gibson, C. A., Gupta, A., Naik, A., Sullivan, D. K., **Lee, J. H.**, Backes, J., Harvey, S., Shaffer, K., Mount, R., American Society for Nutrition, "Using formative research to develop a healthy lifestyle program for recent kidney transplant recipients," Orland, FL. (November 2022).
2. Veronica, F., Chu, S.-Y., Rafi, A., **Lee, J. H.**, Gan, C., Singh, S., Hersh, D., Lin, L.-Y., American Speech-Language-Hearing Association, "We can't die first: The impact on parents caring for children with cerebral palsy," New Orleans, LA. (November 2022).
3. Moon, H., Kim, S., **Lee, J. H.**, Association for Educational Communications and Technology, "Mining Twitter to analyze faculty perceptions of online teaching and learning over time: Challenges and opportunities," Las Vegas, NV. (October 2022).
4. Kim, Y., **Lee, J. H.**, American Educational Research Association, "A Monte Carlo comparison of handling missing covariates in SEM-based meta-analysis," San Diego, CA. (April 2022).
5. Yi, S., Shin, S., **Lee, J. H.**, Siwatu, K., American Educational Research Association, "Development of the College Cultural Fit Scale (CCFS): Predicting college adjustment and achievement," San Diego, CA. (April 2022).
6. **Lee, J. H.**, Kim, S., Anxiety and Depression Association of America, "Person-centered approach of identifying trajectories of patient response to treatment over time: Longitudinal mixture modeling and machine learning," Denver, Colorado. (March 2022).
7. **Lee, J.**, Jung, K., Texas Association for Institutional Research, "Funding and building developmental math and academic support services: Identifying successes and challenges for Hispanic and low-income students," Dallas, TX. (February 2022).
8. Bhusal, A., Jung, K., **Lee, J.**, Texas Association for Institutional Research, "Google Data Studio as an alternative institutional research and reporting tool," Dallas, TX. (February 2022).
9. Jung, K., **Lee, J.**, Li, X., Texas Association for Institutional Research, "Predicting college student purge using a classification tree model," Dallas, TX. (February 2022).

Grant Awards:

1. Localized mHealth approach to boosting COVID-19 testing and vaccine literacy, access, and uptake among women with criminal legal system involvement, Ramaswamy (PI), NIMHD U01MD017415, 01/01/2022–11/30/2026, \$2,458,129, Co-I
2. Innovating and advancing in STEM education, Wahi (PI), ED P031C210026, 10/01/2021–9/30/2026, \$4,783,323, Co-I.
3. Curcumin and retinal amyloid-beta pilot study, Shen (PI), Sabinsa Corporation, 01/01/2022–12/31/2022, \$94,991, Co-I.

4. Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy, Shen (PI), American River Nutrition, 01/01/2022–12/31/2023, \$266,294, Co-I.
5. Oral diadochokinesis among Malaysian-Malay speakers: A comparative study of neurotypical adults and individuals with Parkinson's disease, Chu (PI), Universiti Kebangsaan Malaysia, 10/01/2022–09/31/2023, \$22,000, Co-I.

Grant Applications: 20+ applications to federal and state agencies

Lee, Sueann

Publications:

1. Liu, Y., & **Lee, S.A.S.** (2022). A study adopting a motor-based hierarchically structured intervention for remediating nasal fricatives in children with normal velopharyngeal function requires a better experimental design (Commentary paper). *Evidence-Based Communication Assessment and Intervention*, 16, 29-34.
2. **Lee, S.A.S.** (2022). The feasibility of telepractice intervention using animated illustrations for treating prepositions: A pilot study. *Online Journal of Otolaryngology and Rhinology*, 5, 1-8.
3. Becker, B., Harvey, B., **Lee, S.A.S.**, & Demke, J. (2022). Intelligence of children with repaired cleft palate: A retrospective chart review study. *Online Journal of Otolaryngology and Rhinology*, 5,
4. Liu, Y., **Lee, S.A.S.** & Chen, W. (2022). The correlation between perceptual ratings and nasalance scores in individuals with oral-nasal balance disorders: A systematic review. *Journal of Speech, Language, Hearing Research*, 65, 2215-2234.

Invited workshop:

1. **Lee, S.A.S.** (2022). Aural Rehabilitation. 6 Hour workshop at Hue University of Medicine and Pharmacy, Hue, Vietnam, December, 2022
2. **Lee, S.A.S.** (2022). Speech Sound Disorders: Assessment & Intervention. 6 Hour workshop at Medical University, Ho Chi Minh City, Vietnam, December 2022
3. **Lee, S.A.S.** (2022). Introduction to Communication Science and Disorders. 3 Hour workshop at National University of Health Science, Vientiane, Laos, December, 2022
4. **Lee, S.A.S.** (2022). Speech Sound Disorders: Assessment & Intervention. 6 Hour workshop at Hanoi Medical University, Department of Rehabilitation, Hanoi, Vietnam, December, 2022

Presentations:

Oral:

1. **Lee, S.A.S.** (2022). Introduction of ultrasound technology in speech intervention for children with cleft palate. A paper accepted for oral presentation at American Craniofacial Association's 78th Annual Meeting, Fort Worth, TX.
2. **Lee, S.A.S.**, Jakielski, K., Seung, H.K., & Koul, R. (2022). Global outreach experiences as a Fulbright US Scholar. 1 Hour seminar at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA
3. **Lee, S.A.S.** (2022). Benefit of animated illustrations for children's visual attention and word learning: An eye-tracking study. 30-minute technical oral presentation at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA
4. Byrd, A., **Lee, S.A.S.**, Matthews, J., Henman, K., Write, M., Fannin, D. (2022). Reframing professionalism in CSD to address diversity, equity, inclusion and access. 1-hour seminar at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA.

Posters:

5. Liu, L*, **Lee, S.A.S.**, Chen, W. (2022). The correlation between perceptual ratings and nasalance scores in resonance disorders: A systematic review. A paper accepted for oral presentation at American Craniofacial Association's 78th Annual Meeting, Fort Worth, TX.

6. **Lee, S.A.S.**, Ortega, F., Slayton, K., & Marley, M. (2022). The effect of animated stimuli and executive function on online language learning. A poster presentation at the Annual Convention of the American Speech-Language-Hearing Association, New Orleans, LA

Grant:

1. 2021-2027. \$3,199,247.00. National Institute of Dental and Craniofacial Research (NIDCR), UG3-UH3 Grant. Project title: Speech intervention via telepractice for children with repaired cleft palate: Randomized controlled trial and assessment of speech production and perception skills. Role: Principle Investigator

Luk, HuiYing

Publications:

1. Jiwan, NC., Appell, C., Wang, Rui., Shen, CL., **Luk, HY.** (2022). Geranylgeraniol Supplementation Mitigates Soleus Muscle Atrophy via Changes in Mitochondrial Quality in Diabetic Rats, *In Vivo*, 36(6):2638-2649, DOI: 10.21873/invivo.12998. Epub 2022 Oct 29
2. Al Masud, A. **Luk, HY.**, Shen, CL., Chyu, MC. (2022). Impact of Local Vibration Training on Neuromuscular Activity, Muscle Cell, and Muscle Strength: a Review. *Critical Reviews in Biomedical Engineering*; DOI: 10.1615/CritRevBiomedEng.2022041625
3. **Luk, HY.**, Jiwan, NC., Appell, CR., Levitt, DE., Vingren, JL. (2022). Sex Specific Mitochondrial Dynamics and Mitophagy Response to Muscle Damage, *Physiological Reports*, 10(10), DOI: 10.14814/phy2.15230.
4. Shen, CL., Watkins, BA., Kahathuduwa, C., Chyu, MC., Zabet-Moghaddam, M., Elmassry, MM., **Luk, HY.**, Brismee, JM., Knox, A., Lee, J., Zumwalt, M., Wang, R., Wager, TD., Neugebauer, V. (2022). Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women with Knee Osteoarthritis: An Exploratory Pilot. *Frontiers in Medicine*, 8:3775344, doi: 10.3389/fmed.2021.775344
5. Vingren, JL., Boyett, JC., Lee, EC., Levitt, DE., **Luk, HY.**, McDermott, BP., Munoz, CX., Ganio, MS., Armstrong, LE., Hill, DW (2022). Effect of Ibuprofen on Circulating Cytokine and Leukocyte Subset Responses to 164-km Road Cycling Event in a Hot Environment. *Research Quarterly for Exercise and Sport*; <https://doi.org/10.1080/02701367.2021.1981539>

Grants:

National Strength and Conditioning Association, Young Investigator. Title: The Effect of Dehydration on Sleep and Anabolism

Lyford, Conrad

Publications:

1. Gong, Zijan and **Conrad Lyford**. "Using Social Media for More Engaged Users and Enhanced Health Communication in Diabetes Care," *American Journal of Lifestyle Medicine*, January 2022. doi:10.1177/15598276211064832
2. Sienso, Gifty, **Conrad Lyford**, Wilna Oldewage-Theron. "Using instrumental variables to establish the relationship between household production diversity and household dietary diversity in northern Ghana," October 2022, *African Journal of Food, Agriculture, Nutrition and Development* 22(112):21036-21055 DOI: 10.18697/ajfand.112.20255

Book chapter:

1. Antwi, Kwaku, **Conrad Lyford** and Patricia Solis." Rural Household Food Insecurity and Child Malnutrition in Northern Ghana," chapter 4 in *Open Mapping towards Sustainable Goals*, pp. 47-56., Springer, 2022. https://link.springer.com/chapter/10.1007/978-3-031-05182-1_4

Presentations:

1. Uche Samuel, Janani Rajbhandari-Thapa and **Conrad Lyford**. “Medicaid Expansion and its Impacts on Low-Income Adults Health Care Access by Chronic Disease Status” Selected paper presented at the Southern Agricultural Economics Association (SAEA) 54th Annual Meeting in New Orleans, LA, February 12-15, 2022.

Grants:

1. “OIA 2022 Mandela Washington Fellowship”, January 2022 to September 2022, Department of State, Bureau of Educational and Cultural Affairs (\$147,950, my share \$49,317)
2. “Bridging the Gap Towards Successful Vegetable Introduction: Proof in Concept for Early Head Start”, Texas Tech University, 2022 Engaged Scholarship Collaboration Seed Grant (\$6,000, my share \$2,000)

Award:

Fulbright Scholar, University for Development Studies, Tamale, Ghana, August 2022 – January 2023

Moustaid-Moussa, Naimi

Publications:

1. Coates PM, Allen LH, Belury M, Schalinske K, Booth SL, Stull A, Lyle B, Bailey RL, Krebs N, McBurney MI, **Moustaid-Moussa N**, West KP, MacFarlane A. A New Chapter for the American Society for Nutrition's Journal Portfolio. *J Nutr*. 2022 Apr 1;152(4):1175-1176. doi: 10.1093/jn/nxab371. PMID: 35142826; PMCID: PMC8971002.
2. Khan F, Khan H, Khan A, Yamasaki M, **Moustaid-Moussa N**, Al-Harrasi A, Rahman SM. Autophagy in adipogenesis: Molecular mechanisms and regulation by bioactive compounds. *Biomed Pharmacother*. 2022 Nov;155:113715. doi: 10.1016/j.biopha.2022.113715. Epub 2022 Sep 21. PMID: 36152415.
3. Mubtasim N, **Moustaid-Moussa N**, Gollahon L. The Complex Biology of the Obesity-Induced, Metastasis-Promoting Tumor Microenvironment in Breast Cancer. *Int J Mol Sci*. 2022 Feb 24;23(5):2480. doi: 10.3390/ijms23052480. PMID: 35269622; PMCID: PMC8910079.
4. Islam T, Albracht-Schulte K, Ramalingam L, Schlabritz-Lutsevich N, Park OH, Zabet-Moghaddam M, Kalupahana NS, **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 Nov 26;115:109242. doi: 10.1016/j.jnutbio.2022.109242. Epub ahead of print. PMID: 36442715.
5. Chen YT, Ramalingam L, Garcia CR, Ding Z, Wu J, **Moustaid-Moussa N**, Li W. Engineering and Characterization of a Biomimetic Microchip for Differentiating Mouse Adipocytes in a 3D Microenvironment. *Pharm Res*. 2022 Feb;39(2):329-340. doi: 10.1007/s11095-022-03195-0. Epub 2022 Feb 15. PMID: 35166994.
6. Rodriguez-Irizarry VJ, Schneider AC, Ahle D, Smith JM, Suarez-Martinez EB, Salazar EA, McDaniel Mims B, Rasha F, Moussa H, **Moustaid-Moussa N**, Pruitt K, Fonseca M, Henriquez M, Clauss MA, Grisham MB, Almodovar S. Mice with humanized immune system as novel models to study HIV-associated pulmonary hypertension. *Front Immunol*. 2022 Aug 5;13:936164. doi: 10.3389/fimmu.2022.936164. PMID: 35990658; PMCID: PMC9390008.
7. Menikdiwela KR, Kahathuduwa C, Bolner ML, Rahman RL, **Moustaid-Moussa N**. Association between Obesity, Race or Ethnicity, and Luminal Subtypes of Breast Cancer. *Biomedicines*. 2022 Nov 15;10(11):2931. doi: 10.3390/biomedicines10112931. PMID: 36428500; PMCID: PMC9687751.
8. Menikdiwela KR, Guimarães JPT, Scoggin S, Gollahon LS, **Moustaid-Moussa N**. Dietary pH Enhancement Improves Metabolic Outcomes in Diet-Induced Obese Male and Female Mice: Effects of Beef vs. Casein Proteins. *Nutrients*. 2022 Jun 22;14(13):2583. doi: 10.3390/nu14132583. PMID: 35807769; PMCID: PMC9268221.
9. Regmi A, Singh S, **Moustaid-Moussa N**, Coldren C, Simpson C. The Negative Effects of High Rates of Biochar on Violas Can Be Counteracted with Fertilizer. *Plants (Basel)*. 2022 Feb 11;11(4):491. doi: 10.3390/plants11040491. PMID: 35214822; PMCID: PMC8875082.
10. Guimarães JPT, Menikdiwela KR, Ramalho T, Queiroz LAD, Kalupahana NS, Jancar S, Ramalingam L, Martins JO, **Moustaid-Moussa N**. Effects of captopril on glucose metabolism and autophagy in liver

and muscle from mice with type 1 diabetes and diet-induced obesity. *Biochim Biophys Acta Mol Basis Dis.* 2022 Oct 1;1868(10):166477. doi: 10.1016/j.bbadis.2022.166477. Epub 2022 Jun 30. PMID: 35780942.

- Schuster C, Wolpert N, **Moustaid-Moussa N**, Gollahon LS. Combinatorial Effects of the Natural Products Arctigenin, Chlorogenic Acid, and Cinnamaldehyde Commit Oxidation Assassination on Breast Cancer Cells. *Antioxidants (Basel).* 2022 Mar 20;11(3):591. doi: 10.3390/antiox11030591. PMID: 35326241; PMCID: PMC8945099.
- Soto PL, Ramalingam L, George B, **Moustaid-Moussa N**. Long-term effects of adolescent exposure to olanzapine in C57BL/6 J mice and the impact of dietary fish oil supplementation. *Psychopharmacology (Berl).* 2022 Oct;239(10):3117-3131. doi: 10.1007/s00213-022-06193-7. Epub 2022 Jul 27. PMID: 35896725.
- Camfield E, Bowman A, Choi J, Gwinn K, Labbe N, Rajan K, Ownley B, **Moustaid-Moussa N**, D'Souza DH. Switchgrass extractives to mitigate *Escherichia coli* O157:H7 and *Salmonella enterica* serovar Typhimurium contamination of romaine lettuce at pre- and postharvest. *J Food Sci.* 2022 Aug;87(8):3620-3631. doi: 10.1111/1750-3841.16249. Epub 2022 Jul 14. PMID: 35836257.
- Shen CL, Dufour JM, Miranda JM, Kaur G, Chung E, Ramalingam L, **Moustaid-Moussa N**, Cao JJ. Effect of Dietary Geranylgeraniol and Green Tea Polyphenols on Glucose Homeostasis, Bone Turnover Biomarkers, and Bone Microstructure in Obese Mice. *Int J Mol Sci.* 2023 Jan 4;24(2):979. doi: 10.3390/ijms24020979. PMID: 36674494; PMCID: PMC9866936.

Grant Awards

- Co-I USDA NIFA AFRI REEU\$500,000. 09/01/2021 –08/31/2024 Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program (PI: Dr. Naima Moustaid-Moussa)
- Chanaka Kahathuduwa (Psychiatry Lbk). Title: Texas Child Mental Health Consortium CPAN, TCHATT, CPWE, and CAP Fellowship (Contract grant – University of Texas System). Funded by Texas Higher Education Coordinating. \$500,000 for 1 year.

Murimi, Mary

Publications:

- Murimi M**. What is the Place of Beef in a Healthful Sustainable Homo sapiens Diet? *Am J Health Promot.* 2022 Jun;36(5):898-900. doi: 10.1177/08901171221088661c. PMID: 35531995.
- Kitessa DA, Bacha K, Tola YB, **Murimi M**, Smith E, Gershe S. Nutritional compositions and bioactive compounds of "Shameta", A traditional home made fermented porridge provided exclusively to lactating mothers in the western part of Ethiopia. *Heliyon.* 2022 Feb 17;8(2):e08990. doi: 10.1016/j.heliyon.2022.e08990. PMID: 35243103; PMCID: PMC8866073.
- Moyeda-Carabaza AF, Githinji P, Nguyen B, **Murimi M**. The influence of frequent consumption of foods-away-from-home on the total diet quality and weight status among faculty and staff. *J Am Coll Health.* 2023 Jan;71(1):292-299. doi: 10.1080/07448481.2021.1891081. Epub 2021 Mar 24. PMID: 33759716.

Nair, Nandini

Publications:

- Mittal N, Pawar D, Parmar K, Sly Z, Del Rio-Pertuz G, Ansari MM, **Nair N**. Covaxin-Induced Lymphocytic Myocarditis. *Cureus.* 2022 Jul 11;14(7):e26759. doi: 10.7759/cureus.26759. PMID: 35967168; PMCID: PMC9365502.
- Nair N**. Vascular rejection in cardiac allograft vasculopathy: Impact on graft survival. *Front Cardiovasc Med.* 2022 Aug 4;9:919036. doi: 10.3389/fcvm.2022.919036. PMID: 35990962; PMCID: PMC9386065.
- Abdelnabi M, EINawaa S, Benjanuwattra J, Elmasyry M, **Nair N**. Ustekinumab-Induced Fatal Acute Heart Failure in a Young Female: A Case Report. *Methodist Debakey Cardiovasc J.* 2022 Jul 12;18(1):54-58. doi: 10.14797/mdcvj.1076. PMID: 35891701; PMCID: PMC9284982.

4. **Nair N.** Use of machine learning techniques to identify risk factors for RV failure in LVAD patients. *Front Cardiovasc Med.* 2022 Sep 14;9:848789. doi: 10.3389/fcvm.2022.848789. PMID: 36186964; PMCID: PMC9515379.
5. Del Rio-Pertuz G, **Nair N.** Gastrointestinal bleeding in patients with continuous-flow left ventricular assist devices: A comprehensive review. *Artif Organs.* 2023 Jan;47(1):12-23. doi: 10.1111/aor.14432. Epub 2022 Nov 5. PMID: 36334280.
6. **Nair N,** Du D, Hu Z, Gongora E. Risk Prediction Model for Survival of Wait-List Patients on Axial CF-LVAD: A UNOS Database Analysis. *Transplant Proc.* 2022 Sep;54(7):1894-1901. doi: 10.1016/j.transproceed.2022.04.029. Epub 2022 Aug 2. PMID: 35927087.

Neugebauer, Volker

Publications:

1. Presto, P., Ji, G., Junell, R., Griffin, Z., **Neugebauer, V.** Fear extinction based inter-individual and sex differences in pain-related vocalizations and anxiety-like behaviors but not nocifensive reflexes. *Brain Sci.* 11: 1339 (19 pp.), 2021. PMID: 34679403. PMC8533751.
2. Avila, M., **Neugebauer, V.**, DeToledo, J. Gender differences in MS related pain, correlation with MRI lesion localization and burden of disease. *Pharm. Pharmacol. Int. J.* 9:258–261, 2021.
3. Shen, C.-L., Wang, R., Ji, G., Elmassry, M.M., Zabet-Moghaddam, M., Vellers, H., Hamood, A.N., Gong, X., Mirzaei, P., Sang, S., **Neugebauer, V.** Dietary supplementation of gingerols- and shogaols-enriched ginger root extract attenuate pain-associated behaviors while modulating gut microbiota and metabolites in rats with spinal nerve ligation. *J. Nutr. Biochem.* 100: 108904 (12 pp.), 2022. PMID: 34748918; PMC8794052.
4. Shen, C.-L., Watkins, B., Kahathuduwa, C., Chyu, M.-C., Zabet, M., Elmassry, M.M., Luk, H.-Y., Brismee, J.-M., Knox, A., Lee, J., Zumwalt, M., Wang, R., Wager, T.D., **Neugebauer, V.** Tai Chi improves brain functional connectivity and plasma lysophosphatidylcholines in postmenopausal women with knee osteoarthritis: an exploratory pilot study. *Front. Med.* 8: 775344 (16 pp.), 2022. PMID: 35047525. PMC8761802.
5. Ashraf-Uz-Zaman, M., Ji, G., Tidwell, D., Yin, L., Burugu, D., Thakolwiboon, S., Pan, J., Junell, R., Griffin, Z., Shahi, S., Barthels, D., Sajib, M.S., Trippier, P.C., Mikelis, C.M., Das, H., Avila, M., **Neugebauer, V.**, German, N.A. Evaluation of Urea-Based Inhibitors of the Dopamine Transporter Using the Experimental Autoimmune Encephalomyelitis Model of Multiple Sclerosis. *ACS Chem. Neurosci.* 13: 217–228, 2022. PMID: 34978174.
6. Shen, C.-L., Castro, L., Fang, C.-Y., Castro, M., Sherali, S., White, S., Wang, R., **Neugebauer, V.** Bioactive compounds for neuropathic pain: an update on preclinical studies and future perspectives. *J. Nutr. Biochem.* 104: 108979 (29 pp.), 2022. PMID: 35245654.
7. Presto, P., Mazzitelli, M., Junell, R., Griffin, Z., **Neugebauer, V.** Sex differences in pain along the neuraxis. *Neuropharmacology* 210: 109030 (14 pp.), 2022. PMID: 35331712. PMC9354808.
2. Mazzitelli, M., Yakhnitsa, V., Neugebauer, B., **Neugebauer, V.** Optogenetic manipulations of CeA-CRF neurons modulate pain- and anxiety-like behaviors in neuropathic pain and control rats. *Neuropharmacology* 210: 109031 (12 pp.), 2022. PMID: 35304173. PMC9352141
3. Shen, C.-L., Schuck, A., Tompkins, C., Dunn, D.M., **Neugebauer, V.** Bioactive compounds for fibromyalgia-like symptoms: a narrative review and future perspectives. *Int. J. Environ. Res. Public Health* 19: 4148 (17 pp), 2022. PMID: 35245654. PMC8998198.
4. Ito, H., Navratilova, E., Vagnerova, B., Watanabe, M., Kopruszinski, C., Moreira de Souza, L.H., Yue, X., Ikegami, D., Moutal, A., Patwardhan, A., Khanna, R., Yamazaki, M., Guerrero, M., Rosen, H., Roberts, E., **Neugebauer, V.**, Dodick, D.W., Porreca, F. Chronic pain recruits hypothalamic dynorphin/kappa opioid receptor signaling to promote wakefulness and vigilance. *Brain* 153, 2022. PMID: 35485490.
5. Yakhnitsa, V., Ji, G., Hein, M., Presto, P., Griffin, Z., Ponomareva, O., Navratilova, E., Porreca, F., **Neugebauer, V.** Kappa opioid receptor blockade in the amygdala mitigates pain like-behaviors by inhibiting CRF neurons in a rat model of functional pain. *Front. Pharmacol.* 13: 903978 (16 pp.), 2022. PMID: 35694266. PMC9177060.

6. Presto, P., **Neugebauer, V.** Sex differences in CGRP regulation and function in the amygdala in a rat model of neuropathic pain. *Front. Mol. Neurosci.* 15: 928587 (14 pp.), 2022. PMID: 35726298. PMC9206543.
7. Shen, C.-L., Wang, R., Yakhnitsa, V., Santos, J., Watson, C., Kiritoshi, T., Ji, G., Hamood, A., **Neugebauer, V.** Gingerol-enriched ginger supplementation mitigates neuropathic pain via mitigating intestinal permeability and neuroinflammation: gut-brain connection. *Front. Pharmacol.* 13: 912609 (10 pp.), 2022. PMID: 35873544. PMC9305072
8. Kopruszinski, C.M., Watanabe, M., Martinez, A.L., de Souza, L.H.M., Dodick, D.W., Moutal, A., **Neugebauer, V.**, Porreca, F., Navratilova, E. Kappa opioid receptor agonists produce sexually dimorphic and prolactin-dependent hyperalgesic priming, *Pain*, 2022.
9. Mazzitelli, M., Presto, P., Antenucci, N., Meltan, S., **Neugebauer, V.** Recent Advances in the Modulation of Pain by the Metabotropic Glutamate Receptors. *Cells* 11: 2608 (40 pp), 2022. PMID: 36010684; PMC9406805.

Meeting Abstracts and Presentations (* denotes peer-reviewed):

1. *Pan, J., Thakolwiboon, S., German, N., **Neugebauer, V.**, Avila, M. Neuroprotective effect of AZ257, a novel urea-based dopamine transporter inhibitor, in the experimental autoimmune encephalitis (EAE) mouse model. American Academy of Neurology 2022 Annual Meeting, #2267, 2022.
2. Azzam, S., Manczak, M., **Neugebauer, V.** Studying the effect of mitochondrial dysfunction and other hallmarks of Alzheimer's. 34rd Annual Student Research Week, p. 124, 2022.
3. Griffin Z., Yakhnitsa, V., Hein, M., Navratilova, E., Presto, P., Porreca, F., **Neugebauer, V.** Kappa opioid receptor blockade reduces pain-like behaviors and restores inhibition of amygdala CRF neurons in a functional pain model in rats. 34rd Annual Student Research Week, p. 130, 2022.
4. Junell, R., Presto, P. Ponomarev, I., **Neugebauer, V.** Subacute silencing of HMGB1 in the amygdala inhibits pain-related behaviors in a rat model of chronic neuropathic pain. 34rd Annual Student Research Week, p. 133, 2022.
5. Watson, C., Wang, R., Yakhnitsa, V., Santos, J., Kiritoshi, T., Ji, G., **Neugebauer, V.**, Shen, C.-L. Ginger root extract improves mitochondrial dysfunction in NP model animals. 34rd Annual Student Research Week, p. 146, 2022.
6. Nia, S.S., Hossain, M.A., Ji, G., Obeng, S., Nozohouri, S., Patel, D., Kalem, R., Jonnalagadda, S., Sifat, A.E., Hiranita, T., Abbruscato, T.J., Trippier, P.C., Putnam, W.T., **Neugebauer, V.**, German, N.A. Selective KOR Antagonists, Novel Candidates For Treatment of Neuropathic Pain. 34rd Annual Student Research Week, p. 159, 2022.
7. Presto, P., **Neugebauer, V.** CGRP1 receptor blockade in the amygdala in neuropathic pain: cellular and behavioral outcomes. 34rd Annual Student Research Week, p. 161, 2022.
8. Shahi, S., Ashraf-Uz-Zaman, M.D., Ji, G., Tidwell, D., Yin, L., Thakolwiboon, S., Pan, J., Trippier, P.C., Avila, M., **Neugebauer, V.**, German, N.A. Novel class of DAT inhibitor for the treatment of addiction. 34rd Annual Student Research Week, p. 163, 2022.
9. Presto, P., **Neugebauer, V.** CGRP1 receptor blockade in the amygdala in neuropathic pain: Cellular and behavioral effects. 6th Annual CTNT Symposium, p. 28, 2022.
10. *Shen, C.-L., Newman, J.W., Elmassy, M.M., Borkowski, K., Chyu, M.-C., Kahathuduwa, C., **Neugebauer, V.**, Watkins, B.A. Tai Chi improves plasma levels of oxylipins and endocannabinoids in postmenopausal women with knee osteoarthritic pain. International Congress on Integrative Medicine and Health, 1866, 2022.
11. *Shen C.-L., Elmassy, M.M., Santos, J., Wang, R., Yakhnitsa, V., Kiritoshi, T., Ji, G., Lovett, J., Hamood, A., **Neugebauer, V.** Two Curcumin extracts modify composition of gut microbiota, tight junction protein, and neuroinflammation in rats with neuropathic pain: microbiota-gut-brain axis, Nutrition, PO19-25-22, ID 1201566 2022.
12. *Shen C.-L., Wang, R., Yakhnitsa, V., Santos, J., Watson, C., Kiritoshi, T., Ji, G., Kim, N., Lovett, J., Hamood, A., **Neugebauer, V.** Ginger root extract mitigates neuropathic pain via suppressing neuroinflammation: gut-brain connection. Nutrition, PO19-24-22, ID 1201512, 2022.

13. * Santos, J.M., Wang, R., Driver, Z., Bhakta, V., Contreras, J., Yakhnitsa, V., Kiritoshi, T., Ji, G., **Neugebauer, V.**, Shen, C.-L. Curcumin and Curcuminoid effects modulating chronic mechanical sensitivity in spinal nerve ligation model revert mitochondria dysfunction and oxidative stress. Nutrition, PO07-63-22, ID 1209117, 2022.
14. *Presto, P., Ponomarev, I., **Neugebauer, V.** Subacute Silencing of HMGB1 in the Amygdala Reduces Pain-Related Behaviors in a Rat Model of Chronic Neuropathic Pain. 19th World Congr. Pain, IASP, PFR189, 2022.
15. *Mazzitelli, M., **Neugebauer, V.** Group II mGluR agonists decrease CeA neuronal excitability via astrocytic mGluR3 activation in an arthritis pain model. 19th World Congr. Pain, IASP, PTH80, 2022.
16. John, J., **Neugebauer, V.** Chemogenetic modulation of the amygdala in pain. Transformative Undergraduate Experiences Symposium, 55, 2022.
17. Santos, J.M., Wang, R., **Neugebauer, V.**, Shen, L. Curcumin effects modulating chronic pain in spinal nerve ligation (SNL) model by reverting mitochondria dysfunction and oxidative stress in spinal cord and amygdala. 4th Integrative Medicine Symposium and 11th Gender-Specific Medicine and Women's Health Symposium, LWBIWH, 2022.
18. *Welch, G.S., Presto, P., Mendoza, B., **Neugebauer, V.** Role of exogenously induced neuroimmune activation in the rodent right and left central amygdala. Soc. Neurosci. Abstr. 51: 047.01, 2022.
19. *Kiritoshi, T., Yakhnitsa, V., **Neugebauer, V.** Differential pain-related synaptic and excitability changes in amygdala CRF and non-CRF neurons in acute and chronic phases of a neuropathic pain model. Soc. Neurosci. Abstr. 51: 047.02, 2022.
20. *Ji, G., Kiritoshi, T., Yakhnitsa, V., Navratilova, E., Porreca, F., **Neugebauer, V.** Chemogenetic manipulation of amygdala kappa opioid receptor neurons modulates amygdala neuronal activity. Soc. Neurosci. Abstr. 51: 047.03, 2022.
21. *Mazzitelli, M., **Neugebauer, V.** mGluR2 and mGluR3 activation mediate different neuronal and synaptic functions of CeA neurons in an arthritis pain model. Soc. Neurosci. Abstr. 51: 047.04, 2022.
22. *Mendoza, B., Presto, P., Ponomarev, I., **Neugebauer, V.** Hmgb1 silencing in the amygdala inhibits pain-related behaviors in a sex-specific manner in a rat neuropathic pain model. Soc. Neurosci. Abstr. 51: 047.05, 2022.
23. *Yakhnitsa, V., Ponomareva, O., Thompson, J., Pruitt, K., **Neugebauer, V.** Reduced SK2-channel expression in central nucleus of amygdala in chronic neuropathic pain. Evidence for epigenetic mechanism. Soc. Neurosci. Abstr. 51: 047.06, 2022.
24. *Presto, P., Ji, G., Ponomarev, I., **Neugebauer, V.** Transcriptomic profiling of the central and basolateral amygdala in a rat model of chronic neuropathic pain. Soc. Neurosci. Abstr. 51: 047.07, 2022.
25. *Antenucci, N., Ji, G., Kiritoshi, T., Navratilova, E., Porreca, F., **Neugebauer, V.** Chemogenetic manipulation of amygdala kappa opioid receptor neurons modulates neuropathic pain behaviors. Soc. Neurosci. Abstr. 51: 047.08, 2022.
26. **Neugebauer, V.**, Mazzitelli, M. Amygdala mGluR2 and mGluR3 modulate different aspects of arthritis pain-related behaviors. Soc. Neurosci. Abstr. 51: 047.09, 2022.
27. *Kopruszinski, C.M., Stratton, H.J., Watanabe, M., Martinez, A.L., Moreida De Souza, L., Dodicks, D.W., Moutal, A., **Neugebauer, V.**, Porreca, F., Navratilova, E. Kappa opioid receptor agonists produce sexually dimorphic and prolactin-dependent hyperalgesic priming. Soc. Neurosci. Abstr. 51: 541.16, 2022.
28. *Manczak, M., Yib, X., Burugu, D., Lawrence, J.J., **Neugebauer, V.** The role of mitochondrial fission protein Drp1 in mitophagy process in transgenic mouse model (Tau-P301L). Soc. Neurosci. Abstr. 51: 705.19, 2022.
29. *Shen, C.-L., Elmassry, M.M., Santos, J.M., **Neugebauer, V.** Effects of two curcumin extracts on lipid and amino acid metabolites in amygdala and colon of rats with neuropathic pain. 4th Asia-Pacific Nutrigenomics & Nutrigenetics Organisation APNNO22 Conference, Taipei, Taiwan.

Invited Lectures during reporting period:

1. 09-21-2022 “Role of Amygdala Neuro-Immune Signaling in Chronic Neuroplasticity and Pain Behaviors”. Topical Workshop - Session: The Amygdala as a Master Generator of Pain Plasticity - from Nociceptive Amygdala to Nociplastic Amygdala, IASP 2022 World Congress on Pain, Toronto, Canada.
2. 09-19-2022 “Amygdala Neuroplasticity and Pain Behaviors with a Focus on CRF Neurons”. Refresher Course - Session: The central amygdala in chronic pain - circuit, neuropeptides, and nociplasticity, IASP 2022 World Congress on Pain, Toronto, Canada.
3. 06-16-2022 “Emotional aspects of pain – preclinical studies. Behavioral assessment”. Neuroscience School of Advanced Sciences, Venice, Italy.
4. 06-16-2022 “Emotional aspects of pain – preclinical studies. Neuroplasticity”. Neuroscience School of Advanced Sciences, Venice, Italy.
5. 06-01-2022 “Amygdala CRF neurons and pain modulation”. Pain Mechanisms and Therapeutics Conference. Verona, Italy
6. 04-30-2022 “Mentoring Early Career Faculty and How to Deal with Senior Inactive / Unfunded Faculty?” AMSNDC, Long Beach, CA.
7. 03-22-2022 “Brain mechanisms of pain”. Biology of Pain course, UTHSC, San Antonio, TX (virtual)
8. 01-21-2022 “Amygdala modulation of pain behaviors”. Texas Gulf Coast Consortium for Translational Pain Research, Houston, TX, Virtual Workshop.
9. 10-04-2021 “Differential roles of mGluR2 and mGluR3 in the amygdala in pain modulation”. 10th mGlu Meeting, Taormina, Italy.

News Releases - Educational Activities for the Lay Public

1. “TTUHSC Event Seeks to Spread the Word About Alzheimer’s Disease”. In: TTUHSC Statline Daily Dose, by Mark Hendricks, November 4, 2022; <https://dailydose.ttuhs.edu/2022/november/garrison-alzheimers-awareness.aspx>
2. “TTUHSC researchers receive new NIH grant to continue studying amygdala-pain link”. In: EurekAlert, a service of the American Association for the Advancement of Science. Media Contact: Suzanna Cisneros, February 1, 2022. <https://www.eurekalert.org/news-releases/941989>.
3. “TTUHSC Researchers Receive New NIH Grant to Continue Studying Amygdala-Pain Link”. In: TTUHSC Statline Daily Dose, by Mark Hendricks, January 31, 2022; <https://dailydose.ttuhs.edu/2022/january/researchers-receive-nih-grant-amygdala-pain-link.aspx>.

Grants:

TTUHSC SOM, CTNT, GIA Seed Fund Program

01/01/23 – 12/31/23

“Mental Health Telemedicine for Caregivers of People with Alzheimer’s Disease and Related Dementias in Rural West Texas”

The goal of this study is to implement a telehealth program to expand our mental health services to individuals living in rural counties in West Texas. We will also examine the dyadic relationship between family caregivers receiving telehealth services and the person with Alzheimer’s disease (AD) and related dementias (ADRD) and underlying biopsychosocial mechanisms.

PI (Contact), Volker Neugebauer

MPI, Jonathan Singer (TTU)

Total costs: \$30,000

Davis Foundation

11/10/22 – 10/31/23

“Ginger extract in anxio-depressive disorders: gut-brain-axis”

The goal of this study is to test candidate genes associated with neuroinflammation-, neuroimmune-, neuroplasticity-, neurotransmitters-, and neurotoxicity in anxio-depressive disorders on brain samples from GEG-supplemented animals and to use gut microbiome analysis to explore the association between gut microbiome and anxio-depressive disorder-related gene expression.

PI (Contact), Chwan-Li (Leslie) Shen (TTUHSC)

MPI, Volker Neugebauer

Total costs: \$10,000

R01 NS129552 – NIH/NINDS

09/20/22 – 07/31/27

“Brain Circuits of Migraine Pain”

The goal of this study is to determine the potential relevance of a central CGRP circuit from parabrachial nucleus to amygdala as a common pathway of migraine pain that can be engaged by CGRP-dependent and CGRP-independent peripheral mechanisms, which may ultimately lead to development of improved therapies.

PI (Contact), Frank Porreca (University of Arizona), MPI, Edita Navratilova (University of Arizona)

MPI, Volker Neugebauer

Total costs: \$3,118,625 (TTUHSC subcontract \$1,235,720)

Diversity, Equity and Inclusion (DEI) research grant

09/01/22 – 08/31/23

Office of Diversity, Equity and Inclusion, the Office of the Provost, and the Office of Research and Innovation

“Implementing Individual Mental Health Treatment and Respite for Hispanic Informal Caregivers of Individuals with Dementia”.

The overall goal of this project is to implement individual mental health services for Hispanic informal caregivers of Alzheimer’s Disease and Related Dementia (ADRD) patients and provide both respite care and weekly therapeutic recreation (e.g., music, arts, and crafts) for individuals with ADRD.

PI, Jonathan Singer, TTU

MPI, Volker Neugebauer

Total costs: \$14,500

Garrison Family Foundation

01/25/22 – 01/31/23

“Increasing Mental Health Services for Low Income and Minority Informal Caregivers of Dementia Patients: A GIA and TTU Collaboration”

The goal of this study is to provide mental health healthy services and stress busting program for informal caregivers of patients with dementia.

PI, Volker Neugebauer

Total costs: \$75,000

R01 NS038261 - NIH/NINDS

12/15/21 - 11/30/26

“Amygdala Pain Mechanisms”

The overall goal of this project funded since 1999 is to determine role and mechanisms of amygdala plasticity in pain and its interactions with cortical-cognitive control centers, using electrophysiology, pharmacology, behavioral assays, gene transfer and optogenetic strategies. The focus of this project period is on neuroimmune signaling as a mechanism of neuroplasticity and neuropathic pain.

PI, Volker Neugebauer

MPI, Igor Ponomarev

Total costs: \$2,757,940

R01 NS120395 – NIH/NINDS Impact score: 10, Percentile: 1.0 08/01/21 – 07/31/26

“A prolactin-mediated neuroendocrine link between stress-induced latent sensitization and female-selective pain”

The goal of this study is to identify a previously unknown stress-related neuroendocrine link between hypothalamic kappa opioid receptors and prolactin/prolactin receptor signaling in nociceptors as a basis for female selective pain syndromes.

PI (Contact), Frank Porreca (University of Arizona), MPI, Edita Navratilova (University of Arizona)

MPI, Volker Neugebauer

Total costs: \$2,297,350 (TTUHSC subcontract \$ 921,815)

2021-67017-34026 - USDA/NIFA

“Ginger root extract for neuropathic pain”

01/01/21 - 12/31/23

The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals.

PI (Contact), Chwan-Li (Leslie) Shen (TTUHSC)

MPI, Volker Neugebauer

Total costs: \$500,000

R01 NS118731 – NIH/NINDS

08/01/20 – 07/31/25

“Trans-Synaptic Signaling Complex in Amygdala Pain Mechanisms”

The goal of this project is to determine the role of the trans-synaptic signaling complex centered on cerebellin 1 and glutamate delta 1 receptor in the regulation of amygdala plasticity and pain mechanisms.

PI (Contact), Shashank Dravid (Creighton University)

MPI, Volker Neugebauer

Total costs: \$2,674,615 (TTUHSC Subcontract \$ 733,450)

R01 NS109255 – NIH/NINDS

08/15/19 – 06/30/24

“Pronociceptive and Antinociceptive Opioid Mechanisms in the Central Nucleus of the Amygdala”

The goal of this project is to determine cellular mechanisms and behavioral consequences of differential functions of mu and kappa opioid systems in the amygdala in neuropathic pain.

PI (Contact), Edita Navratilova (University of Arizona), PI, Guangchen Ji

Co-I, Volker Neugebauer

Total costs: \$2,544,148 (TTUHSC subcontract \$ 1,253,415)

R01 AA027096 – NIH/NIAAA

07/01/19 - 06/30/23

“The Neuroimmune Model of Excessive Alcohol Consumption: Transition to Alcohol Use Disorder”

The goal of this project is to determine cell type-specific molecular mechanisms of immune activation, its role and effects on the brain in the development of alcohol use disorder (AUD).

PI, Igor Ponomarev (TTUHSC)

Co-I, Volker Neugebauer

Total costs: \$2,868,750 (original start date, 09/10/2018; transferred to TTUHSC on 07/01/19)

R01 NS106902 – NIH/NINDS

04/01/18 - 03/31/23

“Stress-Induced Descending Facilitation from Amygdala Kappa Opioid Receptors in Functional Pain”

The overall goal of this project is to determine the role of KOR in amygdala plasticity and behaviors in a functional pain model. A key hypothesis is that blockade of stress-induced endogenous amygdala KOR signaling reduces pain responses following priming-induced latent sensitization.

PI (Contact), Frank Porreca (University of Arizona)

MPI, Volker Neugebauer

Total costs: \$ 2,740,180 (TTUHSC subcontract \$ 1,295,245)

PN-CTNT 2018-12 LSVNBAW

12/01/18 - 12/31/21

Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC.

“Tai Chi for Pain Management: A Pilot Mechanistic Study”.

The goal of this study is to collect preliminary data on how Tai Chi (pre and post design) may help with pain management of postmenopausal women with knee osteoarthritis and explore the molecular mechanism.

PI (Contact), Chwan-Li (Leslie) Shen (TTUHSC)

PI, Volker Neugebauer

Total costs: \$18,000

COHS AD Seed Grant - TTU

03/01/21 – 12/31/21

“Global gene expression profiling of high fat and fish oil effects in a mouse model of Alzheimer’s disease”

The goal of this study is to test if fish oil has protective effects in an Alzheimer's disease mouse model by reducing brain, adipose tissue and systemic inflammation and decreasing amyloid beta accumulation.

PI (Contact), Naima Moustaid-Moussa (TTU)

PI, Volker Neugebauer

Total costs: \$10,000

Awards

1. University Distinguished Faculty Award, President, TTUHSC, 2022
2. Chancellor's Distinguished Research Award, Texas Tech University System, 2021

Oldewage, Wilna

Publications:

1. **OLDEWAGE-THERON W** & GROBLER C. 2022. Vitamin D status of the elderly in the Vaal region, South Africa. *South African Journal of Clinical Nutrition*, 2 pages. <https://doi.org/10.1080/16070658.2022.2041887>.
2. MOYO G, STICKLEY Z, LITTLE T, DAWSON J, THOMAS-JACKSON S, NGROUND A J, JORDAAN M, ROBB M, WALSH C & **OLDEWAGE-THERON W**. 2022. Effects of nutritional and social factors on favorable fetal growth conditions using structural equation modelling. *Nutrients*, 14: 4642. <https://doi.org/10.3390/nu14214642>
3. # SIENSO G, LYFORD C & **OLDEWAGE-THERON W**. 2022. Using instrumental variables to establish the relationship between household production diversity and household dietary diversity in Northern Ghana. *African Journal of Food, Agriculture, Nutrition and Development*, 22(7): 21036-21055. <https://doi.org/10.18697/ajfand.112.20255>
4. LEE H, MOYO G, IBIYEMI T, PENG LL, NAJAM W & **OLDEWAGE-THERON W**. 2022. Impact of COVID-19 on food security status of college students in West Texas. *Epidemiology International Journal*, 6 (special issue 1): 12 pages. <https://medwinpublishers.com/EIJ/impact-of-covid-19-on-food-security-status-of-college-students-in-west-texas.pdf>
5. MUSA AO, CARPIO CE & **OLDEWAGE-THERON W**. 2022. Who uses food banks and other private food charities? A comparison with SNAP users. *Journal of Hunger & Environmental Nutrition*, 17: 14 pages. <https://doi.org/10.1080/19320248.2022.2058333>
6. MOYO G, EGAL AA & **OLDEWAGE-THERON, W**. 2022. Exploring the prevalence of multiple forms of malnutrition in children 6-18 years living in the Eastern Cape, South Africa. *South African Journal of Clinical Nutrition*, 5 pages. <https://doi.org/10.1080.16070658.2022.2061109>
7. MKHIZE X, **OLDEWAGE-THERON W**, NAPIER, C, DUFFY K & MTHEMBU BE. 2022. Introducing grain legumes for crop diversification and sustainable food production systems amongst urban small-holder farmers: a food and nutrition security project in KwaZulu-Natal, South Africa. *Agroecology and Sustainable Food Systems*. 46(6): 791-814. . <https://www.tandfonline.com/doi/full/10.1080/21683565.2022.2070814>
8. ABU BAZ, TAVAREZ S & **OLDEWAGE-THERON W**. 2022. University students suggest solutions to campus food insecurity: A mixed methods study. *Journal of Hunger & Environmental Nutrition*. 17(1): 16 pages. <https://doi.org/10.1080/19320248.2022.2055437>
9. IBIYEMI TE & **OLDEWAGE-THERON W**. 2022. A review of food and nutrition security in Nigeria. *African Journal of Food, Agriculture, Nutrition and Development*, 22(1): 16 pages. <https://ajfand.net/Volume22/No1/Commentary-Temitope.pdf>
10. MOYO G, THOMAS-JACKSON S, CHILDRESS A, DAWSON J, THOMPSON L & **OLDEWAGE-THERON W**. 2022. Chrononutrition and breast milk: a review of the circadian variation of hormones present in human milk. *Clinical Lactation*, 12(3): 7-17.
11. MALCZYK S, STEYN NP, NEL JH, EKSTEEN G, DRUMMOND L, **OLDEWAGE-THERON W**, FABER M, VAN STUIJVENBERG ME & SENEKAL M. 2022. Mean \pm standard deviation intake values for 1- <10-year old South African children for application in the assessment of the inflammatory potential of

their diets using the DII® method: Developmental research. *Nutrients*, 14: 11.
<https://doi.org/10.3390/nu14010011>

Abstracts:

1. IBIYEMI T, NAJAM W & **OLDEWAGE-THERON W**. 2022. Interplay between food insecurity and stress among international students at a university in West Texas. *Current Developments in Nutrition*, 6(Suppl 1): 116. https://academic.oup.com/cdn/article/6/Supplement_1/116/6606832
2. NAJAM W, WALSH C & **OLDEWAGE-THERON W**. Nutrition knowledge, attitudes, beliefs, and practices among adults in urban and rural areas in the Free State, South Africa. *Journal of Nutrition Education and Behavior*, 54(7)(Sppl): S24.
3. IBIYEMI T, ANDREWS P & **OLDEWAGE-THERON W**. 2022. Perceived stress levels and eating habits of college students at a West Texas University. *Journal of the American Academy of Nutrition and Dietetics*, 122(9)(Suppl 1): A64.

Presentations:

1. Academy of Nutrition and Dietetics Food & Nutrition Conference 8-11 October 2022, Orlando, FL
IBIYEMI T, ANDREWS P & **OLDEWAGE-THERON W**. 2022. Perceived stress levels and eating habits of college students at a West Texas University (poster).
2. Society of Nutrition Education and Behavior Conference July 2022, Atlanta, GA
NAJAM W, WALSH C & **OLDEWAGE-THERON W**. Nutrition knowledge, attitudes, beliefs, and practices among adults in urban and rural areas in the Free State, South Africa (poster).
3. Nutrition 2022 Conference 8 June 2022 (virtual): IBIYEMI T, NAJAM W & **OLDEWAGE-THERON W**. 2022. Interplay between food insecurity and stress among international students at a university in West Texas (poster).

Palmer, Ty

Publications:

1. **Palmer, T. B.**, Farrow, A. C.* (2022). Correcting for subcutaneous fat: does it improve the correlation between vastus lateralis echo intensity and physical performance in older women? *Clinical Physiology and Functional Imaging*, 42(5), 372-379.
2. **Palmer, T. B.**, Akehi, K. (2022). Rate of torque development as a discriminator of playing level in collegiate female soccer players. *Journal of Musculoskeletal and Neuronal Interactions*, 22(3), 326-335.
3. **Palmer, T. B.**, Blinch, J., Farrow, A. C.*, Agu-Udemba, C. C.†, Mitchell, E. A.† (2022). The acute effects of fast-paced walking on isometric peak torque and rate of torque development in regularly exercising and inactive older women. *Journal of Aging and Physical Activity*, 30(3), 397-403.
4. Akehi, K., **Palmer, T. B.**, Conchola, E. C., Thompson, B. J., Kasl, A., Bice, M., Unruh, S. (2022). Changes in knee extension and flexion maximal and rapid torque characteristics during a collegiate women's soccer season. *Journal of Strength and Conditioning Research*, 36(5), 1389-1395.
5. **Palmer, T. B.**, Farrow, A. C.*, Agu-Udemba, C. C.†, Mitchell, E. A.† (2022). The time course of passive stiffness responses following an acute bout of static stretching in healthy, elderly men. *Physiotherapy Theory and Practice*, 38(5), 695-703.

Note: * indicates graduate student author; † indicates undergraduate student author.

Abstracts:

Posters:

1. Farrow, A. C.*, **Palmer, T. B.**, Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Acute effects of static stretching on passive stiffness of the hamstrings in healthy young and older women," Regional, peer-reviewed/refereed, published in proceedings. (February 2022).
2. Riley, W. N.†, Akehi, K., Rowley, M. S.†, Farrow, A. C.*, **Palmer, T. B.**, Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Vertical jump performance as a discriminator of playing ability in

collegiate female soccer players," Regional, peer-reviewed/refereed, published in proceedings. (February 2022).

Note: * indicates graduate student author; † indicates undergraduate student author.

Park, Oak Hee

Publications:

1. Islam T, Albracht-Schulte K, Ramalingam L, Schlabritz-Lutsevich N, **Park OH**, Zabet-Moghaddam M, Kalupahana NS, 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 Nov 26;115:109242. doi: 10.1016/j.jnutbio.2022.109242. Epub ahead of print. PMID: 36442715.

Conference Presentations/Proceedings: Note: * indicates student authors/presenters.

1. Wang, H*, Moustaid-Moussa, N, Oldewage-Theron, W., Thompson, L., Albracht-Schulte, K., Lee, J., & **Park, O.** (2022). Social Cognitive Theory-based Nutrition Intervention to Improve Healthy Eating and Active Lifestyle among Rural Texas High School Students. 7th Annual Meeting Poster Competition, Obesity Research Institute, Innovation Hub, Lubbock, Texas.
2. Phy, S.* & **Park, O.** (2022). Impact of polyphenol and carotenoid intakes on mental health and diet quality in a food insecure undergraduate student sample. 7th Annual Meeting Poster Competition, Obesity Research Institute, Innovation Hub, Lubbock, Texas. **Outstanding Undergraduate Presenter (1st Place)**
3. Akra, E.* , Driver, J.* , Phy, S* , Wang, H.* , & **Park, O.** (2022). Food insecurity: Risk factors, characteristics, and lifestyle changes among university students during COVID pandemic. 2022 Fall TrUE Transformers Showcase, TTU-HSC, Lubbock Texas.
4. Phy, S.* & **Park, O.** (2022). Impact of polyphenol and carotenoid intakes on mental health and diet quality in a food insecure undergraduate student sample. 2022 Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
5. Ganjegunte, D.* , Wang, H.* , Thompson, L., Moustaid-Moussa, N. & **Park, O.** (2022). Examine U.S. consumers' perceptions of sorghum grain as regular diet. 2022 Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
6. Akra, E.* , Wang, H.* , & **Park, O.** (2022). The association between financial literacy and food insecurity in a college student sample. 2022 Texas Tech University Undergraduate Research Conference, Lubbock, Texas. **Outstanding Presenter (3rd Place in Economic Impact Category)**
7. Driver, J.* , Wang, H.* , & **Park, O.** (2022). Comparison of health and academic well-being between food secure and food insecure college students during COVID pandemic. 2022 Texas Tech University Undergraduate Research Conference, Lubbock, Texas.

Grants Not Funded (I do not have funded grants in 2022, but below are submissions, just in case FYI)

1. USDE-PN; Lubbock Improving Families Together (LIFT); 5-year project (01/01/2023-12/31/2027); Total Amount Requested: \$55,892,150; Role: Co-PI (6% Credit); PI: Shirley Matteson
2. USDA-Sustainable Agriculture Systems; GRow and EAT Leafy GREENS (GREAT GREENS): Sustainable Production of Leafy Greens for Health and Nutrition Security; 5-year project (06/01/2023-05/31/2028); Total Amount Requested: \$10 Million; Role: Co-PI (8% Credit); PI: Naima Moustaid-Moussa; Invited Resubmission
3. USDA-NNF; SUSTAINN: Skill development in Urban Horticultural Systems thru Training using Agricultural Interdisciplinary Networks in Nutrition, Food and Plants; 4-year project. (01/01/2023-12/31/2026); Total Amount Requested: \$262,500; Role: Co-PI (12% Credit); PI: Catherine Simpson
4. National Cattlemen's Beef Association; Does Beef Consumption Impact the Metabolome and Systemic Inflammatory Status in Human Subjects? A Study Across Different Weight Spectra; 2-year project (01/01/2023- 12/31/2025); Total Amount Requested: \$175,829; Role: Co-PI (20% Credit); PI: Clarissa Strieder Barboza; Invited Resubmission

Phy, Jennifer

Publications:

1. Mathew M, Sivaprakasam S, Phy JL, Bhutia YD, Ganapathy V. Polycystic ovary syndrome and iron overload: biochemical link and underlying mechanisms with potential novel therapeutic avenues. *Biosci Rep.* 2023 Jan 31;43(1):BSR20212234. doi: 10.1042/BSR20212234. PMID: 36408981.
2. Williams A, Buschmann B, Rimu A, **Phy JL**. Addison's disease presenting as shortness of breath and hypertension in early pregnancy. *The Southwest Respiratory and Critical Care Chronicles*, (45): 54-58, October 2022.
3. **Phy JL**. Spontaneous Pregnancies in Polycystic Ovary Syndrome Patients with a Low Starch/Low Dairy Diet: A Retrospective Case Series. *J Community Med Public Health*, 6:242., April 6, 2022.

Grants and Contracts Awarded

1. Exploring the Effects of a Dietary Education Program on Gut Microbiome Composition and Management of Polycystic Ovary Syndrome (PCOS), August 30, 2021 - Present, Laura W Bush Institute for Women's Health. **Phy JL** . Total Amount: \$20,000.

Punyanunt, Narissra

Publications:

1. *Brammer, S. E., **Punyanunt-Carter, N. M.**, & Duffee, R.S. (2022). Oversharing on social networking sites: A contemporary communication phenomenon. *Computers in Human Behavior Reports*, 8,100236-100240. <https://doi.org/10.1016/j.chbr.2022.100236> [Elsevier Publishing Company, IF: 6.829]
2. Wagner, T.R., & **Punyanunt-Carter, N. M.** (2022). Rules, reciprocity, and emojis: An exploratory study on flirtatious texting communication. *Southern Communication Journal*, 87 (5), 461-475. <https://doi.org/10.1080/1041794X.2022.2108889> [Taylor & Francis Company, 2022 Q2, IF: 1.10]
3. Charoensap-Kelly, P., Preddis, D., & **Punyanunt-Carter, N. M.** (2022). Needs assessment of national communication conference presentations: Members' perceptions of presentation effectiveness, values, and challenges. *Journal of Communication Pedagogy*, 6 (1), 100-127. <https://doi.org/10.31446/JCP.2022.1.10>. [Scimago: 2021 IF: .90]
4. **Punyanunt-Carter, N. M.**, LaFreniere, J. R., Norman, M. S., Brammer, S. E., & Colwell, M. J. (2022). From stepmonsters to the family's saving grace: Viewer perceptions of stepfamilies, stepfathers and stepmothers in media. *Media Watch*. <https://doi.org/10.1177/09760911221113444>. [Scimago: 2021 IF: .53]
5. *Brammer, S. E., *Martinez, R. J., & **Punyanunt-Carter, N. M.** (2022). Practical tools for the teacher-scholar: Four ways to advance racial justice through transformative learning. *Communication Education*, 71(4), 356-358. <https://doi.org/10.1080/03634523.2022.2105919>. [Taylor & Francis Company, 2022 Q1: IF: 1.79]
6. Riggs, R.E., Melhem, S., *Perez, C., Smith, C., & **Punyanunt-Carter, N.M.** (2022). Understanding American College Students' Perceptions of Asians in the Media. *Media Asia*. <https://doi.org/10.1080/01296612.2022.2116535>. [Taylor & Francis Company, 2022 IF: 1.67]
7. Preddis, D., Charoensap-Kelly, P., & **Punyanunt-Carter, N. M.** (2022). Practice What We Preach: National Communication Association Members Define Effective Conference Presentations and Provide Suggestions for their Improvement. *Texas Speech Communication Journal*, 46, 11-30. <https://ttu-ir.tdl.org/handle/2346/90297>. [Scimago: 2021 IF: .09]
8. Wagner, T. R. & **Punyanunt-Carter, N.M.** (2022, June). Understanding Communication, Social Presence, and Dialectical Tensions of Pandemic Learning. *Ohio Communication Journal*, 60, 164-169. <https://www.ohiocomm.org/wp-content/uploads/2022/06/Wagner.pdf>. [Scimago: 2021 IF: .29]
9. Levine, T. R., Serota, K., & **Punyanunt-Carter, N.M.** (2022). Lie frequency and motives from the sender and receiver perspectives: Testing predictions from truth-default theory. *Southern Communication Journal*. <https://doi.org/10.1080/1041794X.2022.2052745>. [Taylor & Francis Company, 2022 Q2 IF: 1.10]
10. *Brammer, S. E. & **Punyanunt-Carter, N. M.** (2022). Getting the Attention of Online Learners. *Communication Education*, 71(2), 155-157. <https://doi.org/10.1080/03634523.2021.2022732>. [Taylor & Francis Company, 2022 Q1 IF: 1.79]

11. Charoensap-Kelly, P., & **Punyanunt-Carter, N. M.** (2022). Changing the Graduate Student Socialization Process for the Future. *Communication Education*, 71(1), 67-70.
<https://doi.org/10.1080/03634523.2021.1995767>. [Taylor & Francis Company, 2022 Q1 IF: 1.79]

Book chapters:

1. **Punyanunt-Carter, N. M.** (2022). Chapter 25: Serving as Chair: Different Perspectives. In Andrew T. Kemp & Nicholas D. Hartlep (Eds). *What the Hell was I Thinking? Reflections, Ruminations, and Revelations on Becoming a Department Chair*. DIO Press, United States.
2. Dibble, J. L., **Punyanunt-Carter, N. M.** (2022). Chapter 13: A New Look for the "Little Black Book": Back Burner Relationships, and Modern Communication Technology. In Jimmie Manning & Cary Marie Noland (Editors). *Contemporary Studies of Sexuality & Communication* 2nd. Edition. Dubuque, IA: Kendall Hunt.
3. *Alfonsin, B., & **Punyanunt-Carter, N.M.** (2022). Chapter 3: College students' perceptions of online learning during the pandemic. In Micheal Strawser (Ed). *Higher Education Implications for Teaching and Learning during COVID-19*. Rowman & Littlefield: Washington, DC.
4. **Punyanunt-Carter, N. M.** (2022). Chapter 8: Persuasion in Interpersonal Contexts. In Shawn Wahl (Ed.) *Persuasion in Your Life* (3rd. Edition). Pearson Press. (pp. 177-194).

Instructional Publication:

1. Arias, V. S., **Punyanunt-Carter, N.M.**, & *Martinez, R. J. (2022). Incorporating the Social Media App for Civil Engagement. *Texas Speech Communication Journal*, 46, 80-82.

* Indicates a publication with a current TTU graduate student

Presentations:

1. Martinez, R. J., Brammer, S. E., & **Punyanunt-Carter, N. M.** (2022, November 17). "I can spend forever on it without getting bored": Analyzing what college students like and dislike about TikTok. Paper will be presented at the annual meeting of the National Communication Association, New Orleans, LA.
2. Martinez, R. J., **Punyanunt-Carter, N. M.**, & Levine, T. R. (2022, November 17). How People Detect Lies On and Offline. Paper will be presented at the annual meeting of the National Communication Association, New Orleans, LA.
3. Brammer, S. E., Martinez, R. J., & **Punyanunt-Carter, N. M.** (2022, November 18). Examining College Students' Perceptions Regarding Self-Disclosure Behaviors on TikTok. Paper will be presented at the annual meeting of the National Communication Association, New Orleans, LA.
4. Balota, I. K., Wagner, T. R., Bowman, N. D., & **Punyanunt-Carter, N.M.** (2022, November 17). Understanding Relationship Maintenance Behaviors and Video Game Use Effects in Romantic Relationships. Paper will be presented at the annual meeting of the National Communication Association, New Orleans, LA.
5. Martinez, R. J., **Punyanunt-Carter, N. M.**, & Arias, V. S. (2022, November 19). Incorporating The Social Media App for Civic Engagement. Paper will be presented at the annual meeting of the National Communication Association, New Orleans, LA.
6. Riggs, R., Melhem, S., Perez, C., Smith, C., & **Punyanunt-Carter, N.M.** (2022, November 20). Understanding American College Students' Perceptions of Asians in the Media. Paper will be presented at the annual meeting of the National Communication Association, New Orleans, LA.
7. Arias, V.S., **Punyanunt-Carter, N.M.**, Dibble, J.; Drouin, M. Ouystel, J. V., & Martinez, R. J. (2022, April 9). College Students' Motivations to Engage in Back Burner Relationships. Paper will be presented at the annual meeting of the Eastern Communication Association, Philadelphia, PA.
8. **Punyanunt-Carter, N.M.**, & Martinez, R. J. (2022, April 6). Power in the Classroom: Exploring the Connections Between Graduate Teaching Assistant's Deployment of Power in Public Speaking Courses and College Students' Communication Apprehension. Paper will be presented at the annual meeting of the Eastern Communication Association, Philadelphia, PA.

9. Brammer, S. E., **Punyanunt-Carter, N. M.**, & Duffee, R. S. (2022, April 2). Oversharing on Social Networking Sites: A New-Age Communication Phenomenon. Paper will be presented at the annual meeting of the Central States Communication Association, Madison, WI.

GRANTS (Texas Tech University, Internal Funding Opportunities) N= 5

1. 2022	Institutional Diversity, Texas Tech University	\$10,000
2. 2022	Open Educational Resources, Texas Tech University	\$4,000
3. 2022	TRU Undergraduate Research Mentoring Grant	\$750
4. 2022	Online Course Design Academy Grant	\$2,500
5. 2022	MACRO TRU Funding	\$12,000

Rahman, Rakhshanda

Publications:

1. **Rahman RL**. Wisdom is in the eye of the beholder. *Am J Surg*. 2022 Jul;224(1 Pt A):6-7. doi: 10.1016/j.amjsurg.2022.04.013. Epub 2022 Apr 18. PMID: 35450747.
2. Menikdiwela KR, Kahathuduwa C, Bolner ML, **Rahman RL**, Moustaid-Moussa N. Association between Obesity, Race or Ethnicity, and Luminal Subtypes of Breast Cancer. *Biomedicines*. 2022 Nov 15;10(11):2931. doi: 10.3390/biomedicines10112931. PMID: 36428500; PMCID: PMC9687751.
3. Macha SJ, Koneru B, Burrow TA, Zhu C, Savitski D, **Rahman RL**, Ronaghan CA, Nance J, McCoy K, Eslinger C, Reynolds CP. Alternative Lengthening of Telomeres in Cancer Confers a Vulnerability to Reactivation of p53 Function. *Cancer Res*. 2022 Sep 16;82(18):3345-3358. doi: 10.1158/0008-5472.CAN-22-0125. PMID: 35947641; PMCID: PMC9566554.
4. Whitworth PW, Beitsch PD, Murray MK, Richards PD, Mislowsky A, Dul CL, Pellicane JV, Baron PL, **Rahman RL**, Lee LA, Dupree BB, Kelemen PR, Ashikari AY, Budway RJ, Lopez-Penalver C, Dooley W, Wang S, Dauer P, Menicucci AR, Yoder EB, Finn C, Blumencranz LE, Audeh W. Genomic Classification of HER2-Positive Patients With 80-Gene and 70-Gene Signatures Identifies Diversity in Clinical Outcomes With HER2-Targeted Neoadjuvant Therapy. *JCO Precis Oncol*. 2022 Sep;6:e2200197. doi: 10.1200/PO.22.00197. PMID: 36108259; PMCID: PMC9489196.
5. Whitworth P, Beitsch PD, Pellicane JV, Baron PL, Lee LA, Dul CL, Nash CH 3rd, Murray MK, Richards PD, Gittleman M, Budway R, **Rahman RL**, Kelemen P, Dooley WC, Rock DT, Cowan K, Lesnikoski BA, Barone JL, Ashikari AY, Dupree B, Wang S, Menicucci AR, Yoder EB, Finn C, Corcoran K, Blumencranz LE, Audeh W; NBRST Investigators Group. Age-Independent Preoperative Chemosensitivity and 5-Year Outcome Determined by Combined 70- and 80-Gene Signature in a Prospective Trial in Early-Stage Breast Cancer. *Ann Surg Oncol*. 2022 Apr 4;29(7):4141–52. doi: 10.1245/s10434-022-11666-2. Epub ahead of print. PMID: 35378634; PMCID: PMC9174138.
6. Whitworth PW, Beitsch PD, Pellicane JV, Baron PL, Lee LA, Dul CL, Murray MK, Gittleman MA, Budway RJ, **Rahman RL**, Kelemen PR, Dooley WC, Rock DT, Cowan KH, Lesnikoski BA, Barone JL, Ashikari AY, Dupree BB, Wang S, Menicucci AR, Yoder EB, Finn C, Corcoran K, Blumencranz LE, Audeh W; NBRST Investigators Group. Distinct Neoadjuvant Chemotherapy Response and 5-Year Outcome in Patients With Estrogen Receptor-Positive, Human Epidermal Growth Factor Receptor 2-Negative Breast Tumors That Reclassify as Basal-Type by the 80-Gene Signature. *JCO Precis Oncol*. 2022 Apr;6(1):e2100463. doi: 10.1200/PO.21.00463. PMID: 35476550; PMCID: PMC9200401.

Shen, Chwan-Li (Leslie)

Publications:

1. **Shen CL**, Dufour JM, Miranda JM, Kaur G, Chung E, Cao JJ. Effect of dietary geranylgeraniol and green tea polyphenols on glucose homeostasis, bone turnover biomarkers, and bone microstructure in obese mice. *International Journal of Molecular Sciences*. Special Issue: Bioactive Compounds: From Diet to Therapeutic Use. (in press)
2. Dhanasekara C, Payberah D, Chyu JY, **Shen CL**, Kahathuduwa C. The Effectiveness of Botulinum Toxin in the Prevention and Treatment of Chronic Tension-Type Headaches: A Systematic Review and Meta-Analysis. *Cephalalgia* (in press)

3. Masud AA, **Shen CL**, Chyu MC. On the Optimal Whole-Body Vibration Protocol for Muscle Strength. "Biomechanics". Special Issue: "Effect of Neuromuscular Deficit on Gait". 2022. (in press).
4. Wang R, Santos JM, Dufour JM, Stephens ER, Miranda JM, Washburn RL, Hibler T, Kaur G, Lin D, **Shen CL** (corresponding author). Ginger root extract improves GI health in diabetic rats by improving intestinal integrity and mitochondrial dysfunction. *Nutrients*. 2022 Oct 19;14(20):4384. doi: 10.3390/nu14204384.
5. **Shen CL**, Elmassry MM, Grue K, Joiner HE, Jacobo AU, Hamood A, Chung E, Geranylgeraniol and green tea polyphenols mitigate negative effects of a high-fat diet on skeletal muscle and the gut microbiome. *Metabolites*. 2022 Sep 27;12(10):913. doi: 10.3390/metabo12100913.
6. Jiwan NC, Appell CR, Wang R, **Shen CL**, Luk H-Y, Geranylgeraniol Supplementation Mitigates Soleus Muscle Atrophy via Changes in Mitochondrial Quality in Diabetic Rats. *In Vivo*. Nov-Dec; 36(6):2638-2649.
7. **Shen CL**, Wang R, Yakhnitsa V, Santos J, Watson C, Kiritoshi T, Ji C, Hamood A, Neugebauer V. Gingerol-enriched ginger supplementation mitigates neuropathic pain via mitigating intestinal permeability and neuroinflammation: gut-brain connection. *Frontiers in Pharmacology*. 2022. Jul 8;13:912609. doi: 10.3389/fphar.2022.912609. eCollection 2022.
8. **Shen CL**, Schuck A, Tompkins C, Dunn DM, Neugebauer V. Bioactive compounds for fibromyalgia-like symptoms: a narrative review and future perspectives. *International Journal of Environment Research and Public Health*, Special Issue: "Individual Difference in Pain in Various Populations". 2022, 19(7):4148.
9. Masud AA, **Shen CL**, Luk HY, Chyu MC. Impact of local vibration training on neuromuscular activity, muscle cell, and muscle strength: a review. *Critical Reviews in Biomedical Engineering*, 2022; 50(1):1-17.
10. **Shen CL**, Castro L, Fang C-Y, Castro M, Sherali S, White S, Wang R, Neugebauer V. Bioactive compounds for neuropathic pain: an update on preclinical studies and future perspectives. *Journal of Nutritional Biochemistry*. 2022; 104:108979. doi: 10.1016/j.jnutbio.2022.108979. Online ahead of print.
11. Chen JN, St-John JA, **Shen CL**, Dennis JA. Self-reported patient compliance with physician advised lifestyle behavior changes among adults with musculoskeletal conditions. *Frontiers in Public Health*. 2022; 10:821150.
12. **Shen CL**, Wang R, Ji G, Elmassry MM, Zabet-Moghaddam M, Vellers H, Hamood AN, Gong X, Mirzaei P, Sang S, Neugebauer V. Dietary supplementation of gingerols- and shogaols-enriched ginger root extract attenuate pain-associated behaviors while modulating gut microbiota and metabolites in rats with spinal nerve ligation. *Journal of Nutritional Biochemistry*, Special Issues: Precision nutrition – individual nutrient needs for optimal health throughout the lifespan. 2022; 100:108904. Online ahead of print.
13. **Shen CL**, Watkins BA, Kahathuduwa C, Chyu MC, Zabet-Moghaddam M, Elmassry MM, Luk H-Y, Brismee J-M, Knox A, Lee J, Zumwalt M, Wang R, Wager TD, Neugebauer V. Tai Chi improves brain functional connectivity and plasma lysophosphatidylcholines in postmenopausal women with knee osteoarthritis: an exploratory pilot study. *Frontiers in Medicine*. 2022; 8:775344.
14. Dhanasekara CS, Nelson A, Spradley M, Wynn A, Robohm-Leavitt C, **Shen CL**, Kahathuduwa C. Effects of Consumption of Coconut Oil or Coconut on Glycemic Control and Insulin Sensitivity: A Systematic Review and Meta-Analysis of Interventional Trials. *Nutrition, Metabolism and Cardiovascular Disease*. 2022; 32(1):53-68.

Abstracts: for internal or external conferences: * peer-reviewed

1. ***Shen CL**, Elmassry MM, Santos JM, Neugebauer V. Effects of two curcumin extracts on lipid and amino acid metabolites in amygdala and colon of rats with neuropathic pain. *Asia-Pacific Nutrigenomics and Nutrigenetics Organization (APNNO) 2022*.
2. ***Shen CL**, Elmassry MM, Santos J, Wang R, Yakhnitsa V, Kiritoshi T, Ji G, Lovett J, Hamood A, Neugebauer V. Two curcumin extracts modify composition of gut microbiota, tight junction protein, and neuroinflammation in rats with neuropathic pain: microbiota-gut-brain axis. *Nutrition 2022*.

3. *Santos JM, Wang R, Driver Z, Bhakta V, Contreras J, Yakhnitsa V, Kiritoshi T, Ji G, Neugebauer V, **Shen CL**. Curcumin and curcuminoid effects modulating chronic mechanical sensitivity in spinal nerve ligation model revert mitochondria dysfunction and oxidative stress. *Nutrition* 2022.
4. *Stephens ER, Santos JM, Wang R, **Shen CL**. Effects of dietary gingerol-enriched ginger supplementation on distribution of colon function markers in rats with diabetic neuropathic pain. *Nutrition* 2022.
5. ***Shen CL**, Wang R, Yakhnitsa V, Santos J, Watson C, Kiritoshi T, Ji G, Kim N, Lovett J, Hamood A, Neugebauer V. *Nutrition* 2022. Ginger root extract mitigates neuropathic pain via suppressing neuroinflammation: gut-brain connection. *Nutrition* 2022.
6. *Meister ML, **Shen CL**, Feresin RG. Dietary geranylgeraniol and statins may act synergistically to mitigate oxidative stress in obese mice. *Nutrition* 2022.
7. Bassett A, Hall R, Rodaniche A, Stephens E, Dhanasekara CS, Robohm-Leavitt C, **Shen CL**, Kahathuduwa CN. Effects of Repetitive Transcranial Magnetic Stimulation on Immediate Post-Intervention Chronic Daily Headache Intensity: A Systematic Review and Meta-Analysis. *CTNT* 2022
8. ***Shen CL**, Newman JW, Elmassry MM, Borkowski K, Chyu MC, Kahathuduwa C, Neugebauer V, Watkins BA. Tai Chi improves plasma levels of oxylipins and endocannabinoids in postmenopausal women with knee osteoarthritic pain. Presented at International Congress on Integrative Medicine and Health, Phoenix, AZM 2022.
9. ***Shen CL**, Casey Appell C, Jiwan NC, Wang R, Luk HY. Ginger root extract supplementation attenuated mitochondrial fusion and improved skeletal muscle size in type 2 diabetic rats. Internal Conference on Frailty and Sarcopenia Research, Boston, MA, 2022.
10. Stephens E, Bassett A, Hall R, Rodaniche A, Dhanasekara CS, Robohm-Leavitt C, **Shen CL**, Kahathuduwa CN. Effects of repetitive transcranial magnetic stimulation on intensity and frequency of chronic daily headaches: a systematic review and meta-analysis. *TTUHSC Student Research Week* 2022.
11. Watson C, Wang R, Yakhnitsa V, Santos JM, Kiritoshi T, Ji G, Neugebauer V, **Shen CL**. Ginger root extract improves mitochondrial dysfunction in NP model animals. *TTUHSC Student Research Week* 2022.
12. Viren Bhakta V, Santos JM, Wang R, Yakhnitsa V, Kiritoshi T, Ji G, Neugebauer V, **Shen CL**. Gingerol-Enriched ginger administration modifies mRNA gene expression in colon and spinal cord of animals with neuropathic pain. *TTU Student Research Week* 2022.
13. Driver Z, Santos JM, Wang R, Yakhnitsa V, Kiritoshi T, Ji G, Neugebauer V, **Shen CL**. Effect of gingerol-enhanced ginger on gut-brain-associated mitochondrial gene expression in animals with neuropathic pain. *TTU Student Research Week* 2022.
14. Contreras J, Santos JM, Stephens E, Driver Z, Bhakta V, Lovett J, Wang R, **Shen CL**. Effect of curcumin on the protein expression of MFN1 and GFAP proteins in colon of rat with neuropathic pain. *TTU Student Research Week* 2022.

Presentations:

1. **Shen CL**. Invited. My career path in integrative health. Asian Pacific American Medical Student Association (APAMSA). Region IX conference. 9/10/2022. Virtual oral presentation.
2. **Shen, CL**. Invited. Health Impacts of Green Tea in Musculoskeletal Health. Alzheimer's Awareness Month. 11/9/2022. Lubbock, TX.

Grants:

1. "Curcumin and Retinal Amyloid-beta Pilot Study". **Shen CL (PI)**. Kelly Mitchell (Co-I), Dale Dunn (Co-I), Jaehoon Lee (Co-I). The goal of this study is to test how two weeks of curcumin supplementation would cross the blood brain barrier (BBB) and attach to amyloid beta proteins, to assess the feasibility (safety and bioavailability), and to explore the resulting abundance/composition of gut microbiota. Sabinsa Corporation, East Windsor, NJ. 1/1/2022-12/31/2023. \$94,991.

2. “Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy”. **Shen CL (PI)**. Mohammad (Mac) Ansari (Co-I), Dale Dunn (Co-I), Scott Shurmur (consultant), Jaehoon Lee (Co-I), Hui-Ying Luk (Co-I), Martin Binks (Co-I). The goal of this study is to evaluate the effects of 3-months annatto-derived geranylgeraniol (GG) supplementation on statin-associated skeletal muscle health. Funded by American River Nutrition, LLC. \$266,294. 1/1/2022-12/31/2023.
3. “Ginger root extract for neuropathic pain”. **Shen CL (PI-contact, 4%)**, Neugebauer, Volker (MPI). USDA/NIFA. Award no: 2021-67017-34026. The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals. \$500,000. 1/1/2021-8/31/2023.
4. “Medication Development for the Treatment of Alcohol Use Disorder”. Bergeson S (PI-contact), **Shen CL (MPI, 33%)**. NIH/NIAAA. U01-AA028957. The goal of this study is to complete studies to prepare the chemically modified minocycline analogs for completion of investigational new drug (IND) enabling approval by the FDA and to begin a Phase I clinical trial. \$7,251,682. 9/20/2020-8/31/2025.
5. “Tai Chi for pain management: a pilot mechanistic study”. Center of Excellence for Translational Neurosciences and Therapeutics, TTUHSC. **Shen CL (PI, 3%)**. The goal of this study is to collect preliminary data on how Tai Chi may help with pain management of postmenopausal women with knee osteoarthritis and explore the molecular mechanism. \$18,000 from CTNT. \$6,000 matching fund Texas Tech University Neuroimaging Institute (TTNI). 12/1/2018-11/30/2023.
6. “Actions of dietary tocotrienols on obesity: ARN supplemental fund”. American River Nutrition, Inc., Hadley, MA. **Shen CL (PI, 3%)**. The goal of study is to test the hypothesis that tocotrienol supplementation improve lipid profiles and modify endocannabinoid and oxylipins in obese postmenopausal women. \$70,000. 11/1/2018-10/31/2023.
7. “Dietary tocotrienol (vitamin E isomer) supplement for postmenopausal women: aspects of metabolomics and gut microbiome”. Laura W. Bush Institute for Women’s Health. **Shen CL (PI, 3%)**. The goal of this study is to test dietary tocotrienol supplementation on metabolites and gut microbiome of obese women. \$10,000. 8/1/2018-3/31/2023.

Shin, Andrew

Publications:

1. Shah H, Kramer A, Mullins CA, Mattern M, Gannaban RB, Townsend RL, Campagna SR, Morrison CD, Berthoud HR, **Shin AC**. Reduction of plasma BCAAs following Roux-en-Y gastric bypass surgery is mediated by FGF21. *Frontiers in Endocrinology*, 2022 (under review)
2. Shah H, Haque Z, Ramezan M, Dehghani F, Gannaban RB, Rahimi F, Abbasi S, **Shin AC**. Revisiting the role of vitamins and minerals in Alzheimer’s disease. *Antioxidants*, 2022 (under review)
3. Zhou C, Ruiz H, Ling L, Maurizi G, Sakamoto K, Butera M, Libernini C, Wang L, Stanley A, **Shin AC**, Egritag H, Sanz S, Lindtner C, Buettner C. Adipose tissue lipolysis is a major driver of alcohol-induced fatty liver. *Hepatology*, 2022 (under review)
4. Benko S, Zhang F, **Shin AC**, Gillespie V, Zhang G, Gingold J, Andino B, Aguilo F, Chen CH, Li S, Lemischka I, Zhang WJ, Buettner C, Zhou MM, Walsh MJ. BRD4 regulates the enhancer landscape to modulate selective cell type-specific lipid metabolism. *Cell Reports*, 2022 (under review)
5. Siddik MAB, Mullins CA, Kramer A, Shah H, Gannaban RB, Zabet-Moghaddam M, Huebinger RM, Hegde VK, MohanKumar SMJ, MohanKumar PS, **Shin AC**. Branched-chain amino acids are linked with Alzheimer’s disease-related pathology and cognitive deficits. *Cells*, 2022 11(21): 3523
6. Della Guardia L, **Shin AC**. PM2.5-induced adipose tissue dysfunction can trigger metabolic disturbances. *Trends in Endocrinology & Metabolism*, 2022 Sep 26, Online ahead of print
7. Della Guardia L, **Shin AC**. The role of adipose tissue dysfunction in PM2.5-induced vascular pathology. *American Journal of Physiology – Heart Circ Physiol*, 2022 Jun 1; 322(6): H971-972
8. Della Guardia L, **Shin AC**. White and brown adipose tissue functionality is impaired by fine particulate matter (PM2.5) exposure. *Journal of Molecular Medicine*, 2022 Mar 14, Online ahead of print

Grants:

1. NIH R21 AG069140-01. BCAAs as a novel biomarker and treatment for Alzheimer's disease, Sep 2020 – Dec 2022. (PI: Andrew C. Shin)
2. NIH R01 AG071560-01A1. Serotonin-modulated mitochondrial dysfunction in dementia, depression and diabetes, Feb 2022 – Jan 2027. (PI: Arubala Reddy; Co-I: Andrew C. Shin)
3. NIH R01 1R01AG073826-01A1. The hippocampal dentate gyrus in aging and Alzheimer's disease: boosting transcription of retinoic acid-sensitive genes through vitamin A supplementation and HDAC inhibition, Aug 2022 – Apr 2027. (PI: John J. Lawrence; Co-I: Andrew C. Shin)
4. College of Human Sciences, TTU. The role of synbiotics in metabolic health and muscle tone in elder people, Oct 2022 – August 2023. (PI: Andrew C. Shin)
5. College of Human Sciences, TTU. Effects of BT2 on AD-related pathology in the brain, April 2022 – April 2023. (PI: Andrew C. Shin)
6. Wylie Briscoe Fund, College of Human Sciences, TTU. Serum metabolomics in women with Alzheimer's disease, Dec 2021 – Feb 2023. (PI: Andrew C. Shin)
7. Scientific & Technological Research Council of Turkey. The effects of central and systemic irisin on glucose homeostasis in diet-induced obese mice, Nov 2020 – Dec 2022. (PI: Hale E. Egritag; Co-PI: Andrew C. Shin)

Awards:

1. Apple Polishing Award, TTU Mortar Board, 2022
2. Open Access Initiative Award – Office of Research & Innovation, TTU, 2022
3. Nominated for Texas Tech Alumni Association New Faculty Award, 2022

Presentations: INVITED TALKS/LECTURES:

1. 2022 Seminar, Seoul National University, Department of Functional Neuroanatomy, Seoul, South Korea. Acute effects of BCAAs on glucose homeostasis and insulin sensitivity
2. 2022 Seminar, Seoul National University, Department of Medicine, Seoul, South Korea. A novel metabolic approach to treat Alzheimer's disease.
3. 2022 Seminar, 40th Annual US Foods: Food and Nutrition Seminar, Texas Tech University Weight control & the brain.

Conference talks:

1. Mullins CA, Shah H, Siddik MAB, Reddy PH, MohanKumar PS, **Shin AC**. Therapeutic effects of BT2 in the hippocampus of Alzheimer's disease mouse model. American Society for Nutrition (online conference), Jun 2022
2. Gannaban RB, Shah H, **Shin AC**. Acute exposure to branched-chain amino acids (BCAAs) impairs glucose homeostasis by promoting insulin resistance in mice. American Society for Nutrition (online conference), Jun 2022
3. Mullins CA, Shah H, Reddy PH, MohanKumar S, MohanKumar PS, **Shin AC**. A BCAA-lowering agent BT2 alleviates Alzheimer's disease-related pathology and delays cognitive decline in 5xFAD mouse model. Cold Spring Harbor Laboratory (CSHL) Conference, New York, Nov 2022
4. Mullins CA, Kramer A, Siddik MAB, Shah H, MohanKumar PS, **Shin AC**. BT2 alleviates brain pathology and improves neurotransmitter status in Alzheimer's disease mouse model. Center of Excellence for Translational Neuroscience and Therapeutics (CTNT) Annual Symposium, TTUHSC, Apr 2022

Conference posters:

1. Halbgewachs K, Buxton M, Zabet-Moghaddam M, Lawrence JJ, **Shin AC**. Blood-based lipidomic analyses in Alzheimer's disease: Investigating relationships between dysregulated lipid species and molecular mechanisms of oxidative stress. Center of Excellence for Translational Neuroscience and Therapeutics (CTNT) Annual Symposium, TTUHSC, Apr 2022
2. Kramer A, Shah H, Mattern M, Gannaban RB, Berthoud HR, **Shin AC**. FGF21 mediates restored BCAA metabolism following Roux-en-Y gastric bypass (RYGB) surgery in mice. Undergraduate Research Conference, TTU, Mar 2022

3. Mullins CA, Kramer A, Siddik MAB, Shah H, MohanKumar PS, **Shin AC**. BT2 alleviates brain pathology and improves neurotransmitter status in Alzheimer's disease mouse model. 21st Graduate Student Research Poster Competition, Mar 2022

Singh, Sharda

Publications:

1. Hindle A, Singh SP, Pradeepkiran JA, Bose C, Vijayan M, Kshirsagar S, Sawant NA, Reddy PH. Rlip76: An Unexplored Player in Neurodegeneration and Alzheimer's Disease? *Int J Mol Sci*. 2022 May 29;23(11):6098. doi: 10.3390/ijms23116098. PMID: 35682775; PMCID: PMC9181721.

Song, Huaxin

Publications:

1. Reyes AT, **Song H**, Bhatta TR, Kearney CA. Exploring the relationships between resilience, mindfulness, and experiential avoidance after the use of a mindfulness- and acceptance-based mobile app for posttraumatic stress disorder. *Perspect Psychiatr Care*. 2022 Apr;58(2):776-784. doi: 10.1111/ppc.12848. Epub 2021 May 20. PMID: 34018197.
2. Masten Y, **Song H**, Esperat CR, McMurry LJ. A maternity care home model of enhanced prenatal care to reduce preterm birth rate and NICU use. *Birth*. 2022 Mar;49(1):107-115. doi: 10.1111/birt.12579. Epub 2021 Aug 24. PMID: 34427349.
3. Esperat, M.C., Hust, C., **Song H.**, Garcia,M., & McMurry, L. (*in press*). Interprofessional Collaborative Practice: Management of Chronic Disease and Mental Health Issues in Primary Care. *Public Health Reports*
4. Eldridge, T. T., Martin, N., Campbell, L., **Song, H.**, & Frazier, L. (2022). Quality Improvement Project to Reduce Opioid Use in Patients Undergoing Cesarean Birth. *AORN journal*, 115(4), 327-336.

Grants:

1. HRSA-22-124 PI Linda McMurry 9/15/2023-9/14/2026. Community Health Worker Training Program (CHWTP)
Funding Agency: HRSA \$ 2,425,194. Role: Program evaluator/Statistician, Program Manager
2. HRSA-20-012 PI Linda McMurry 07/2020-06/2023. Nurse Education, Practice, Quality and Retention (NEPQR) Interprofessional Collaborative Practice Program (IPCP): Behavioral Health Integration (BHI). Funding Agency: HRSA \$1,461,487. Role: Program evaluator/Statistician, Program Manager

St-John, Julie

Publications:

1. **St. John, J.** (2022, Fall). Public Health, Populations, Purpose, Priorities, and Passion. *Rural Health Quarterly*. 3: 20-23. <https://ruralhealthquarterly.com/home/2022/10/03/rural-health-quarterly-fall-2022/>
2. Brooks T, **St. John J**, Gilbert K, & Guindon J (2022). Establishing a faculty development academy at a health sciences center: A needs assessment [Special Issue 15]. *Chronicle of Mentoring and Coaching*. 6(1).
3. Chen, J., Dennis, J. A., **St. John, J.A.**, Shen, C.L. (2022, February 24). Self-reported Patient Compliance with Physician Advised Lifestyle Behavior Changes Among Adults with Musculoskeletal Conditions. *Frontiers in Public Health, Public Health Education and Promotion*. 10: 821150. <https://doi.org/10.3389/fpubh.2022.821150>
4. **St. John, J. A.**, Fox, D. J., Rosenthal, E. L., Lee, L. K. (2022). Editorial: Community Health Workers Practice from Recruitment to Integration. *Frontiers in Public Health, Public Health Education and Promotion*, 10: 841081. <https://doi.org/10.3389/fpubh.2022.841081>
5. **St. John JA**, Hernández-Gordon, W., Martínez, S., Hernández, I. (2022, January/March). Community health workers connecting communities during Covid-19: A case study from Chicago, USA. *Journal of*

Presentations:

1. Applying Diffusion of Innovation to the Texas Mother Friendly Worksite Program: Does early adoption lead to lower rates of infant mortality? Jessyca Cripps, **Julie St. John**. Annual American Public Health Association Meeting, November 7, 2022, Boston, Massachusetts.
2. How CHW Associations Strengthen and Support the CHW Workforce: Examples from the Texas Association of Promotores and CHWs. Ashley Rodriquez, **Julie St. John**. Annual American Public Health Association Meeting, November 6, 2022, Boston, Massachusetts.
3. The C3 Project's next steps to an engaged national review of CHW roles and competencies. Lee Rosenthal, Paige Menking, **Julie St. John**, Lily Lee, & Durrell Fox. Annual American Public Health Association Meeting, November 6, 2022, Boston, Massachusetts.
4. Qualitative findings from a human trafficking community needs assessment conducted within a health sciences center. **Julie St. John**, Tiffany Hotchkiss, Abbey Weed. Annual American Public Health Association Meeting, November 7, 2022, Boston, Massachusetts.
5. Laughter Therapy (presenter). **Julie St. John**. Texas Association of Community Health Workers Annual Conference, Waco, Texas, September 20, 2022.
6. Determinantes sociales de la salud (Social Determinants of Health) (presenter). **Julie St. John**. Texas Association of Community Health Workers Annual Conference, Waco, Texas, September 19, 2022.
7. What CHWs told us about their experiences and needs during the COVID-19 pandemic. (speakers & panelist). **Julie St. John**, Venus Gines, Denise Hernandez, Rosalia Guerrero-Luera. UT Health School of Public Health, Texas Epidemic Public Health Institute (TEPHI) CHW Training Center Virtual Town Hall: "Supporting CHWs as part of the pandemic preparedness workforce: The role of the training centers in Texas." Webinar. August 25, 2022.
8. Human Trafficking is a Public Health Issue. (speaker). West Texas Pharmacy Association Annual Convention. Abilene, Texas, March 5, 2022.
9. Immigrants & Human Trafficking: Risk factors & Prevention. TTUHSC Human Trafficking and Social Justice Symposium: "Human Trafficking: Shining a Light on Vulnerable Populations." January 28, 2022, virtual.

FUNDED RESEARCH OR PRACTICE:

1. Health equity grant for Parmer, Deaf Smith, and Gray counties in Texas. Texas Department of State Health Services. Grant #: HHS00111770001. Role: Co-investigator, PI: Theresa Byrd. \$245,000 (December 17, 2021 – May 31, 2023).
2. Piloting a Composting Latrine Project in Pedregal Grande, Piura, Peru. TTUHSC Office of Global Health, \$10,000 (January 2021-December 2023).
3. International Rescue Committee, Abilene, Victims of Trafficking Program. OVC Fiscal Year (FY) 2019, Direct Services to Support Victims of Human Trafficking, Office for Victims of Crime, Office of Justice Programs, U.S. Department of Justice, CO-I & Evaluator, sub contracted, International Rescue Committee, \$28,168 (January 2020-December 2022).

Tinsley, Grant

Publications:

1. Santos HO, Genario R, **Tinsley GM**, Ribeiro P, Carteri RB, Coelho-Ravagnani CF, Mota JF. A scoping review of intermittent fasting, chronobiology, and metabolism. *Am J Clin Nutr.* 2022 Apr 1;115(4):991-1004. doi: 10.1093/ajcn/nqab433. PMID: 34978321.
2. Stratton MT, Albracht-Schulte K, Harty PS, Siedler MR, Rodriguez C, **Tinsley GM**. Physiological responses to acute fasting: implications for intermittent fasting programs. *Nutr Rev.* 2022 Feb 10;80(3):439-452. doi: 10.1093/nutrit/nuab094. PMID: 35142356.

3. **Tinsley GM**, Harty PS, Stratton MT, Siedler MR, Rodriguez C. Liposomal Mineral Absorption: A Randomized Crossover Trial. *Nutrients*. 2022 Aug 13;14(16):3321. doi: 10.3390/nu14163321. PMID: 36014827; PMCID: PMC9414097.
4. Graybeal AJ, Willis JL, Morales-Marroquin E, **Tinsley GM**, Messiah SE, Shah M. Emerging evidence of the relationship between fat-free mass and ghrelin, glucagon-like peptide-1, and peptide-YY. *Nutrition*. 2022 Nov-Dec;103-104:111815. doi: 10.1016/j.nut.2022.111815. Epub 2022 Aug 12. PMID: 36088864.
5. Harty PS, Friedl KE, Nindl BC, Harry JR, Vellers HL, **Tinsley GM**. Military Body Composition Standards and Physical Performance: Historical Perspectives and Future Directions. *J Strength Cond Res*. 2022 Dec 1;36(12):3551-3561. doi: 10.1519/JSC.0000000000004142. Epub 2021 Sep 29. PMID: 34593729.
6. Tesch JC, Papadopoulos P, Dolgener F, **Tinsley GM**. New Equations for Hydrostatic Weighing without Head Submersion. *J Funct Morphol Kinesiol*. 2022 Sep 16;7(3):70. doi: 10.3390/jfmk7030070. PMID: 36135428; PMCID: PMC9506326.
7. Blue MNM, Hirsch KR, Brewer GJ, Cabre HE, Gould LM, **Tinsley GM**, Ng BK, Ryan ED, Padua D, Smith-Ryan AE. The validation of contemporary body composition methods in various races and ethnicities. *Br J Nutr*. 2022 Feb 3:1-11. doi: 10.1017/S0007114522000368. Epub ahead of print. PMID: 35109945.
8. Ashtary-Larky D, Bagheri R, **Tinsley GM**, Asbaghi O, Salehpour S, Kashkooli S, Kooti W, Wong A. Betaine supplementation fails to improve body composition: a systematic review and meta-analysis. *Br J Nutr*. 2022 Sep 14;128(5):975-988. doi: 10.1017/S0007114521004062. Epub 2021 Oct 7. PMID: 34743773.
9. Santos HO, Cerqueira HS, **Tinsley GM**. The Effects of Dietary Supplements, Nutraceutical Agents, and Physical Exercise on Myostatin Levels: Hope or Hype? *Metabolites*. 2022 Nov 20;12(11):1146. doi: 10.3390/metabo12111146. PMID: 36422286; PMCID: PMC9695935.
10. Siedler MR, Rodriguez C, Stratton MT, Harty PS, Keith DS, Green JJ, Boykin JR, White SJ, Williams AD, DeHaven B, **Tinsley GM**. Assessing the Reliability and Cross-Sectional and Longitudinal Validity of 15 Bioelectrical Impedance Analysis Devices. *Br J Nutr*. 2022 Nov 21:1-29. doi: 10.1017/S0007114522003749. Epub ahead of print. PMID: 36404739.
11. Brandner CF, **Tinsley GM**, Graybeal AJ. Smartwatch-based bioimpedance analysis for body composition estimation: precision and agreement with a 4-compartment model. *Appl Physiol Nutr Metab*. 2022 Dec 3. doi: 10.1139/apnm-2022-0301. Epub ahead of print. PMID: 36462216.
12. **Tinsley GM**, Harty PS, Stratton MT, Smith RW, Rodriguez C, Siedler MR. Tracking changes in body composition: comparison of methods and influence of pre-assessment standardisation. *Br J Nutr*. 2022 Jun 14;127(11):1656-1674. doi: 10.1017/S0007114521002579. Epub 2021 Jul 30. PMID: 34325758.
13. Graybeal AJ, Brandner CF, **Tinsley GM**. Validity and reliability of a mobile digital imaging analysis trained by a four-compartment model. *J Hum Nutr Diet*. 2022 Nov 30. doi: 10.1111/jhn.13113. Epub ahead of print. PMID: 36451080.
14. **Tinsley GM**, Stratton MT, Harty PS, Williams AD, White SJ, Rodriguez C, Dellinger JR, Johnson BA, Smith RW, Trexler ET. Influence of Acute Water Ingestion and Prolonged Standing on Raw Bioimpedance and Subsequent Body Fluid and Composition Estimates. *J Electr Bioimpedance*. 2022 May 20;13(1):10-20. doi: 10.2478/joeb-2022-0003. PMID: 35646197; PMCID: PMC9124033.
15. Stratton MT, Siedler MR, Harty PS, Rodriguez C, Boykin JR, Green JJ, Keith DS, White SJ, DeHaven B, Williams AD, **Tinsley GM**. The influence of caffeinated and non-caffeinated multi-ingredient pre-workout supplements on resistance exercise performance and subjective outcomes. *J Int Soc Sports Nutr*. 2022 Apr 4;19(1):126-149. doi: 10.1080/15502783.2022.2060048. PMID: 35599920; PMCID: PMC9116396.
16. Bongiovanni T, **Tinsley G**, Martera G, Orlandi C, Genovesi F, Puleo G, Rossi A, Trecroci A. Regional Lean Soft Tissue and Intracellular Water Are Associated with Changes in Lower-Body Neuromuscular Performance: A Pilot Study in Elite Soccer Players. *Eur J Investig Health Psychol Educ*. 2022 Jul 22;12(8):882-892. doi: 10.3390/ejihpe12080064. PMID: 35893080; PMCID: PMC9332301.
17. Graybeal AJ, Brandner CF, **Tinsley GM**. Visual body composition assessment methods: A 4-compartment model comparison of smartphone-based artificial intelligence for body composition

- estimation in healthy adults. *Clin Nutr.* 2022 Nov;41(11):2464-2472. doi: 10.1016/j.clnu.2022.09.014. Epub 2022 Sep 29. PMID: 36215866.
18. Graybeal AJ, Brandner CF, **Tinsley GM**. Visual body composition assessment methods: A 4-compartment model comparison of smartphone-based artificial intelligence for body composition estimation in healthy adults. *Clin Nutr.* 2022 Nov;41(11):2464-2472. doi: 10.1016/j.clnu.2022.09.014. Epub 2022 Sep 29. PMID: 36215866.
 19. Graybeal AJ, Brandner CF, **Tinsley GM**, Haynes H, Stavres J. Associations between visceral adipose tissue estimates produced by near-infrared spectroscopy, mobile anthropometrics, and traditional body composition assessments and estimates derived from dual-energy X-ray absorptiometry. *Br J Nutr.* 2022 Oct 21:1-11. doi: 10.1017/S0007114522003488. Epub ahead of print. PMID: 36268732.
 20. Giro R, Matias CN, Campa F, Santos DA, Cavaca ML, Duque P, Oliveira M, Matos N, Vicente F, Pereira P, Santos HO, **Tinsley GM**, Teixeira FJ. Development and Validation of an Anthropometric Equation to Predict Fat Mass Percentage in Professional and Semi-Professional Male Futsal Players. *Nutrients.* 2022 Oct 27;14(21):4514. doi: 10.3390/nu14214514. PMID: 36364777; PMCID: PMC9655567.
 21. Rodriguez C, Harty PS, Stratton MT, Siedler MR, Smith RW, Johnson BA, Dellinger JR, Williams AD, White SJ, Benavides ML, **Tinsley GM**. Comparison of Indirect Calorimetry and Common Prediction Equations for Evaluating Changes in Resting Metabolic Rate Induced by Resistance Training and a Hypercaloric Diet. *J Strength Cond Res.* 2022 Nov 1;36(11):3093-3104. doi: 10.1519/JSC.0000000000004077. Epub 2021 Jun 22. PMID: 34172636.
 22. Barakat C, Escalante G, Stevenson SW, Bradshaw JT, Barsuhn A, **Tinsley GM**, Walters J. Can Bodybuilding Peak Week Manipulations Favorably Affect Muscle Size, Subcutaneous Thickness, and Related Body Composition Variables? A Case Study. *Sports (Basel).* 2022 Jul 5;10(7):106. doi: 10.3390/sports10070106. PMID: 35878117; PMCID: PMC9321665.
 23. Graybeal AJ, Brandner CF, **Tinsley GM**. Evaluation of automated anthropometrics produced by smartphone-based machine learning: a comparison with traditional anthropometric assessments. *Br J Nutr.* 2023 Jan 12:1-29. doi: 10.1017/S0007114523000090. Epub ahead of print. PMID: 36632007.
 24. Kord-Varkaneh H, Salehi-Sahlabadi A, **Tinsley GM**, Santos HO, Hekmatdoost A. Effects of time-restricted feeding (16/8) combined with a low-sugar diet on the management of non-alcoholic fatty liver disease: A randomized controlled trial. *Nutrition.* 2023 Jan;105:111847. doi: 10.1016/j.nut.2022.111847. Epub 2022 Sep 13. PMID: 36257081.

Abstracts:

1. P. Harty, M. Stratton, G. Escalante, M. Siedler, C. Rodriguez, J. Dellinger, A. Williams, S. White, R. Smith, B. Johnson, and **G. Tinsley**. "Isokinetic Squat Performance Is Associated With Leg Press One-Repetition Maximum but Not Repetitions to Fatigue". In: *Journal of strength and conditioning research* 35.12 (2021), pp. 291-446. DOI: 10.1519/JSC.0000000000004141.
2. M. Stratton, P. Harty, M. Siedler, C. Rodriguez, R. Smith, A. Williams, S. White, J. Dellinger, and **G. Tinsley**. "Comparison Between Changes in Muscular Performance and Dual-Energy X-Ray Absorptiometry Segmental Lean Mass after Overfeeding With Resistance Training". In: *Journal of strength and conditioning research* 35.12 (2021), pp. 291-446. DOI: 10.1519/JSC.0000000000004141. PROFESSIONAL ORGANIZATIONS|||SELECTED CONSULTING ACTIVITIES||ABSTRACTS□□□
3. D. Keith, J. Boykin, C. Harrison, J. Zaragoza, J. Prather, M. Tinnin, L. Taylor, and **G. Tinsley**. "Relationship Between Changes in Upper Body Fat-Free Mass and Bench Press Performance in American Football Players". In: *International journal of exercise science: conference proceedings* 2.14 (2022), p. 24. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/24>.
4. M. Siedler, C. Rodriguez, M. Stratton, P. Harty, D. Keith, J. Green, J. Boykin, S. White, A. D. Williams, B. DeHaven, and **G. Tinsley**. "A Between-sex Comparison of the Validity of Body Fat Percentage Estimates From Four Bioelectrical Impedance Analyzers". In: *International journal of exercise science: conference proceedings* 2.14 (2022), p. 29. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/29>.

5. J. Boykin, D. Keith, C. Harrison, J. A. Zaragoza, J. Prather, M. Tinnin, L. W. Taylor Iv, and **G. Tinsley**. "Associations of Changes in Body Composition and Athletic Performance in Collegiate American Football Players". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 27. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/27>.
6. J. Green, A. Ambrosius, C. Dodge, B. Merfeld, C. Khurelbaatar, M. Carpenter, P. Harty, C. Rodriguez, M. Siedler, M. Stratton, D. Keith, J. Boykin, A. Jagim, and **G. Tinsley**. "Assessment of Youth Athlete Body Composition using Bioimpedance Techniques as Compared to a Three-Compartment Model". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 18. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/18>.
7. G. DeHaven, M. Siedler, C. Rodriguez, S. White, A. Williams, P. Harty, M. T. Stratton, D. Keith, J. Green, J. Boykin, and **G. Tinsley**. "Comparison of Laboratory-Grade and Consumer-Grade Hand-to-Foot Bioelectrical Impedance Analyzers for Body Composition Estimation". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 11. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/11>.
8. C. Florez, **G. Tinsley**, J. Prather, J. Zaragoza, C. Teague, K. Glenn, J. Kelly, M. Bourque, M. Hockett, A. Gutierrez, M. Tinnin, K. Brennan, and L. Taylor. "Body Fluid Estimation Via Segmental Multi-Frequency Bioelectrical Impedance Analysis Following Acute Resistance Exercise". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 5. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/5>.
9. J. Prather, C. Harrison, A. Vargas, B. Soto, A. Harrison, M. Tinnin, **G. Tinsley**, D. Willoughby, and L. Taylor. "The Effects of a Thermogenic Supplement on Metabolic and Hemodynamic Variables and Subjective Mood States". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 4. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/4>.
10. S. White, M. Siedler, C. Rodriguez, A. Williams, G. DeHaven, P. S. Harty, M. Stratton, D. Keith, J. Green, J. Boykin, and **G. Tinsley**. "Validity of Hand-to-Foot and Foot-to-Foot Consumer Bioimpedance Analyzers: A Four-Compartment Model Comparison". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 3. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/3>.
11. C. Rodriguez, C. Harrison, J. Prather, J. A. Zaragoza, C. Teague, K. Glenn, J. Kelly, M. Bourque, M. Hockett, A. Gutierrez, M. Tinnin, K. Brennan, L. Taylor, and **G. Tinsley**. "Acute Resistance Exercise Influences Bioelectrical Impedance Analysis Segmental Fat Mass Estimates". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 2. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/2>.
12. P. Harty, A. Ambrosius, C. Dodge, B. Merfeld, C. Khurelbaatar, M. Carpenter, M. Siedler, M. Stratton, C. Rodriguez, J. Green, D. Keith, J. Boykin, A. Jagim, and **G. Tinsley**. "Body Composition Estimation in Youth Athletes: Agreement Between Two-Component Methods". In: International journal of exercise science: conference proceedings 2.14 (2022), p. 50. URL: <https://digitalcommons.wku.edu/ijesab/vol2/iss14/50>.
13. J. Boykin, M. Stratton, M. Siedler, P. Harty, C. Rodriguez, J. Green, A. Williams, D. Keith, S. White, B. DeHaven, and **G. Tinsley**. "Acute Effects of Caffeinated and Non-Caffeinated Pre-Workout Supplement Consumption on Eccentric and Concentric Force Production During an Isokinetic Squat Exercise". In: Journal of the International Society of Sports Nutrition 19.S1 (2022), pp. 1-69. DOI: 10.1080/15502783.2022.2056381.
14. J. Green, P. Harty, M. Stratton, M. Siedler, C. Rodriguez, J. Boykin, D. Keith, S. White, B. DeHaven, A. Williams, and **G. Tinsley**. "Differential Effects of Caffeinated and Stimulant-Free Pre-Workout Supplements on Ratings of Perceived Energy, Focus, and Fatigue". In: Journal of the International Society of Sports Nutrition 19.S1 (2022), pp. 1-69. DOI: 10.1080/15502783.2022.2056381.
15. C. Rodriguez, M. Stratton, M. Siedler, P. Harty, J. Boykin, J. Green, D. Keith, S. White, A. Williams, B. DeHaven, and **G. Tinsley**. "Influence of Caffeinated and Non-Caffeinated Pre-Workout Supplements on Maximal and Rapid Isometric Strength Characteristics". In: Journal of the International Society of Sports Nutrition 19.S1 (2022), pp. 1-69. DOI: 10.1080/15502783.2022.2056381.
16. M. Siedler, M. Humphries, P. Lamadrid, G. Mastrofi ni, J. Gegenheimer, A. Ibrahim, A. Brooks, T. Smith, **G. Tinsley**, and B. Campbell. "Baseline Anthropometric, Dietary intake, and Behavioral

Variables Do Not Predict Study Completion or Fat Loss Success in Young, Resistance-trained Females Undergoing a Dietary Intervention". In: *Journal of the International Society of Sports Nutrition* 19.S1 (2022), pp. 1-69. DOI:10.1080/15502783.2022.2056381.

17. M. Stratton, M. Siedler, P. Harty, C. Rodriguez, J. Boykin, J. Green, D. Keith, S. White, B. DeHaven, A. Williams, and **G. Tinsley**. "The Influence of Caffeinated and Non-Caffeinated Pre-Workout Supplements on Resistance Exercise Performance". In: *Journal of the International Society of Sports Nutrition* 19.S1 (2022), pp. 1-69. DOI:10.1080/15502783.2022.2056381.

Grants:

1. Chronic Thermogenic Dietary Supplement Consumption: Effects on Body Composition, Anthropometrics, Metabolism, and Subjective Variables (A23-0089-001). Sponsor: EHP Labs. 2022 - 2023. Role: Lead Principal Investigator Amount: \$85,378
2. Digital Anthropometry and Body Composition Estimation Using a Generation 2 Prototype 3-Dimensional Optical Scanner (A22-0305-001). Sponsor: Prism Labs. 2022 - 2023- Role: Lead Principal Investigator Amount: \$32,756
3. Metabolic Effects of a Novel Ready-to-drink Thermogenic Beverage (A22-0092-001). Sponsor: EHP Labs. 2021 - 2022. Role: Lead Principal Investigator. Amount: \$28,401
4. Pharmacokinetic Analysis of Nutrient Absorption from a Novel Liposomal Multivitamin/mineral Formulation (A21-0282-001). Sponsor: Nutraceutical International Corporation. 2021 - 2022 Role: Lead Principal Investigator. Amount: \$159,341
5. Evaluation of Novel Beverage Formulations for Hydration Enhancement in Humans (A21-0284-001). Sponsor: 8 POiNT, LLC. 2021 - 2022. Role: Lead Principal Investigator. Amount: \$35,000
6. Quantifying the Relationship Between Anthropometry, Body Composition, and Performance on the Army Combat Fitness Test (A21-0261-001). Sponsor: Texas Chapter of the American College of Sports Medicine [Doctoral Student Research Development Award: Patrick Harty]. 2021 - 2022. Role: Lead Principal Investigator Amount: \$1,750

Zhang, Fangyuan

Publications:

1. Shrestha, K., Li, H. F., Santos, A. P., Vaughan, J., **Zhang, F.**, Kurian, A. S., Couch, B., Bayouth, C. (2022). Local Infiltration of Liposomal Bupivacaine in Isolated Traumatic Rib Fractures. *Journal of the American College of Surgeon*, 235(5), S87-88.
2. Tian, S., Wang, J., **Zhang, F.**, Wang, D. (2022). Comparative analysis of microRNA binding site distribution and microRNA-mediated gene expression repression of oncogenes and tumor suppressor genes. *Genes*, 13(3), 481. 4 = Highly respected in field, refereed.
3. Neupane, J., Guo, W., Cao, G., **Zhang, F.**, Slaughter, L., Deb, S. (2022). Spatial patterns of soil microbial communities and implications for precision soil management at the field scale. *Precision Agriculture*, 23, 1008–1026. <https://doi.org/10.1007/s11119-021-09872-1> 4 = Highly respected in field, refereed.

Zu, Yujiao

Publication:

1. Pal, A., Sun, S., Armstrong, M., Manke, J., Reisdorph, N., Adams, V. R., Kennedy, A., Zu, Y., Moustaid-Moussa, N., Carroll, I., Shaikh, S. R. (2022). Beneficial effects of eicosapentaenoic acid on the metabolic profile of obese female mice entails upregulation of HEPEs and increased abundance of enteric *Akkermansia muciniphila*. *Molecular and Cell Biology of Lipids*, 1867(1).

Abstracts:

1. Zu, Y., Moustaid-Moussa, N. (2022). 8-Hydroxyeicosapentaenoic Acid Reduces Adipogenesis and Inflammation in 3T3-L1 Adipocytes (Issue Supplement_1 ed., vol. Volume 6, pp. Page 1100).
2. Zu, Y., Moustaid-Moussa, N. Temperature-Dependent Effects of Eicosapentaenoic Acid (EPA) on Browning of Subcutaneous Adipose Tissue in UCP1 Knockout Male Mice. *Molecular Metabolism*.

3. Yavari, M., Ramalingam, L., N., C., Chavira, A., Biltz, C., Mounce, I., Maldonado, K. A., Scoggin, S., Zu, Y., Kalupahana, N. S., Yosofvand, M., Moussa, H., Moustaid-Moussa, N. Eicosapentaenoic Acid Protects Against Metabolic Impairments in the APP^{swe}PS1dE9 Alzheimer's Disease Mouse Model. *The Journal of Nutrition*.

Presentation:

1. Zu, Y. (Presenter & Author), ObesityWeek, "Beneficial effects of eicosapentaenoic acid in glycerol 3-phosphate dehydrogenase 2 deficient mice," The Obesity Society, San Diego, CA. (November 2022, Poster).
2. Zu, Y. (Presenter & Author), Nutrition 2022, "8-hydroxyeicosapentaenoic acid reduces adipogenesis and inflammation in 3t3-L1 adipocytes," American Society of Nutrition, online. (June 2022, Oral).

Grant awards:

Federal:

1. Zu, Yujiao, Moustaid-Moussa, Naima, "Novel prebiotic nanoparticles to enhance tart cherry anthocyanin bioavailability and improve gut health in obesity," USDA-AFRI New Investigator Seed Grant (Recommend to an award)

Internal:

1. Zu, Yujiao, "Healthy fats that fight body fats" TTU COHS Internal Grant (Awarded)
2. Zu, Yujiao, Moustaid-Moussa, Naima, "Protective effects of shogaol in obesity-related breast cancer", TTU COHS Internal Grant, (Awarded)

Zumwalt, Mimi

Publications:

1. Shen CL, Watkins BA, Kahathuduwa C, Chyu MC, Zabet M, Elmassry MM, Luk HY, Brismee JM, Knox A, Lee J, **Zumwalt M**, Wang R, Wager TD, Neugebauer V. Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women with Knee Osteoarthritis: An Exploratory Pilot Study. *Frontiers in Medicine*, section Rheumatology. 2022;8:775344. <https://www.frontiersin.org/articles/10.3389/fmed.2021.775344/full>
2. Petrie KA, Chen JN, Miers H, Grimes JS, **Zumwalt M**. Gender Differences in Seeking Health Care and Postintervention Pain Outcomes in Foot and Ankle Orthopedic Patients. *Womens Health Rep (New Rochelle)*. 2022 May 9;3(1):500-507. doi: 10.1089/whr.2021.0076. PMID: 35652003; PMCID: PMC9148655.
3. Hayward D, Dowdle TS, Steadman J, Froerer D, Perry C, **Zumwalt M**. Orthopaedic surgery residency match trends during COVID-19 pandemic: a cross-sectional study. *Curr Orthop Pract*. 2022 Jul 20;33(5):458-460. doi: 10.1097/BCO.0000000000001139. PMID: 36033129; PMCID: PMC9394201.
4. Caleb Hawkes, MBA; Dan Hayward, MBA; Cody Perry; Werner de Riese, MD, PhD; **Mimi Zumwalt, MD**. Potential Patient Bias by Insurance Coverage on CG-CAHPS Surveys and its Impact on Physician Reimbursement. *Journal of Orthopaedic Business* (2022) Vol 2, No.3. DOI: <https://doi.org/10.55576/job.v2i3.18>

Presentations:

Poster:

1. Nicolas Householder, Elwin Rutayomba, Kofi Agyare, **Mimi Zumwalt, MD**. Experimental intra-articular injections for the treatment of primary knee OA. TTUHSC Research Week, March 2022
2. Kristin Huseman, Adilene Chapina-Guizar, **Mimi Zumwalt, MD**. COVID-19's Impact on TTUHSC Graduate & Medical Students' Exercise Routines. TTUHSC Research Week, March 2022.
3. Nicolas Householder, Elwin Rutayomba, Kofi Agyare, **Mimi Zumwalt, MD**. Literature review - experimental intra-articular injections targeting reversal of OA pathology. Texas Surgical Society Conference, April 2022

Appendix: 2023 CEIH members: publication, presentations, grants, awards

Albracht, Kembra

Publication

Peer-referred article

1. Salas-Groves, E., Childress, A., Albracht-Schulte, K., Alcorn, M., Galyean, S. (2023). Effectiveness of a home-based exercise and nutrition program for senior adults on muscle quality: A scoping review. *Clinical Interventions in Aging*, 18, 1067-1091.
2. Siedler, M., De Souza, M.J., Albracht-Schulte, K., Sekiguchi, Y., Tinsley, G.M. (2023). The Influence of Energy Balance and Availability on Resting Metabolic Rate: Implications for Assessment and Future Research Directions. *Sports Med*, 53(8), 1507-1526. <https://doi.org/10.1007/s40279-023-01856-7>
3. Islam, T., Albracht-Schulte, K., Ramalingam, L., Schlabritz-Lutsevich, N., Park, O.-H., Zabet Moghaddam, M., Kalupahana, N. S., Moustaid-Moussa, N. (2023). Anti-inflammatory mechanisms of polyphenols in adipose tissue: role of gut microbiota, intestinal barrier integrity and zinc homeostasis. *The Journal of Nutritional Biochemistry*, 115, 109242.

Book chapter

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.

Al-Rahawan, Mohamad

Publication

Peer-referred article

1. Eldem İ, Al Madni O, Levent F, Almekdash MH, Al-Rahawan MM. Red blood cell distribution width as a potential inflammatory marker in pediatric osteomyelitis. *Proc (Bayl Univ Med Cent)*. 2023 May 11;36(4):443-447.

Presentation

Poster

1. September 2023 Poster: Evaluating urine pH and specific gravity: A single center experience comparing different urine testing methods in children receiving high-dose methotrexate; The Pediatric Medical Student Research Forum in Orlando, FL; Presented by the first author, Joanna Chyu, MS-III.
2. March 2023 Poster: Evaluating the incidence of fever following vincristine administration in pediatric patients through a retrospective chart review; Texas Tech University Health Science Center Student Research Week; Lubbock TX; Presented by the first author, Tenley Lehman, MS-II.
3. January 2023 Poster: Report on Toxicity of Cancer Therapy in Children from West Texas Enrolled on ACCESS Study; Western Medical Research Conference; Carmel, California Presented by, Katherine Mitchell, MS-III.

Bennett, Margaret

Publication

Peer-referred article

1. Adams, O.R., Holder-Dixon, A., Campbell, J.T., Bennett-Brown, M., Moscovici, Z., & Gesselman, A.N. (2023). Medical mistrust and healthcare seeking behaviors among women of color with chronic vulvovaginal pain. *International Journal of Behavioral Medicine*. <https://doi.org/10.1007/s12529-023-10236-4>

2. Denes, A., Crowley, J.P., Gasiorek, J., Dhillon, A., Bennett-Brown, M., Winkler, K.L., & Ponivas, A.L.P. (2023). Exploring linguistic markers, threat appraisals, and genetic variation during mixed-sex couples' conflict conversations. *Personal Relationships*. <https://doi.org/10.1111/pere.12525>
3. Bennett-Brown, M., Kaufman, E.M., Marcotte, A.S., & Gesselman, A.N (2023). Cam site clients' perceptions of changes to their communication skills: Associations with psychological need fulfillment. *Sexuality & Culture*. <https://doi.org/10.1007/s12119-023-10121-y>
4. Bennett-Brown, M., Gesselman, A.N., & + Edmund, E. (2023). COVID-19 attitudes, cognitions, and behaviors in association with personal ideology and social media exposure: Findings from emerging adults in the Southern United States. *Social and Personality Psychology Compass*. <https://doi.org/10.1111/spc3.12772>
5. Campbell, J. T., Bennett-Brown, M., Marcotte, A. S., Kaufman, E. M., Moscovici, Z., Adams, O. R., Lovins, S., Garcia, J.R., & Gesselman, A. N. (2023). American singles' attitudes toward future romantic/sexual partners' COVID-19 vaccination status: Evidence for both vigilance and indifference in a national sample. *Sexuality & Culture*. <https://doi.org/10.1007/s12119-023-10097-9>

Presentation

Poster

1. Bennett-Brown, M.,+ Smith, C. R. ,+ Chakraborty, J., & Gesselman, A.N. (2023, November). Analyzing the impact of partnered pornography use on talk during sexual activity. Poster presented at the annual meeting of The Society for the Scientific Study of Sexuality in New Orleans, LA.
2. Gesselman, A.N., Campbell, J.T., Bennett-Brown, M., Kaufman, E.M., Dubé, S., +Moscovici, Z., & +Piazza, M. (2023, November). Users' self-reported changes in sexual knowledge as a result of time spent on erotic webcamming sites. Poster presented at the annual meeting of The Society for the Scientific Study of Sexuality in New Orleans, LA.
3. Bennett-Brown, M. & + Smith, C. R. (2023, August). Analyzing the impact of partnered pornography use on talk during sexual activity. Poster presented at the annual meeting of International Academy of Sex Research in Montreal, Canada.
4. Bennett-Brown, M., Gesselman, A.N., Kaufman, E.M., Ta, V., & Garcia, J.R. (2023, May). Emotional intelligence and avoidant attachment predict emoji use in interpersonal relationships. Paper presented at the annual meeting of the International Communication Association in Toronto, Canada.
5. Bennett-Brown, M., + Smith, C. R., Brammer, S.E., & + Downing, R. (2023, May). Sexual communication self-efficacy's influence on communication during sex for young adults in romantic relationships. Paper presented at the International Association for Romantic Relationships mini-conference at Arizona State University in Tempe, AZ.

Oral

1. Bennett-Brown, M.,+ Smith, C. R. , + Tinuoye, M.O., + Boye, M.K., & Gesselman, A.N. (2023, November). Talk during sex positively relates to sexual satisfaction among emerging adults with depressive symptoms. Paper presented at the annual meeting of The Society for the Scientific Study of Sexuality in New Orleans, LA.
2. Clark, H., Adams, O.R., & Bennett-Brown, M. (2023, November). Escaping the painful sex pipeline: Heteronormativity, queer identity formations, and painful sex. Paper presented at the annual meeting of The Society for the Scientific Study of Sexuality in New Orleans, LA.
3. Kaufman, E.M., Marcotte, A.S., Bennett-Brown, M., Garcia, J.R., & Gesselman, A.N. (2023, November). Clients' perceptions of authentic intimate connection on erotic webcam modeling sites. Paper presented at the annual meeting of The Society for the Scientific Study of Sexuality in New Orleans, LA.
4. + Smith, C.R., Brammer, S.E., Cloudy, J. & Bennett-Brown, M. (2023, November). "Having sex is not a comfortable conversation": Analyzing responses from young adults regarding their negative experiences during sexual activity. Paper presented at the annual meeting of the National Communication Association in National Harbor, MD.
5. + Chakraborty, J. & Bennett-Brown, M. (2023, November). 'You can't catch chlamydia from the air': Netflix's Sex Education and viewership, representation, and sexual attitudes among young adults. Paper presented at the annual meeting of the National Communication Association in National Harbor, MD.

6. + Edmund, E. & Bennett-Brown, M. (2023, November). Evaluating social influence surrounding MPox: Using theory of planned behavior to predict vaccination likelihood in college students. Paper presented at the annual meeting of the National Communication Association in National Harbor, MD.
7. Kaufman, E.M., Bennett-Brown, M., Marcotte, A.S., Garcia, J.R., & Gesselman, A.N. (2023, August). "Make it more real": Navigating bounded authenticity on erotic webcam modeling platforms. Paper presented at the annual meeting of International Academy of Sex Research in Montreal, Canada.

Binks, Martin

Publication

Peer-referred article

1. Chirico Scheele S, Binks M, Christopher G, Maleky F, Egan PF. Printability, texture, and sensory trade-offs for 3D printed potato with added proteins and lipids. *Journal of Food Engineering*, Volume 351, 2023, 111517, ISSN 0260-8774, <https://doi.org/10.1016/j.jfoodeng.2023.111517>. (<https://www.sciencedirect.com/science/article/pii/S0260877423001152>)

Book chapter

1. Binks M. The Role of the Food Industry in Obesity. In: Bray GA, Bouchard C, eds, *Handbook of Obesity*, V. 1, 5th edn. CRC Press; 2023: Ch 43 (in press).
2. Chirico-Scheele, S., M. Binks, and P. Egan. Three-Dimensional Printing in Food Manufacturing and Mechanics. In: Wing-Fu Lai, ed, *Materials Science and Engineering in Food Product Development*. Wiley Publishing, August 2023: Ch 15.

Presentation

SELECT INVITED SPEAKING / EVENTS (NON-CONSULTING)

1. TTU-Health Sciences Center Rural and Community Engagement Division, TTUHSC – Permian Basin and Office of Continuing Medical Education: Motivational Health Coaching. Online 01/11/2023.

SELECT MEDIA

1. December 27, 2023. KAMC/KLBK TV Lubbock, Wisdom Wednesday with Dr. Binks: Getting back to normal after the Holidays. Time to start picturing it and doing some advance planning. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-helps-us-get-back-to-normal-after-the-holidays/>
2. December 18, 2023. KAMC/KLBK TV Lubbock, Motivational Monday with Dr. Binks: Positive Communication, making sure your needs are known while hearing the needs of others. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-reminds-us-to-find-ways-to-have-positive-communication/>
3. December 13, 2023. KAMC/KLBK TV Lubbock, Wisdom Wednesday with Dr. Binks: Embracing your inner Grinch. Self-acceptance at the Holidays. Nobody and nothing is perfect. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-said-we-should-embrace-our-inner-grinch/>
4. November 29, 2023. KAMC/KLBK TV Lubbock, Wisdom Wednesday with Dr. Binks: Student Spotlight Marleigh Hefner RD. (Ph.D. Candidate). <https://www.everythinglubbock.com/video/marleigh-hefner-a-registered-dietitian-joined-us-from-the-nmhi/9213314/>
5. <https://www.everythinglubbock.com/video/marleigh-hefner-a-registered-dietitian-joined-us-from-the-nmhi/9213314/>
6. November 20, 2024. KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks shares more on managing holiday stress. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-shares-more-on-managing-holiday-stress/>
7. November 13, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks shares more on the clinical studies at NMHI. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-shares-more-on-the-clinical-studies/>

8. October 30, 2023. KAMC/KLBK TV Lubbock, Motivational Monday with Dr. Binks: How to improve sleep. <https://www.everythinglubbock.com/video/how-to-improve-our-sleep-with-dr-binks/9128539/>
9. October 25, 2023. KAMC/KLBK TV Lubbock, Wisdom Wednesday with Dr. Binks: How important is sleep. <https://www.everythinglubbock.com/news/trends-and-friends/how-important-is-sleep/>
10. October 16, 2023. KAMC/KLBK TV Lubbock, Motivational Monday with Dr. Binks: Pumpkin spice is in the air and Dr. Binks has a thought or two. <https://www.everythinglubbock.com/video/pumpkin-spice-is-in-the-air-and-dr-binks-has-a-thought-or-two/9088122/>
11. September 25, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks at the South Plains Fair. <https://www.everythinglubbock.com/news/trends-and-friends/we-ran-in-to-dr-binks-at-the-south-plains-fair/>.
12. September 18, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Get started with your weight plan with Dr. Binks. <https://www.everythinglubbock.com/news/trends-and-friends/get-started-with-your-weight-plan-with-dr-binks/>
13. August 28, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Examining your motives: Part 2. <https://www.everythinglubbock.com/news/trends-and-friends/examining-your-motives-part-2-with-dr-binks/>
14. August 21, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Examining your motives. <https://www.everythinglubbock.com/news/trends-and-friends/examining-your-motives-with-dr-binks/> .
15. August 14, 2023.
16. August 9, 2023. KAMC/KLBK TV Lubbock, Wisdom Wednesday: Setting up our “littles” for back to school success. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-shares-ways-we-can-set-our-littles-up-for-back-to-school-success/>.
17. July 31, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks talks self-confidence for the little ones. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-talks-self-confidence-for-the-little-ones/>
18. July 24, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Princeton University NMHI Undergraduate Intern Tiffany Tsai shares her experience engaging in her 8-week summer internship with Dr. Binks at NMHI. https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-is-joined-by-a-student-intern-that-shares-more-on-her-experience-at-the-clinic/?utm_source=facebook.com&utm_campaign=socialflow&utm_medium=referral&fbclid=IwAR0v-rMs2HGYzhnAsol4CCruHPphSpKC7CWUlwjM4ebA6DK3187uRukjUrw
19. July 17, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Do you need to ditch old habits? <https://www.everythinglubbock.com/news/trends-and-friends/do-you-need-to-ditch-old-habits/>
20. July 10, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks has news for our school aged children. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-has-news-for-our-school-aged-children/>
21. July 3, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks reminds us to enjoy Summer festivities. <https://www.everythinglubbock.com/video/dr-binks-reminds-us-to-enjoy-summer-festivities/8799650/>
22. June 12, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: We all have emotions, but what do they mean? <https://www.everythinglubbock.com/news/trends-and-friends/we-all-have-emotions-but-what-do-they-mean/>
23. May 29, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: A self-esteem check with Dr. Binks. <https://www.everythinglubbock.com/news/trends-and-friends/a-self-esteem-check-with-dr-binks/>
24. May 15, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Does your confidence speak for its self? <https://www.everythinglubbock.com/news/trends-and-friends/does-your-confidence-speak-for-its-self/>
25. May 8, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: NMHI High School Experience. <https://www.everythinglubbock.com/video/nmhi-high-school-experience-with-the-nutrition-metabolic-health-initiative/8629262/>
26. May 4 2023. Dr. Binks speaks about the impact of the Ozempic shortage nationwide and the value of GLP-1 medications for obesity and diabetes management on KLBK/KAMC News. <https://www.everythinglubbock.com/news/this-medication-saves-lives-lubbock-health-experts-give-their-take-on-ozempic-shortage/>

27. May 01, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: How's the speed of your motivational motor? <https://www.everythinglubbock.com/news/trends-and-friends/how-the-speed-of-your-motivational-motor/>
28. April 17, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr Binks shares more on the clinical studies. Link not available.
29. April 10, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Step away and enjoy the outdoors. <https://www.everythinglubbock.com/news/trends-and-friends/step-away-and-enjoy-the-outdoors/>
30. April 3, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Ways to make your work environment enjoyable; Dr. Binks gives us advice. <https://www.everythinglubbock.com/video/ways-to-make-your-work-environment-enjoyable-dr-binks-gives-us-advice/8529771/>
31. March 28, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Dr Binks talks about how to WIN!! <https://www.everythinglubbock.com/video/motivational-monday-dr-binks-talks-about-how-to-win/7559119/>
32. March 20, 2023. KAMC/KLBK TV Lubbock, Motivational Monday: Are you stuck in a rut? <https://www.everythinglubbock.com/news/trends-and-friends/are-you-stuck-in-a-rut/>
33. March 13, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Hannah Yoo, a graduate student at the Nutrition & Metabolic Health Initiative at Texas Tech University, shares her experience. <https://www.everythinglubbock.com/video/hannah-yoo-a-graduate-student-at-the-nutrition-metabolic-health-initiative-at-texas-tech-university-shares-her-experience/8468688/>
34. March 8, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Are you mentally and physically ready for Spring? <https://www.everythinglubbock.com/news/trends-and-friends/are-you-mentally-and-physically-ready-for-spring/>
35. February 27, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Have you wondered why it is so hard to lose weight? <https://www.everythinglubbock.com/news/trends-and-friends/have-you-wondered-why-it-is-so-hard-to-lose-weight/>
36. February 21, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks gives more information on the research being done at the NMHI <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-gives-more-information-on-the-research-being-done-at-the-nmhi/>
37. February 13, 2023 KAMC/KLBK TV Lubbock, Motivational Monday with Dr. Binks. Dr. Binks tells us how NMHI helps patients stay healthy. <https://www.everythinglubbock.com/news/motivational-monday-with-dr-binks/>
38. February 6, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks gives us an overview of the NMHI <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-gives-us-an-overview-of-the-nmhi/>
39. Jan. 30, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks says love is the air as February 14 approaches. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-says-love-is-the-air-as-february-14-approaches/>
40. Jan. 23, 2023 KAMC/KLBK TV Lubbock, Motivational Monday: Dr. Binks says motivational health coaching is more than you think. <https://www.everythinglubbock.com/news/trends-and-friends/dr-binks-says-motivational-health-coaching-is-more-than-you-think/>

Grant:

1. Source 2022 American River Nutrition, LLC, Hadley, MA. Title: Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy. Award Amount: \$266,294. Status: Active; Role: Co-I
2. Source 2022 American River Nutrition, LLC, Hadley, MA. Title: Action of dietary tocotrienols on obesity. Award Amount: \$70000. Status: Active Role: Co-I
3. Source 2022 Private Donor. Title: Nutritional approaches to prostate cancer. Award Amount: \$10,000 Status: Active

Blanton, Michael

Publications (articles, reviews, book chapters,...)

1. Toni Denison, Kristyn Sorensen, Michael Blanton, Lara Johnson, Theresa Byrd, Steven Pass, Lacy Phillips, Joyce Miller, Lance McMahon, Barbara Cherry. (2024 In Press) Quality

Improvement Review Board: An Innovative Approach to Oversight of Projects that don't meet Institutional Review Board criteria of Human Subjects Research. *Quality Management in Healthcare*

- Christine Prater, Thomas E. Tenner, Michael P. Blanton, and David Trotter (2024 In Press). Transitioning from faculty-written examinations to National Board of Examiners custom examinations in medical education. *Medical Science Educator*

Presentation

- 20222 The Department of Pharmacology and Neuroscience Retreat, Texas Tech University HSC. (Marfa, TX) "The Office of Graduate Student Development and Postdoctoral Affairs- A partnership between the TTUHSC Office of Research and the Graduate School of Biomedical Sciences".

Award

- TTUHSC School of Medicine Teaching Academy Inductee (2023)

Brismee, Jean-michel

Publication

- Brismée JM. The Journal of Manual and Manipulative Therapy has now a Clarivate Impact Factor and is ranked Q2 in Physical Therapy, Sports Therapy, and Rehabilitation Journals. *Journal of Manual and Manipulative Therapy*. 2023;31(6):391-392.
- Riley SP, Swanson BT, Shaffer SM, Flowers DW, Cook CE, Brismée JM. Why do 'Trustworthy' Living Systematic Reviews Matter? *Journal of Manual and Manipulative Therapy*. 2023 Aug;31(4):215-219.
- Normand M, Ibrahim M, Morsy M, Brismée JM, Sobczak S. The Trapeziometacarpal Screw Home Torque Mechanism as a Clinical Indicator of the Posterior Joint Ligament Complex Integrity: A Cadaveric Investigation. *Journal of Hand Therapy*. 2023 Oct 2:S0894-1130(23)00120-5.
- Johnson ME, Karges-Brown JR, Brismée JM, Brenza TM, Piper AK. Innovative Seated Vertical Lumbar Traction Allows Simultaneous Computer Work While Inducing Spinal Height Changes Similar To Supine Lying. *Journal of Back and Musculoskeletal Rehabilitation*. 2023;36(3):739-749.
- Campbell DF, Brismée JM, Allen B, Hooper TL, Domenech TA, Manella KJ. Self-Efficacy with Telehealth Examination: the Doctor of Physical Therapy Student Perspective. *Philippine Journal of Physical Therapy*. 2023;2(2):12-19.
- Onyeso O, Mabry L, Froment F, Brismée JM, Awosoga O, Ezema C, Adje M, Stewart A. Knowledge, Attitude, And Adherence to Standard Precautions Among Frontline Clinical Physiotherapists During the COVID-19 Pandemic: A Cross-Sectional Survey. *European Journal of Physiotherapy*. 2023;25(3):138-146.
- Campbell DF, Brismée JM, Allen B, Hooper TL, Domenech MA, Manella KJ. Comparison of Flex vs. Residential Educational Program Outcomes: Physical Therapy Students' Self-Efficacy, Confidence, and Clinical Competence. *Journal of Clinical Education in Physical Therapy*. 2023; 5 <https://doi.org/10.52214/jcept.v5.9933>.
- Campbell DF, Brismée J, Allen B, Hooper TL, Domenech MA, Manella KJ. Ethnicity Does Not Impact Physical Therapy Students' Clinical Readiness and Performance, a United States Exploratory Study. *The Internet Journal of Allied Health Sciences and Practice*. 2023;21(1), Article 9. <https://nsuworks.nova.edu/ijahsp/vol21/iss1/9/>

Presentation

Oral

- 1er Congrès International Tunisien en Thérapie Manuelle/ Brismée JM*, Samson JY, Anderson DN, Hooper TL, Sizer PS, Hando BR. "Injections musculosquelettiques de corticostéroïdes administrées par des physiothérapeutes militaires américains sans complication majeure avec réduction d'utilisation des soins de santé". Hammamet, Tunisia, 11/25/2023
- 1er Congrès International Tunisien en Thérapie Manuelle. Crawford MT, Brismée JM, St-Pierre MO, Bellot N, Sizer PS, Sobczak S. "Forte variabilité des pressions intradiscales cervicales en fin d'amplitude de postures dans le plan sagittal: Une étude cadavérique". Hammamet, Tunisia, 11/25/2023

3. Annual AAOMPT Conference 2023. Kapila J, Hooper TL, James CR, Brismée JM, Sizer PS, Sobczak S, Likeness A. *“Immediate cervical extensor fatigue effects on deep and superficial extensor activity and joint position sense error in individuals with and without neck pain history”*. St Louis, Missouri, 10/28/2023
4. Annual AAOMPT Conference 2023. Samson JY, Anderson DN, Hooper TL, Sizer PS, Hando BR, Brismée JM. *“United States Military Physical Therapists Provide Safe Musculoskeletal Corticosteroid Injections Associated with Low Healthcare Utilization”*. St Louis, Missouri, 10/28/2023
5. Annual AAOMPT Conference 2023. Hoops J, Nichols CW, Atkins LT, Runquist P, James CM, Sobczak S, Brismée JM. *“Simulated Oscillatory Joint Mobilization Using 20 And 40 Newton Forces Increases Coracohumeral Length: A Cadaveric Investigation”*. St Louis, Missouri, 10/28/2023
6. South Central American Society of Biomechanics Conference. Kapila J, James CR, Sizer, PS, Brismée JM, Sobczak S, Likeness A, Hooper TL. *“Immediate neck extensor fatigue effects on cervical extensor activity in individuals with and without neck pain history”*. Fort Worth, Texas, 04/01/2023
7. 9^{ème} Journées Francophones de Kinésithérapie 2023. Bellot N, Ridehalgh C, Saint-Pierre MO, Crawford M, Effatparvar MR, Lavoie FA, Brismée JM, Sobczak S. *“Evaluation de la tension du nerf suprascapulaire au niveau des encoches suprascapulaires et spinoglénoïdes au cours de 5 positions neurodynamiques: une étude cadavérique observationnelle”*. Rennes, France, 03/31/2023
8. 9^{ème} Journées Francophones de Kinésithérapie 2023. Hage R, Buisseret F, Brismée JM, Hage G, Detrembleur C, Dierick F. *“Valeur diagnostique additionnelle des paramètres cinématiques du test laser DidRen par rapport aux mesures cliniques rapportées par les patients dans le dépistage de la cervicalgie non spécifique aiguë-subaiguë.”* Rennes, France, 03/31/2023

Poster

1. Annual AAOMPT Conference 2023. Lodhi MJ, Brismée JM, Waltz RA, Shapiro R. *“Complication Rates Among Navy Midshipmen Following ACL Reconstruction: Is It Time For Standardized Physical Performance Testing Prior To Return To Duty?”* St Louis, Missouri, 10/27/2023
2. Educational Leadership Conference (2023). Ashby J, Brismée JM, Allen B. *“Learning Disabilities among Physical Therapists and Physical Therapist Assistants: More prevalent than we think?”* Philadelphia, Pennsylvania, 10/13/2023
3. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2023) Kapila J, James CR, Brismée JM, Sizer PS, Sobczak S, Likness A, Hooper TL. *“Immediate neck extensor fatigue effects on cervical extensor activity in individuals with and without neck pain history.”* Lubbock, Texas, 04/24/2023.
4. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2023) Crawford MT, Brismée JM, St-Pierre MO, Bellot N, Sizer PS, Sobczak S. *“Cervical Intradiscal Pressures Respond Consistently to End-Range Flexion and Traction, Not Protraction, Retraction or Extension: A Cadaveric Investigation”* Lubbock, Texas, 04/26/2023
5. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2023) *First Place* Lodhi M, Shapiro R, Waltz R, Brismée JM. *“Delayed Return to Full Duty after Cyclops Lesions Among United States Military Trainees Following Anterior Cruciate Ligament Reconstruction: A Retrospective Study”* Lubbock, Texas, 04/26/2023
6. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center (2023) Johnson AS, Hando BR, Hooper TL, Hintz CN, Brismée JM. *“Frequency of Occurrence and Predictor Variables for Lower Quarter Bone Stress Injuries in United States Air Force Special Warfare Trainees”* Lubbock, Texas, 04/26/2023
7. Combined Section Meeting of the American Physical Therapy Association (2023) Campbell DF, Brismée JM, Allen B, Hooper TL, Domenech TA, Manella KJ. *Self-efficacy with telehealth examination: the Doctor of Physical Therapy Student perspective* San Diego, California. 02/24/2023
8. Combined Section Meeting of the American Physical Therapy Association (2023) Herrera CP*, Brismée JM, Hooper TL, Sizer PS. *“Overuse Injuries in Endurance Sports with Emphasis on Triathlon: A Diagnostic Specific and Functional Approach.”* San Diego, California, 02/23/2023
9. Combined Section Meeting of the American Physical Therapy Association (2023). Crawford M*, Brismée JM, St-Pierre MO, Bellot N, Sizer PS, Sobczak S. *“Supine End-Range Cervical Flexion Consistently Increases Cervical Intradiscal Pressures while Protraction-Retracton Doesn’t: A Cadaveric Investigation.”* San Diego, California, 02/23/2023

10. Combined Section Meeting of the American Physical Therapy Association (2023). Pugliese M*, Allen B, Tammany J, Riley S, Brismée JM. "Burnout in Physical Therapy: Prevalence and Association with Education, Mentorship and Self-Efficacy." San Diego, California, 02/23/2023
11. Combined Section Meeting of the American Physical Therapy Association (2023). Thompson J*, Page P, Hooper TL, Sobczak S, Rosendahl-Garcia K, Anderson D, Brismée JM. "Musculoskeletal Ultrasound Reliability and Validity of Cervical Intervertebral Disc Height Measurements in Young Healthy Subjects." San Diego, California, 02/23/2023

Grant

1. Investigators: Yasrebi, **Brismée**, Sizer, Crawford, Sobczak
 Agency: CH Foundation Pain Science Scholar Development Award
 Amount: **\$5,000**
 Awarded: January, 2023
 Title: Cervical Intradiscal Pressure During Sitting End-Range Neck Postures: A Cadaveric Investigation
 Submitted: November, 2022
 Period: 01/10/2023 – 12/15/2025

Chyu, Ming-Chien

Publication

1. Shen CL, Newman JW, Elmassy MM, Borkowski K, Chyu MC, Kahathuduwa C, Neugebauer V, Watkins BA. Tai Chi exercise reduces circulating levels of inflammatory oxylipins in postmenopausal women with knee osteoarthritis: results from a pilot study. *Front Med (Lausanne)*. 2023 Aug 16;10:1210170. doi: 10.3389/fmed.2023.1210170. PMID: 37654656; PMCID: PMC10466388.

Coman, Ioana

Publication

Peer-reviewed article

1. Coman, I. A., Bazaa, U., Guidry, J. & Miller, C. (2023). #EndtheSTigma: An exploratory analysis of the 2019 HPV Awareness Day conversation on Twitter & Instagram. *Health Communication*. <https://doi.org/10.1080/10410236.2023.2196466>
2. Coman, I.A., Xu, S., & Yamamoto, M. (2023). COVID-19 Vaccine Hesitancy: Disadvantaged Groups' Experience with Perceived Barriers, Cues to Action, and Attitudes. *American Journal of Health Promotion*, 37(4), 488-498. <https://doi.org/10.1177/08901171221136113>
3. Xu, S., Coman, I.A., Yamamoto, M., & Najera, C.J. (2023). Exposure effects or confirmation bias? Examining reciprocal dynamics of misinformation, misperceptions, and attitudes toward COVID-19 vaccines. *Health Communication* 38(10), 2210-2220. <https://doi.org/10.1080/10410236.2022.2059802>
4. Tsai-Yi, J., Yuan, S., & Coman, I.A. (2023). Theorizing Issue-Driven Public Attention and Expectations in Audience Responses to Corporate Sociopolitical Activism: A Mixed-Method Analysis. *Public Relations Review*, 49(4), 102353. <https://doi.org/10.1016/j.pubrev.2023.102353>
5. Gearhart, S., Coman, I. A., Moe, A., & Brammer, S. (2023). Public thoughts on incentivizing Covid-19 vaccine uptake: Testing hostile media bias with user-generated Facebook news comments. *Frontiers in Sociology, Section Media Governance and the Public Sphere*. 8: 1041454. [Open Access]. 10.3389/fsoc.2023.1041454
6. Ittefaq, M., Abwao, M., Coman, I. A., & Ejaz, W. (2023). A systematic literature review of research from 2010 to 2020 addressing user-generated online comments related to health issues and recommendations for future research. *International Journal of Communication*. 17, 256-280. <https://doi.org/1932-8036/20230005>

Book chapter

1. Coman, I.A. & Vasquez, R. (2023). Chapter 9: Organizational social listening and Climate Corporate Advocacy: Amazon and Amazon Employees for Climate Justice. In K. Place (Ed.) *Organizational listening for strategic communication: Building theory & practice for strategic communication*. Routledge. Pp. 157-178. [Work part of the 2020 Page Center Grant].

- Simpson, C., Coldren, C., Coman, I. A., Cooper-Norris, C., & Perry, G. (2023). Urban Vegetation: Anthropogenic Influences, Public Perceptions, and Wildlife Implications. In A. Kuden & B. Imrak (Eds.) *Urban Horticulture – Sustainable gardening in cities*. IntechOpen. [Open Access]. 10.5772/intechopen.1001155
2. Coman, I. A. (2024). Teaching crisis communication. In S. Keith (Ed.), *Teaching journalism and media*, Volume III in the Teaching Communication series, M. Strawser & D. Sellnow (Series Eds.). Cognella.
 3. Coman, I. A., Lilleker, D., Gregor, M., & Novelli, E. (Eds.). (upcoming 2024). *Governmental risk communication and COVID-19*. Routledge. International oriented. Contribution: lead-editor, led the theoretical framework and chapter, design, conceptual, chapter write-up, other editor contributions and activities (e.g. working with contributors, editing).

Encyclopedia Entries – upcoming

1. Coman, I. A. Rumors. (expected date of publication 2024). In A. Nai (Ed.) *Encyclopedia of political communication*. Edward Elgar publishers.
2. Gearhart, S., & Coman, I. A. (expected date of publication 2024). Social Media. In A. Nai (Ed.) *Encyclopedia of political communication*. Edward Elgar publishers.

Conference presentations, moderator/discussant, workshops, invited talks etc.

Oral

1. Coman, I. A., Partida-Dominguez, G., & Sreepada, N. (August 2023). *Covering Environmental Risk Communication: From “Doom” News to Solutions Journalism. An Exploration of Mainstream versus Hispanic and Black Media*. AEJMC, Washington DC.
2. Tsai, JY., Yuan, S., & Coman, I. A. (May 2023). *Developing an issue-driven framework of corporate sociopolitical activism: The role of solution responsibility and consumer expectations*. ICA, Toronto, Canada.
3. Zhao, Y., Gearhart, S., & Coman, I. A. (March 2023). *Does cultural background influence acceptance of corporate social advocacy campaigns? Testing message effectiveness between independent (individualistic) and interdependent (collectivistic) audiences*. International Public Relations Research Conference (IPRRC). Orlando, FL.
4. Coman, I. A., Xu, S., Weedon, E., & Yamamoto, M. (February 2023). *COVID-19 vaccine barriers and helpers among underrepresented and underserved groups: Insights from a longitudinal study*. AEJMC, Midwinter, Norman, OK.
5. Coman, I. A., Chair (August 2023). Panel: *Demystifying and diversifying the grant process for young scholars and graduate students: Integrated approaches and best practices*. Panel. at Communicating Science, Health, Environment and Risk Division (COMSHER) AEJMC. Washington, D.C. (peer reviewed)
6. Coman, I. A., Dominguez-Partida, G., Sreepada, N., & Hopkins, N. (August 2023). *From greenwashing to saving the planet: An exploration of how mainstream, Hispanic and Black media and their audiences portray and judge organizations’ environmental sustainability risk communication*. [invited presenter on grant research insights]. Page Center Research Roundtable. Pre-AEJMC. Washington DC.
7. Coman, I. A. (January 18, 2023). *Barriers in risk & crisis health communication and potential solutions: Moving toward empowering communities*. Invited guest speaker. Webster University School of Communications. [invited talk]

Culberson, John Publication

Peer-referred article

1. Sehar U, Rawat P, Choudhury M, Boles A, Culberson J, Khan H, Malhotra K, Basu T, Reddy H. Comprehensive Understanding of Hispanic Caregivers: Focus on Innovative Methods and Validations. *J Alzheimers Dis Rep*. 2023 Jun 6;7(1):557-574, PMID 10259076.

2. Culberson JW, Kopel J, Sehar U, Reddy H. Urgent needs of caregiving in ageing populations with Alzheimer's disease and other chronic conditions. *Ageing Res Rev*, 2023 Sep;90:102001. doi: 10.1016/j.arr.2023.102001. Epub 2023 Jul PMID 37414157
3. Basa T, Sehar U, Malhotra K, Culberson J, Khan H, Morton H, Orlov E, Brownwell M, Reddy H. Healthy brain aging and delayed dementia in Texas rural elderly, *Ageing Res Rev*, 2023 Nov;91:102047.PMID:37652312
4. Ashcraft A, Owen D, Culberson J. Feasibility of the NudgeLTC Clinical Decision Support Application. *Innov Aging*. 2023 Dec; 7(Suppl 1):706, doi:10.1093/geroni/igad104.2290 PMID 10738786

Presentation

1. Ashcraft A, Owen D, Culberson J. (2023) Poster, Feasibility of the Nudge LTC Clinical Decision Support Application. Gerontological Society of America Annual Scientific Conference, Tampa
2. Eshak N, Culberson J. (2023) Poster, Effectiveness of anti-resorptive drugs in post-menopausal women with osteoporosis and advanced chronic kidney disease. American Geriatrics Society Annual Scientific Session, Long Beach, CA

Dennis, Jeff

Publication

1. Gittner, L. S., Dennis, J. A. (2023). A Standardized Matrix for Mental Health Diversion Program Reporting. *Journal of Contemporary Criminal Justice*, 39, 613-642.
2. Gittner, L. S., Dennis, J. A., Forbis, R. (2023). Diversion: A Systems Theory Perspective. *Journal of Contemporary Criminal Justice*, 39, 471-490.

Presentation

Oral

1. Dennis, Jeff A. "Social Determinants of Health: From National to Local." – P3-1B week lecture to first year medical students, TTUHSC Lubbock, Oct. 18, 2023.
2. Dennis, Jeff A. "Population Health and Social Determinants." TTUHSC Graduate Medical Education New Resident Orientation. June 22, 2022; June 29, 2023.
3. Dennis, Jeff A. "The Social Epidemiology of Mental Health." West Texas Regional Mental Health Conference. Lubbock, TX. May 31, 2023.
4. Dennis, Jeff A. "Social and Behavioral Disparities in Cardiovascular Health." Organ Systems-1, TTUHSC School of Medicine, Lubbock, February 16, 2022; February 20, 2023.
5. Dennis, Jeff A. "Preventive Medicine and Public Health." TTUHSC School of Medicine, Preventive Medicine Elective. Jan 19, 2023.

Grant (Awarded/Submitted)

1. Health equity grant for Parmer, Deaf Smith, and Gray counties in Texas. Texas Department of State Health Services. Grant #HHS00111770001. PI: Theresa Byrd; Co-investigators: Jeff Dennis, Julie St. John. \$245,000 (Dec. 17, 2021 – May 31, 2024). New PI, effective March 2023: Jeff Dennis.

Dufour, Jannette

Publication

1. *Shen CL, Dufour JM, Miranda JM, Kaur G, Chung E, Ramalingam L, Moustaid-Moussa N, Cao JJ. 2023 Effect of dietary geranylgeraniol and green tea polyphenols on glucose homeostasis, bone turnover biomarkers and bone microstructure in obese mice. *International Journal of Molecular Sciences* Jan 4;24(2):979. doi: 10.3390/ijms24020979.
2. Washburn RL, Martinez-Marin D, Korac K, Sniegowski T, Hibler T, Rodriguez AR, Chilton BS, Pruitt K, Dufour JM. 2023 The Sertoli cell complement signature: A suspected mechanism in xenograft survival. *International Journal of Molecular Sciences* 24:1890. doi: 10.3390/ijms24031890.
3. Washburn RL, Dufour JM. 2023 Complementing testicular immune regulation: The relationship between Sertoli cell, complement, and the immune response. *International Journal of Molecular Sciences* 24:3371. doi: 10.3390/ijms24043371.

4. *Kaur G, Helmer BA, Martinez-Marin D, Sennoune SR, Washburn RL, Martinez-Zaguilan R, Dufour JM, Chilton BS. 2023 Helicase-like transcription factor (Hltf)-deletion activates Hmgb1-Rage axis and granzyme A-mediated killing of pancreatic b cells resulting in neonatal lethality. PLOS ONE Aug 25;18(8):e0286109. doi: 10.1371/journal.pone.0286109.
5. Washburn RL, Martinez-Marin D, Sniegowski T, Korac K, Hibler T, Rodriguez AR, Miranda JM, Chilton BS, Bright RK, Pruitt K, Bhutia YD, Dufour JM. 2023 Sertoli cells express accommodation, survival and immunoregulatory factors when exposed to human serum. *Biomedicines* 11, 1650; doi.org/10.3390/biomedicines11061650 *Cover Photo*
6. Washburn RL, Dufour JM. 2023 Regulation of complement by Sertoli cells may contribute to the immune protective environment within the blood-testis barrier. *Tissue Barriers* Jul 13:2233385. doi: 10.1080/21688370.2023.2233385.
7. Washburn RL, Dufour JM. 2023 Gene expression profiles of neonatal porcine Sertoli cells at baseline and after incubation in normal human serum as determined by RNA sequencing. *Tissue Barriers* Jul 30:2242060. doi: 10.1080/21688370.2023.2242060.
8. *Martinez-Marin D, Helmer BA, Kaur G, Washburn RL, Martinez-Zaguilan R, Sennoune SR, Dufour JM, Chilton BS. 2023 Helicase-like transcription factor (HLTF)-deleted CDX/TME model of colorectal cancer increased transcription of oxidative phosphorylation genes and diverted glycolysis to boost S-glutathionylation in lymphatic intravascular metastatic niches. PLoS One Sep 8;18(9):e0291023. doi: 10.1371/journal.pone.0291023.

Presentation

Oral

1. *Kaur G, Bishop KN, Webster D, Dufour J, Schneider B. How a medical education master's program promotes student resiliency and success in medical school. *Anatomy Connected* 2023. (Washington DC, March 25-27, 2023) (Oral talk)
2. Immunoprotective Sertoli Cells in Transplantation. Women in Andrology Lecture, American Society for Andrology. (Boston, MA, April 19-23, 2023).
3. Sertoli cell Transplantation: An Innovative Way to Study Testis Immune Regulation. At the Interface of Tolerance and Defense". 3rd Virtual Mini Symposium on Male

Poster

1. *Chilton BS, Kaur G, Helmer RA, Martinez-Marin D, Sennoune SR, Washburn RL, Martinez-Zaguilan R, Dufour JM. Helicase-like transcription factor (Hltf) protein isoforms: a matter of life and death. 5th International Caparica Conference in Splicing (Caparica, Portugal, July 17-20, 2023).
2. *Shen CL, Lovett J, Jones B, Dufour J, Dunn D, Berk S. Establishing a Distinction in Medical Research Program at Texas Tech University Health Sciences Center: Four-Year Structured Medical Research Curriculum for Medical Students. 2023 SGEA (Southern Group of Educational Affairs) Annual Conference (Nashville, TN, March 22-25, 2023).
3. *Berk S, Rudder J, Lovett J, Stroever S, Jones B, Dufour J, Dunn D, Shen CL. The Medical Student Summer Research Program (MSSRP at Texas Tech University Health Sciences Center: Identifying Barriers and Providing Solutions to Build Research Foundations. 2023 SGEA (Southern Group of Educational Affairs) Annual Conference (Nashville, TN, March 22-25, 2023).
4. Bennett AI, Washburn RL, Dufour JM, Mechref Y. LC-MS/MS Characterization of Glycans in Pig Sertoli Cells to Understand Complement System Behavior. American Society for Mass Spectroscopy. (Houston TX, June 4-8, 2023)
5. Hibler T, Dufour JM. Going with the flow: developing a multicolor flow cytometry panel for detection of immune cells in a reproductive setting. Basic Science Workshop, American Society for Andrology. (Boston, MA, April 19-23, 2023).
6. *Bernstein E, Chilton B, Dufour J, Kaur G. Connecting the Layers: Enhancing Medical Students Knowledge of Male and Female Perineum Anatomy. 40th Annual Meeting of the *American Association of Clinical Anatomists* (Orlando FL July 9-12, 2023). (Poster Award)

Grant

1. CH Foundation Seed Grant, "The role of TGF-Beta and retinoic acid in Sertoli cell induction of Tregs." (\$72,400, 1/2022-12/2022). Dufour (Principal Investigator), Kaur (Co- Investigator)
2. Research and Extension Experiences for Undergraduates, Agriculture and Food Research Initiative, (NIFA, USDA), "Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program." (\$500,000, 5/2021 to 4/2026). Dufour (Collaborating Mentor), Moustaid-Moussa (Director)
3. Welch Endowed Chair, Promotion of basic and clinical research (\$120,000/year, 3/1/2023-no end date). Dufour (Principal Investigator)

Enakpene, Christopher A

Publication

1. Enakpene CA, Canci ME, Ventolini G. Obstetric vascular Doppler velocimetry: clinical applications and overuses. *Minerva Obstet Gynecol.* 2023 Oct;75(5):482-490. doi: 10.23736/S2724-606X.23.05164-3. Epub 2023 May 4. PMID: 37140586.

Figueroa, Arturo

Publication

1. Figueroa A, Maharaj A, Kang Y, Dillon KN, Martinez MA, Morita M, Nogimura D, Fischer SM. Combined Citrulline and Glutathione Supplementation Improves Endothelial Function and Blood Pressure Reactivity in Postmenopausal Women. *Nutrients* 2023, 15(7), 1557.
2. Figueroa A, Wong A. Editorial for the Special Issue "Benefits of Supplementation with L-arginine, Citrulline and Watermelon on Vascular and Metabolic Health". *Nutrients* 2023, 15 (6):1491.
3. Dellinger JR, Figueroa A, Gonzales JU. Reactive hyperemia half-time response is associated with skeletal muscle oxygen saturation changes during cycling exercise. *Microvascular Res* 2023; 149:104569.

Presentation

Oral

1. Figueroa, A. Citrulline supplementation to improve cardiometabolic health in aging. XXIII International Reunion of Medical Sciences. Leon, Guanajuato Mexico. September 2023.
2. Kang Y, Dillon KN, Martinez MA, Maharaj A, Figueroa A. L-citrulline with low-intensity resistance training improves endothelial function and lean mass in postmenopausal women. American College of Sports Medicine Annual Meeting and World Congresses, Denver, CO. May 2023.
3. Dillon KN, Kang Y, Maharaj A, Martinez MA, Figueroa A. L-citrulline attenuates aortic pressure and pressure waves amplitude during metaboreflex activation in postmenopausal women. American College of Sports Medicine Annual Meeting and World Congresses Denver, CO. May 2023.
4. Figueroa A, Maharaj A, Fischer SM, Dillon KN, Martinez MA, Kang Y. Impact of L-Citrulline supplementation and low-intensity resistance training on leg endothelial function, lean mass, and strength in postmenopausal women with hypertension. The International Conference on Frailty & Sarcopenia Research, Toulouse, France. March 2023.

Poster

1. Martinez MA, Dillon KN, Kang Y, Maharaj A, Figueroa A. Endothelial dysfunction influences exaggerated aortic hemodynamic responses to metaboreflex activation in postmenopausal women. 2023 American College of Sports Medicine Annual Meeting and World Congresses, Denver, CO. May 2023.

Galyean, Shannon

Publication

- Galyean S†, Syn D, Subih HS, Boylan M. Improving vitamin D status in bariatric surgery subjects with monthly high-dose ergocalciferol. *Int J Vitam Nutr Res.* 2022 Mar;92(2):109-117. doi: 10.1024/0300-9831/a000728. Epub 2021 Sep 15. PMID: 34521264.

Presentation

Oral

- Galyean, S. (September, 2022). What's Cooking? *Healthy Aging Lecture Series*. (Stand-Up Presentation)
- Galyean, S. (May, 2022). Digital Health Behavior Change Technology *US Foodservice Food and Nutrition Seminar*. (Stand-Up Presentation)

Grant

- National Cattlemen's Beef Association **Status:** Active. **Budget:** \$53,731. **Title:** The Effect of Culinary Medicine to Enhance Protein Intake on Muscle Quality in Older Adults. **Role on project** Principal Investigator (3%). **Dates of entire project:** 5/1/2023-5/1/2024. **Specific aims of project:** To test the hypothesis that culinary medicine and lean beef consumption could provide a more precise and effective nutritional intervention and education for older adults to prevent muscle mass, function, and strength loss.
- College of Human Sciences, TTU The role of synbiotics in age-related biomarkers and cognitive function in older adults, Oct 2023 – August 2024 (PIs: Shannon Galyean; Andrew C. Shin). \$18,195

Garner, Christine

Publication

1. Regalado D, Connolly M, Krutsch K, Kendall-Tackett K, Stark A, Garner CD. Psychiatric medication use among pregnant and breastfeeding mothers who used cannabis for mental health concerns: A cross-sectional survey study. *Women's Health*. 2023;19:17455057231199391.

Presentation

Oral

1. *Impact of Nutrients and Contaminants in Human Milk on Growth and Development*. Invited presentation at the National Academy of Sciences, Engineering, and Medicine (NASEM). April 6, 2023. Via Webinar.
2. *Role and Requirements of Carbohydrate in Pregnancy, Lactation, and Infancy*. Invited presentation at the National Academy of Sciences, Engineering, and Medicine (NASEM). March 7, 2023. Via Webinar.
3. Boerner Z, DeWare C, Natha C, Baker T, Garner CD. Beliefs and attitudes among mothers who used cannabis while breastfeeding. Academy of Breastfeeding Medicine Annual Conference. Invited for podium presentation. November 2023. Schaumburg, IL. (*Award for Outstanding Podium Presentation*)
4. *VIBRANT MOMS Collaborative NIH-Funded Research Project*. TTU School of Veterinary Medicine One Health Faculty Research Club. Nov 30, 2023. Amarillo, TX.
5. *Improving nutrition among mothers and infants experiencing health disparities*. Invited presentation at the Obesity Research Institute Symposium. May 3, 2023. Lubbock, TX.
6. Boerner Z, DeWare C, Natha C, Baker T, Garner CD. Beliefs and attitudes among mothers who used cannabis while breastfeeding. Annual Research Day for Students, Residents, and Faculty. TTUHSC School of Medicine. April 2023. Amarillo, TX.
7. High C, Baxter K, Maguire E, Krizanova B, Ortega R, Baker T, Garner C, McLaurin-Jiang S. MamaMeals: examining the feasibility & accessibility of a perinatal food insecurity intervention. TTUHSC School of Medicine. April 2023. Amarillo, TX.
8. Rook A, Young M, Garner CD, Krutsch K. Investigating perceived causes of colored breast milk. Annual Research Day for Students, Residents, and Faculty. TTUHSC School of Medicine. April 2023. Amarillo, TX.
9. Richardson B, Schuck A, Krutsch K, Garner C. Mother's reactions to changes in their breast milk color: results from an online survey. Research Day for Students, Residents, and Faculty TTUHSC School of Medicine. April 2023. Amarillo, TX.

Poster

1. Krutsch K, Rook A, Young M, Garner CD. Investigating perceived causes of colored breast milk: An online survey. Academy of Breastfeeding Medicine Annual Conference. Invited for poster presentation. November 2023. Schaumburg, IL.

- Benson J, Devries M, McLaurin-Jiang S, Garner CD. Experiences accessing nutritious foods pre- and postnatally among mothers with low income. Pediatric Academic Societies Meeting. Accepted for poster presentation. April, 2023. Washington, D.C.

Grant

- NHLBI / IMPROVE-CIP (2023-2025)
Sub-OTA 6922-05-IMPROVE-S003
\$1,385,989
VIBRANT MOMS
Role: PI
- Academic Pediatric Association Young Investigator Award (2022-2024)
\$13,900
Role: PI
- Don and Sybil Harrington Foundation (2022-2024)
\$200,000
Maternal Well-Being Study
Role: co-PI
- Health Disparities Research Seed Grant (2022-2024)
\$10,000 Texas Tech University Health Sciences Center
Role: co-PI
- United Way of Amarillo and Canyon (2022-2023)
\$25,000
Role: co-PI

Jones, Betsy

Publication

- Haley CA, Schechter MC, Ashkin D, Peloquin CA, Peter Cegielski J, Andrino BB, Burgos M, Caloia LA, Chen L, Colon-Semidey A, DeSilva MB, Dhanireddy S, Dorman SE, Dworkin FF, Hammond-Epstein H, Easton AV, Gaensbauer JT, Ghassemieh B, Gomez ME, Horne D, Jasuja S, Jones BA, Kaplan LJ, Khan AE, Kracen E, Labuda S, Landers KM, Lardizabal AA, Lasley MT, Letzer DM, Lopes VK, Lubelchek RJ, Patricia Macias C, Mihalyov A, Misch EA, Murray JA, Narita M, Nilsen DM, Ninneman MJ, Ogawa L, Oladele A, Overman M, Ray SM, Ritger KA, Rowlinson MC, Sabuwala N, Schiller TM, Schwartz LE, Spitters C, Thomson DB, Tregallo RR, Valois P, Goswami ND; BPaL Implementation Group. Implementation of Bedaquiline, Pretomanid, and Linezolid in the United States: Experience Using a Novel All-Oral Treatment Regimen for Treatment of Rifampin-Resistant or Rifampin-Intolerant Tuberculosis Disease. Clin Infect Dis. 2023 Oct 5;77(7):1053-1062. doi: 10.1093/cid/ciad312. PMID: 37249079.
- Jones BG, Cook RC, Morales F, Hobart KB, Berk SL. The Family Medicine Accelerated Track at Texas Tech University Health Sciences Center: Results from a 10-year program to bend the primary care curve. Accepted for publication in Medical Education Online. In Press.
- Leong, Shou Ling MD1; Gillespie, Colleen PhD2; Jones, Betsy EdD3; Fancher, Tonya MD, MPH4; Coe, Catherine L. MD5; Dodson, Lisa MD6; Hunsaker, Matthew MD7; Thompson, Britta PhD8; Dempsey, Angela MD, MPH9; Pally, Robert MD10; Crump, William MD11; Cangiarella, Joan MD12 Accelerated 3-Year MD Pathway Programs, Academic Medicine: August 10, 2021 - Volume - Issue -doi: 10.1097/ACM.0000000000004332.
- Casanova R, Yudkowsky R, Park YS, Lineberry M, Jones BG. Comparing concurrent versus post-encounter hypothesis-driven precepting to improve clinical reasoning. Submitted to Teaching and Learning in Medicine (in press)

Presentation

Oral

1. Jones BG, Clifford C, Henderson AC, Haoting J, Jimenez C, Jenschke D, McDaniel DP, Orlov E, Patel S, Schnell K, Tekell G, Turner K, Trotter D, Ward J, Hobart K. FM Accelerated Track Students Develop an OSCE Clinical Reasoning and Communication Case for Pre-Clinical Students. Oral Presentation, 2024 STFM Conference on Medical Student Education, Atlanta GA, February 8-11, 2024.
2. Jones BG, Rook E, Orlov E, Anderson A. Do Medical Students Need Education on the Health Effects of Climate Change? Poster Presentation, 2024 STFM Conference on Medical Student Education, Atlanta GA, February 8-11, 2024. Jones BG, Bruner LP, Cleland J. Clinical Reasoning for Obesity, HTN and DM: Results of an Interactive Case for MS2 Students at Two Medical Schools. Oral Presentation, 2024 STFM Conference on Medical Student Education, Atlanta GA, February 8-11, 2024.
3. Green B, Bird D, Brandon J, Drusch A, Garnsey D, Ghurye S, Makuta J, Sutterfield JS, Sopontammarak, Tovar J, Villa J, Jones BG, Ward JD, Hobart KB, Cook R, Jones BG. Family Medicine Accelerated Track Students Develop an OSCE Clinical Reasoning and Communication Case for Pre-Clinical Student Peers. Oral Presentation, 2023 TTUHSC Student Research Week, March 1, 2023.
4. Ward JD, Hobart K, Bird D, Brandon J, Drusch A, Garnsey D, Ghurye S, Green B, Makuta J, Sutterfield JS, Sopontammarak, Tovar J, Villa J, Cook RC, Jones BG. FM Accelerated Track Students Develop an OSCE Clinical Reasoning and Communication Case for Pre-Clinical Students. Oral Presentation, 2023 STFM Conference on Medical Student Education in New Orleans, LA, January 26-29, 2023.
5. Kaur, G, Brower G, Lee V Mitchell JJ, Cook RC, Jones BG, Integration of Point of Care Ultrasound into pre-clerkship curriculum and the Family Medicine Accelerated Track program, Oral Presentation, 2023 STFM Conference on Medical Student Education in New Orleans, LA, January 26-29, 2023.
6. Jones BG, Developing Our Workforce (invited presentation), Consortium of Accelerated Medical Pathway Programs (CAMPP) Annual Meeting, NYU School of Medicine, New York City, July 2023.
7. Leon SL, Cangiarella J, Jones BG, Macerollo A. Academic Success, Advancement vs Deceleration (panel), Consortium of Accelerated Medical Pathway Programs (CAMPP) Annual Meeting, NYU School of Medicine, New York City, July 2023.
8. Coe C, Jones BG, Dodson L. UME to GME Transitions (panel), Consortium of Accelerated Medical Pathway Programs (CAMPP) Annual Meeting, NYU School of Medicine, New York City, July 2023
9. Jones BG. The Rural Health Professions Workforce: An Overview of Needs, Gaps, and Coming Crises. Rural Health Professions Conference, Northern Arizona University, February 2023.

Poster

1. Shen L, Lovett J, Jones BG, Dufour J, Dunn D, Berk S. Establishing a Distinction in Medical Research Program at Texas Tech University Health Sciences Center: Four-Year Structured Medical Research Curriculum for Medical Students, Poster presentation, 2023 Southern Group on Educational Affairs, Nashville, TN, March 23-25, 2023.
2. Berk S, Rudder J, Lovett J, Jones BG, Dufour J, Dunn D, Shen LC. The Medical Student Summer Research Program at Texas Tech University Health Sciences Center: Identifying barriers and providing solutions to build research foundations, Poster presentation, 2023 Southern Group on Educational Affairs, Nashville, TN, March 23-25, 2023.
3. Leong SL, Rundell K, Coe C, Jones BG, Cangiarella J. Graduates of 3-year Accelerated MD Program: Journey of Their Training and Practice Patterns. Poster Presentation, 2023 STFM Conference on Medical Student Education in New Orleans, LA, January 26-29, 2023.

Jung, Kwanghee

Publication

1. Yoo, S., Truong, T. A., & Jung, K. (2023). Entrepreneurship education for women through project-based flipped learning: The impact of innovativeness and risk-taking on course satisfaction. *Journal of Entrepreneurship, Management and Innovation*. DOI: <https://doi.org/10.7341/20231937> [NA, 30%, SCOPUS]
2. Nguuen, V., Nguyen, C., Yoo, S., Jung, K. (2023). Unveiling Augmented Reality Applications: Exploring Influential Factors Through Comprehensive Review. *SN Computer Science*, 4, 694. <https://doi.org/10.1007/s42979-023-02175-4> [NA, 25%, SCOPUS]
3. Awuonda, K.*, Jung, K., & Lee, J. (2023). Teachers' Perceptions of Competency-Based Curriculum

Implementation and Government Support: A Mixed Methods Study on Grade 1-5 Teachers in Homabay County, Kenya. *Journal of Education and Practice*, 14, 61-77. [NA, 30%]

Presentation

Poster

1. Duru,H., Jung,K., Ihenagwam,C., Iwuji,U & Ohidah,E. The impact of family poverty on children's psychological well-being, 2023 AERA Annual Meeting, April 2023, Chicago, USA.
2. Jung, J., Jung, K., Youngblood, T., Predicting College Student Success Using a Classification Tree Model, 2023 TAIR Conference, March 2023, Houston, USA.

Grant

1. Innovating and advancing in STEM education, Wahi (PI), ED P031C210026, 10/01/2021–9/30/2026, \$4,783,323/\$227,150 (Co-I)/50%.
2. Competitive Edge Seed Grant, Developing Early Alert Dashboard Using Power BI and Machine Learning Techniques, Texas Tech University, 09/01/2023–08/31/2024, \$10,000/\$10,000 (PI)/50%.

Kahathuduwa, Chanaka

Publication

Peer-reviewed article

1. Dassanayake TL, Wijesundara D, Kahathuduwa CN, Weerasinghe VS. Dose–response effect of L-theanine on psychomotor speed, sustained attention, and inhibitory control: a double-blind, placebo-controlled, crossover study. *Nutritional Neuroscience*. 2023 Nov 2;26(11):1138-46.
2. Songtanin B, Kahathuduwa C, Nugent K. Fecal calprotectin level in microscopic colitis: a systematic review and meta-analysis. In *Baylor University Medical Center Proceedings* 2023 Jun 9; 36:5, 641-646.
3. Yavari M, Ramalingam L, Harris BN, Kahathuduwa CN, Chavira A, Biltz C, Mounce L, Maldonado KA, Scoggin S, Zu Y, Kalupahana NS. Eicosapentaenoic Acid Protects against Metabolic Impairments in the APP^{swe}/PS1^{dE9} Alzheimer's Disease Mouse Model. *The Journal of Nutrition*. 2023 Apr 1;153(4):1038-51.
4. Blume J, Dhanasekara CS, Kahathuduwa CN, Mastergeorge AM. Central Executive and Default Mode Networks: An Appraisal of Executive Function and Social Skill Brain-Behavior Correlates in Youth with Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*. 2023 Mar 29:1-5.
5. Dhanasekara CS, Payberah D, Chyu JY, Shen CL, Kahathuduwa CN. The effectiveness of botulinum toxin for chronic tension-type headache prophylaxis: A systematic review and meta-analysis. *Cephalalgia*. 2023 Mar;43(3):03331024221150231.
6. *Dhanasekara C., Ancona D., Cortes L., Hu A., Rimu A., Robohm-Leavitt C., Payne J.D., Wakefield S., Mastergeorge A., Kahathuduwa C. (2023). Association Between Autism Spectrum Disorders and Cardiometabolic Diseases: A Systematic Review and Meta-analysis. *JAMA Pediatrics*. 177. 10.1001/jamapediatrics.2022.5629.
7. Songtanin B, Tribuddharat N, Kahathuduwa C, Nugent K. Association of appendectomy with colorectal cancer: a systematic review and meta-analysis. *Journal of Clinical and Translational Research*. 2023;9(5):308-16.
8. *Shen, C.-L., Newman, J.W., Elmassry, M.M., Borkowski, K., Chyu, M.-C., Kahathuduwa, C., Neugebauer, V., Watkins, B.A. Tai Chi exercise reduces circulating levels of inflammatory oxylipins in postmenopausal women with knee osteoarthritis: results from a pilot study. *Front. Med*. 10: 1210170 (13 pp) 2023. PMID: 37654656. PMC10466388.
9. Dhanasekara C., Payberah D., Chyu J., Shen C.L., Kahathuduwa C. (2023). The effectiveness of botulinum toxin for chronic tension-type headache prophylaxis: A systematic review and meta-analysis. *Cephalalgia*. 43. 033310242211502. 10.1177/03331024221150231.
10. Dhanasekara C., Kahathuduwa C. (2023). Considerations Regarding Autism Spectrum Disorders and Cardiometabolic Diseases-Reply. *JAMA pediatrics*. 177. 10.1001/jamapediatrics.2023.1025.

Presentation

Poster

1. ***Shen, C.L.**, Newman J., Elmassry M., Borkowski K., Chyu M.C, **Kahathuduwa C.**, **Neugebauer V.**, Watkins B. (2023). P27-035-23 Dietary PUFA Interactions With Exercise To Alter Neuroinflammation. *Current Developments in Nutrition*. 7. 101242. 10.1016/j.cdnut.2023.101242.

Grant

1. Research and Extension Experiences for Undergraduates, Agriculture and Food Research Initiative, (NIFA, USDA), “Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program.” (\$500,000, 5/2021 to 4/2026). Dufour (Collaborating Mentor), Moustaid-Moussa (Director)

Award

1. First place in the iLaunch (innovative startup idea pitch competition) organized by Texas Tech University Innovation Hub (for the startup company MelodiaSync) – 2023

Kaur, Gurvinder

Award

1. Outstanding faculty of the year-MS1; TTUHSC Student Government Association
2. Outstanding faculty of the year-Graduate Medical Education Sciences; TTUHSC Student Government Association

Publication

1. *Martinez-Marin D, Helmer RA, Kaur G, Washburn RL, Martinez-Zaguilan R, Sennoune SR, Dufour JM, Chilton BS. 2023 Helicase-like transcription factor (HTLF)-deleted CDX/TME model of colorectal cancer increased transcription of oxidative phosphorylation genes and diverted glycolysis to boost S-glutathionylation in lymphatic intravascular metastatic niches. *PLOS One* (accepted for publication).
2. *Kaur G, Helmer RA, Martinez-Marin D, Sennoune SR, Washburn RL, Martinez-Zaguilan R, Dufour JM, Chilton BS. 2023 Helicase-like transcription factor (Hltf)-deletion activates Hmgb1-Rage axis and granzyme A-mediated killing of pancreatic β cells resulting in neonatal lethality. *PLOS One* 18(8): e0286109. doi: 10.1371/journal.pone.0286109. eCollection 2023.
3. *Ochoa O, Coleman B, Sellers J, Kaur G. 2023 Creating a ripple effect-How an educational project led by GMES students enriched the medical school curriculum. *PBP Wire* (The official bi-annual newsletter of the Association of STEMM Pathway and Bridge Programs (ASPBP)) Vol 3_0132023.
4. *Shen CL, Dufour JM, Miranda JM, Kaur G, Chung E, Ramalingam L, Moustaid-Moussa N, Cao JJ. 2023 Effect of dietary geranylgeraniol and green tea polyphenols on glucose homeostasis, bone turnover biomarkers and bone microstructure in obese mice. *International Journal of Molecular Sciences* Jan 4;24(2):979. doi: 10.3390/ijms24020979.

Presentation

Poster

1. Bernstein E, Chilton BS, Dufour JM, Kaur G. Connecting the Layers: Enhancing Medical Students Knowledge of Male and Female Perineum Anatomy. 40th Annual Meeting of the American Association of Clinical Anatomists (Orlando, FL, July 9-12, 2023). Awarded the Sandy C. Marks Jr. poster award (Medical Education category).
2. Lowry CV, Bandaru V, Hewetson A, Bishop K, Schneider BS, Kaur G. Case Study: Descendens Vagi Replacing Normal Ansa Cervicalis. 40th Annual Meeting of the American Association of Clinical Anatomists (Orlando, FL, July 9-12, 2023).
3. Jameson N, Taylor G, Mortensen J, Kaur G. Effect of Pass/Fail Medical School Curriculum on Student Wellness and Extracurricular Involvement. 40th Annual Meeting of the American Association of Clinical Anatomists (Orlando, FL, July 9-12, 2023).
4. Chilton BS, Kaur G, Helmer RA, Martinez-Marin D, Sennoune SR, Washburn RL, Martinez-Zaguilan R, Dufour JM. Helicase-like transcription factor (Hltf) protein isoforms: a matter of life and death. 5th International Caparica Conference in SPLICING (Caparica, Portugal, July 17-20, 2023).

Oral

1. Dufour JM, Washburn RL, **Kaur G**, Hibler H, Miranda JM, Rodriguez AR, Martinez-Marin D, Sabu-Kurian S, Chilton BS. Immunoprotective Sertoli cells in transplantation. 48th Annual Conference American Society of Andrology (Boston, MA, April 19-23, 2023)- Women in Andrology lecture.

Lawrence, John

Publication

1. M. Pourghaed, A. Sarangi, F. Ramirez-Velandia, J. Kopel, J. Culberson, G. Ashworth, H. Khan, A. Boles, V. Neugebauer, and J. J. Lawrence. Associations between Vitamin D Deficiency/Insufficiency and Depression Expose Health Disparities in Older Rural West Texans: A Project FRONTIER Study. *Accepted 1/23/24 to the American Journal of Geriatric Psychiatry*.
2. J. Majeed, M. N. Sabbagh, M. H. Kang, J. J. Lawrence, K. Pruitt, S. Bacus, E. Reyna, M. Brown, B. Decourt (2024) "Cancer drugs with high repositioning potential for Alzheimer's disease", Expert Opinion On Emerging Drugs. *Accepted 12/13/23. In press*.
3. J. Almaguer, A. Hindle, and J. Josh Lawrence. The Contribution of Hippocampal All-Trans Retinoic Acid (ATRA) Deficiency to Alzheimer's Disease: A Narrative Overview of ATRA-Dependent Gene Expression in Post-Mortem Hippocampal Tissue. *Antioxidants* 2023, 12, 1921. <https://doi.org/10.3390/antiox12111921>
4. Rostislav Turecek, Adolf Melichar, Michaela Kralikova, and Bodhana Hruskova. The role of GABAB receptors in the subcortical pathways of the mammalian auditory system. *Frontiers in Endocrinology – Cellular Endocrinology*. Edited by Ralf Jockers; reviewed by J. Josh Lawrence and another reviewer. Accepted 7/24/23.

Presentation

Oral

1. J. J. Lawrence. The role of vitamin A in Alzheimer's disease pathogenesis and progression: implications for prevention across the gut-liver-brain axis. Department of Cellular and Integrative Physiology Seminar Series, University of Texas Health Sciences Center-San Antonio, October 16th, 2023.
2. J. J. Lawrence. Molecular Mechanisms of Neuroprotection Mediated by Retinoids. Traumatic Brain Injury Mini-Symposium. Center for Biotechnology and Genomics, Texas Tech University, Lubbock, TX, February 9th, 2023.
3. J. J. Lawrence. The Role of Vitamin A in Alzheimer's Disease. *Data Blitz Presentation*. TARCC 2023 Scientific Symposium – Advances in Alzheimer's Disease Science, Research, and Care, Austin, TX, January 26th, 2023
4. J. J. Lawrence. Evaluation of loss of acetylcholine-GABA interactions and behavioral deficits in a novel transgenic "autism" mouse model. CH Foundation Trustees Visit, Texas Tech University Health Sciences Center, Lubbock, TX, September 25th, 2023.
5. J. J. Lawrence. The relationship between Vitamin A status and Alzheimer's Disease: New Emerging Frontiers. Department of Biological Sciences Seminar Series, Texas Tech University, Lubbock, TX, November 29th, 2023 (Host: Dr. Peter Keyel)
6. J. J. Lawrence. Vitamin A Deficiency in Alzheimer's Disease. Second Healthy Aging and Dementia Research Symposium, Texas Tech University Health Sciences Center, Lubbock TX, October 26th, 2023. (Host: Dr. Hemachandra Reddy)
7. A. Hindle, S.C. Smith, M. Hernandez, J. Medina, C. Bose, J. Strickland, I. Guzman, C. Zhang, and J. J. Lawrence. Validation of the RARE-LacZ mouse model for the study of retinoic acid signaling in Alzheimer's disease, Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
8. C. Bose, A. Hindle, S. C. Smith, J. Strickland, I. Guzman, and J. J. Lawrence. Crosstalk between Histone Deacetylases and Vitamin A in Alzheimer's disease: The role of HDAC inhibition. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.

9. J. J. Lawrence. Lipophilic vitamin sufficiency in the prevention of Alzheimer's Disease. Obesity Research Institute Fall 2023 Seminar Series: Neuroscience and Obesity, Texas Tech University and Texas Tech University Health Sciences Center, Lubbock, TX, September 13th, 2023.
10. J. J. Lawrence. Introduction to Confocal Microscopy. Faculty Resources Committee Meeting, Department of Pharmacology and Neuroscience, Texas Tech University Health Sciences Center, June 9th, 2023.
11. J. J. Lawrence. Molecular Mechanisms of Neuroprotection Mediated by Retinoids. Traumatic Brain Injury Research Mini-Symposium, Center for Biotechnology and Genomics, Texas Tech University, February 9th, 2023.
12. J. J. Lawrence. The Role of Vitamin A in Alzheimer's Disease and Updates on the Society for Neuroscience West Texas Chapter. Cognition and Cognitive Neuroscience Brown Bag Seminar Series, Department of Psychological Sciences, Texas Tech University, February 6th, 2023, Lubbock, TX.
13. J. J. Lawrence. New Graduate School of Biomedical Sciences Student Orientation, Texas Tech University Health Sciences Center, Lubbock, TX, May 23rd, 2023.

Abstracts (National/Regional Meetings):

Poster

1. R. McCready, C. Morris, and J. J. Lawrence. Associations between Diabetes, Cognitive Status, and Hispanic/Latino Ethnicity amongst Older Rural West Texans: A Project FRONTIER Study. Second Annual West Texas Health Disparities Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, March 22nd-23rd, 2024.
2. C. Morris, R. McCready, G. McCrea, B. Decourt, and J. J. Lawrence. Reduced Health Care Accessibility Increases Risk of Vitamin D Deficiency/Insufficiency: A Project FRONTIER Study. Second Annual West Texas Health Disparities Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, March 22nd-23rd, 2024.
3. C. Bose, A. Hindle, A. Baker, S. C. Smith, J. Strickland, I. Guzman, S. P. Singh, and J. J. Lawrence. Crosstalk between histone deacetylases and vitamin A in Alzheimer's disease: the role of HDAC inhibition. Texas Alzheimer's Research and Care Consortium, Austin, TX, February 8th, 2024.
4. C. Morris, R. McCready, G. McCrea, B. Decourt, and J. J. Lawrence. Reduced Health Care Accessibility Increases Risk of Vitamin D Deficiency/Insufficiency: A Project FRONTIER Study. Texas Alzheimer's Research and Care Consortium, Austin, TX, February 8th, 2024.
5. C. Lawrence and J. J. Lawrence. Vitamin A Deficiency in Children with Autism Spectrum Disorder. Sixth Annual Abilene Interdisciplinary Symposium on Cancer and Biomedical Research, Texas Tech University Health Sciences Center, Abilene, TX, October 27th, 2023.
6. G. Rudd, M. Mahmud-Syed, B. Liu, and J. J. Lawrence. Vitamin A Deficiency Drives Alzheimer's Disease Progression through Dysregulation of Glucocorticoid Signaling. TARCC 2023 Scientific Symposium – Advances in Alzheimer's Disease Science, Research, and Care, Austin, TX, #12, January 26th, 2023.
7. N. Vojtkovsky, M. Buxton, and J. J. Lawrence. Analyzing Relationships Between Fatty Liver Disease, Vitamin D, Alcohol Consumption, and Cognitive Impairment In A Rural West Texas Elderly Cohort. Texas Alzheimer's Research and Care Consortium 2023 Scientific Symposium – Advances in Alzheimer's Disease Science, Research, and Care, Austin, TX, #60, January 26th, 2023.
8. M. Buxton, The Interplay between All-Trans Retinoic Acid, The Gut-Brain Axis, And The Pathogenesis of Alzheimer's Disease: A Potential Mechanism. TARCC 2023 Scientific Symposium – Advances in Alzheimer's Disease Science, Research, and Care, #65, January 26th, 2023, Austin, TX.
9. C. Morris, R. McCready, G. McCrea, B. Decourt, and J. J. Lawrence. Examining Relationships Between Hispanic/Latino Ethnicity, Healthcare Access, Vitamin D Deficiency, and General Health Rating among Aging Rural West Texans: A Project FRONTIER Study. 36th Annual Student Research Week 2024: Brain Wars: May The Neurons Be With You, Texas Tech University Health Sciences Center, Lubbock, TX, February 28th-March 1st, 2024.
10. R. McCready, C. Morris, and J. J. Lawrence. Associations between Vitamin D, Diabetes, Cognitive Status, and Hispanic/Latino Ethnicity amongst Older Rural West Texans: A Project FRONTIER Study. 36th Annual Student Research Week 2024: Brain Wars: May The Neurons Be With You, Texas Tech University Health Sciences Center, Lubbock, TX, February 28th-March 1st, 2024.
11. C. Zhang, M. Shapiro, and J. J. Lawrence. Vitamin K2 in Healthy Aging and Protection Against Alzheimer's Disease Pathogenesis: Potential Mechanisms Mediated by Osteocalcin. Science and the

- Humanities Interdisciplinary Conference, The Texas Tech Honors College, Texas Tech University, Lubbock, TX, November 12-13th, 2023.
12. G. Jumayeva, M. Pourghad, and J. J. Lawrence. Environmental and genomic aspects of Vitamin D deficiency in Alzheimer's Disease and depression: Insights into health disparity populations. Second Healthy Aging and Dementia Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, October 25th, 2023.
 13. S. Daly, G. McCrea, M. Buxton, N. Vojtkofsky, and J. J. Lawrence. The Interplay between All-trans Retinoic Acid, the Gut-Brain Axis, and the Pathogenesis of Alzheimer's Disease: A Potential Mechanism. Second Healthy Aging and Dementia Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, October 25th, 2023.
 14. S. Smith, A. Hindle, M. Hernandez, A. Baker, J. Medina, C. Bose, J. Strickland, I. Guzman, C. Zhang, and J. J. Lawrence. The Study of Retinoic Acid Signaling in Alzheimer's Disease Using Bi-Transgenic Crosses of RARE-LacZ Mice. Second Healthy Aging and Dementia Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, October 25th, 2023.
 15. J. Medina, M. Hernandez, A. Baker, A. Hindle, and J. J. Lawrence. Visualizing retinoic acid signaling in dentate gyrus granule cells and spatial relationships with parvalbumin circuit elements. Transformative Undergraduate Experiences Symposium, Texas Tech University, Lubbock, TX, October 21st, 2023.
 16. C. Zhang and J. J. Lawrence. Vitamin K2 in Healthy Aging and Protection Against Alzheimer's Disease Pathogenesis: Potential Mechanisms Mediated by Osteocalcin. Transformative Undergraduate Experiences Symposium, Texas Tech University, Lubbock, TX, October 20th, 2023.
 17. *Charlie Zhang won 1st Place in this symposium. He was featured in the December 2023 edition of the Newsletter of the Garrison Institute of Aging.
 18. Zambrano and J. J. Lawrence. A holistic approach to the mechanisms of action of flaxseed chemical components: Possible integrative actions on gut-brain axis in protection against Alzheimer's Disease pathogenesis. Transformative Undergraduate Experiences Symposium, Texas Tech University, Lubbock, TX, October 20th, 2023.
 19. J. Medina, M. Hernandez, A. Baker, A. Hindle, and J. Josh Lawrence. Visualizing retinoic acid signaling in dentate gyrus granule cells and spatial relationships with parvalbumin circuit elements. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
 20. S. C. Smith, A. Hindle, C. Sanchez Villalobos, F. Tsurukawa, R. Pal, and J. J. Lawrence. Retinoic Acid Signaling and Rbp1 Dysregulation in Alzheimer's Disease and Obesity. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
 21. C. Sanchez Villalobos, F. Tsurukawa, J. J. Lawrence, and R. Pal. Relief based analyses on recent human postmortem hippocampal datasets elucidate interactions among Rbp1 and other proteins that differentiate Alzheimer's Disease from age-matched controls. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
 22. Grace McCrea, Sean Daly, Matthew Buxton, Nicholas Vojtkofsky, and J. Josh Lawrence. The Interplay between All-trans Retinoic Acid, the Gut-Brain Axis, and the Pathogenesis of Alzheimer's Disease: A Potential Mechanism. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
 23. C. Zhang and J. J. Lawrence. Vitamin K2 in Healthy Aging and Protection Against Alzheimer's Disease Pathogenesis: Potential Mechanisms Mediated by Osteocalcin. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
 24. Zambrano and J. J. Lawrence. A holistic approach to the mechanisms of action of flaxseed chemical components: Possible integrative actions on gut-brain axis in protection against Alzheimer's Disease pathogenesis. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.

25. G. Jumayeva, M. Pourghaed, and J. J. Lawrence. Environmental and genomic aspects of Vitamin D deficiency in Alzheimer's Disease and depression: Insights into health disparity populations. Eighth Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging, Texas Tech University Health Sciences Center, Taos, NM, October 5th-6th, 2023.
26. J. Medina, M. Hernandez, A. Hindle, and J. J. Lawrence. Visualizing retinoic acid in the hippocampal dentate gyrus and its relationship to parvalbumin interneurons. Summer Accelerated Biomedical Research Symposium, Texas Tech University Health Sciences Center, Lubbock, TX, August 4th, 2023.
27. M. Hernandez, A. Hindle, J. Medina, O. Ponomareva, E. Burroughs, J. Bailoo, and J. J. Lawrence. Retinoic acid signaling in the hippocampal dentate gyrus and its association with learning. Seventh Annual Symposium of the Center for Excellence for Translational Neuroscience and Therapeutics, Texas Tech University Health Sciences Center, Lubbock, TX, May 10th, 2023.
28. L. Evans, M. Engavale, A. Infante, J. Lawrence, and P. A. Keyel. Neurological degeneration and Lupus-like phenotypes emerge in mice upon deletion of Dnase1L3. Seventh Annual Symposium of the Center for Excellence for Translational Neuroscience and Therapeutics, Texas Tech University Health Sciences Center, Lubbock, TX, May 10th, 2023.
29. G. McCrea, S. Daly, M. Buxton, N. Vojkofsky, A. Hindle, L. Vasquez-Weber, and J. J. Lawrence. The Interplay between All-trans-retinoic acid, the Gut-Brain axis, and the Pathogenesis of Alzheimer's Disease: A Potential Mechanism. Seventh Annual Symposium of the Center for Excellence for Translational Neuroscience and Therapeutics, Texas Tech University Health Sciences Center, Lubbock, TX, May 10th, 2023.
30. C. Sanchez-Villalobos, R. Pal, and J. J. Lawrence. Ranking gene expressions on hippocampal transcriptomes elucidate differentiating genes in Alzheimer's Disease. Seventh Annual Symposium of the Center for Excellence for Translational Neuroscience and Therapeutics, Texas Tech University Health Sciences Center, Lubbock, TX, May 10th, 2023.
31. P. Antwi-Adjei, M. Pourghaed, A. Sarangi, F. Ramirez Velandia, A. Boles, V. Neugebauer, and J. J. Lawrence. Associations between Vitamin D Deficiency/Insufficiency and Diabetes in Older Rural West Texans: A Project FRONTIER Study. Seventh Annual Symposium of the Center for Excellence for Translational Neuroscience and Therapeutics, Texas Tech University Health Sciences Center, Lubbock, TX, May 10th, 2023.*Mr. Antwi-Adjei won Best Poster Award in the Clinical Graduate Student Category.
32. J. Medina, M. Hernandez, A. Hindle, E. Burroughs, and J. J. Lawrence. Visualizing retinoic acid signaling in the hippocampal dentate gyrus and its association with learning. 2023 Undergraduate Research Conference, Texas Tech University, Lubbock, TX, April 11th, 2023.*Ms. Medina won 1st Place in the Toreador Presenter category.
33. C. Sanchez-Villalobos, R. Pal, and J. J. Lawrence. Ranking gene expressions on hippocampal transcriptomes elucidate differentiating genes in Alzheimer's Disease. 35th Annual Student Research Week 2023: Lord of the Genes: Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX, February 28th-March 3rd, 2023.
34. P. Antwi-Adjei, M. Pourghaed, A. Sarangi, F. Ramirez Velandia, A. Boles, V. Neugebauer, and J. J. Lawrence. Associations between Vitamin D Deficiency/Insufficiency and Diabetes in Older Rural West Texans: A Project FRONTIER Study. 35th Annual Student Research Week 2023: Lord of the Genes: Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX, February 28th-March 3rd, 2023.
35. J. Medina, M. Hernandez, A. Hindle, and J. J. Lawrence. Visualizing retinoic acid signaling in the hippocampal dentate gyrus and its association with learning. 35th Annual Student Research Week 2023: Lord of the Genes: Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX, February 28th-March 3rd, 2023.
36. G. Rudd, M. Mahmud-Syed, B. Liu, and J. J. Lawrence. Vitamin A Deficiency Drives Alzheimer's Disease Progression through Dysregulation of Glucocorticoid Signaling. 35th Annual Student Research Week 2023: Lord of the Genes: Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX, February 28th-March 3rd, 2023.

Grant

1. Transcriptional Dysfunction in Dentate Gyrus Cell Types: Roles of Retinoic Acid Responsive Genes in Protection Against Alzheimer's Disease Pathogenesis
NIH R01 AG071859-01A1
Lawrence (PI) 1/1/2022-12/31/2026
Total costs: \$1,872,220
2. Characterizing Electron Emission for Nanoemitter Arrays Using Theory and Molecular Simulations
Subcontract title: Numerical Modeling ICWERX/CIA
Joshi (Lead TTU PI)
Lawrence (Lead TTUHSC PI)
6/26/2023-6/30/2024. Subcontract total costs: \$67,325
3. The hippocampal dentate gyrus in aging and Alzheimer's disease: boosting transcription of retinoic acid-sensitive genes through HDAC inhibition and vitamin A supplementation
NIH R01 AG073826-01A1
Lawrence (PI) 8/1/2022-4/30/2027
Total costs: \$3,158,615

Lee, Jaehoon

Publication

1. Assimonye, S., Lee, J., Smith, S., Glenn, J., Kennedy, M., & Ramaswamy, M. (in press). Understanding the changing social and health circumstances of women leaving jail: A social bonds analysis. *Women & Criminal Justice*.
2. Awuonda, K.*, Jung, K., & Lee, J. (2023). Teachers' perceptions of competency-based curriculum implementation, and government support: A mixed methods study on grade 1-5 teachers in Homabay County, Kenya. *Journal of Education and Practice*, 14(9), 61–77.
3. Bagwell-Gray, M. E., Garcia-Hallett, J., Lee, J., Kepple, N. J., Sisson, M., Comfort, M., & Ramaswamy, M. (in press). Black women's physical, mental, and sexual health in the criminal legal system: Influences of victimization, healthcare access, and living conditions. *Affilia: Feminist Inquiry in Social Work*.
4. Barlow, S. M., Liao, C., Lee, J., Kim, S.*, Maron, J. L., Song, D., Jegatheesan, P., Govindaswami, B., Wilson, B. J., Bhakta, K., & Cleary, J. (in press). Spectral features of non-nutritive suck dynamics in extremely preterm infants. *Pediatric Medicine*.
5. Carter, S., Noble, N., Lee, J., Li, X.*, & Crews, C. (2023). Acceptability of active shooter prevention strategies on college and university campuses. *Journal of Prevention*, 44(2), 165–179.
6. Chu, S.-Y., Rafi, A. B. M., Lee, J., Fierro, V., Gan, C.-H., Joginder Singh, S., Hersh, D., & Lin, L.-Y. (in press). The relationship between affiliate stigma, stress and quality of life for parents of individuals with cerebral palsy in Malaysia. *Disability and Rehabilitation*.
7. Chu, S.-Y., Lee, J., Wong, W.-Y., Gan, C.-H., Fierro, V., & Hersh, D. (2023). Knowledge mediates attitude in Autism spectrum disorders? Data from Malaysia. *International Journal of Developmental Disabilities*, 26(4), 568–577.
8. Gibson, C. A., Gupta, A., Naik, A., Sullivan, D. K., Doshi, M., Backes, J., Harvey, S., Lee, J., Mount, R., Valentine, H., & Shaffer, K. (2023). Developing a healthy lifestyle program for recent kidney transplant recipients. *Progress in Transplantation*, 33(3), 193–200.
9. Guo, L., Wang, J., Lee, J., & Lesley, M. (in press). Examining the differentiated impacts of balanced literacy: An analysis of reading comprehension skills. *Reading & Writing Quarterly*.
10. Kennedy, P., Ratnaparkhi, R., Lee, J., Glenn, J. E., Kelly, P. J., Kimminau, K. S., Assimonye, S., & Ramaswamy, M. (2023). Case example of a jail-based cancer prevention clinical trial: Social determinants of health framework, novel experimental design, and retention strategies to facilitate long-term follow-up of clinical trial participants. *Journal of Clinical and Translational Science*, 7, e163.
11. Lee, S.-A., Lee, J., & Davis, B. L. (in press). Revisiting frequencies of phonological sound classes in speech input: Change over time in child-directed speech. *Journal of Child Language*.
12. Montelongo, M., Lee, J., Poa, E., Boland, R., Rufino, K. A., Patriquin, M., & Oh, H. (2023). A next-generation approach to mental health outcomes: Treatment, time, and trajectories. *Journal of Psychiatric Research*, 158, 172–179.
13. O'Brien, B., Lee, J., Kim, S.*, Nandra, G. S., Pannu, P., Swann, A. C., Murphy, N., Tamman, A. J. F., Amarnah, D., Lijffijt, M., Averill, L. A., & Mathew, S. J. (2023). Replication of distinct trajectories of antidepressant response to intravenous ketamine. *Journal of Affective Disorders*, 321, 140–146.
14. O'Brien, B., Lee, J., Kim, S.*, Nandra, G. S., Pannu, P., Tamman, A., Amarnah, D., Swann, A. C., Murphy, N., Averill, L., Jha, M., & Mathew, S. J. (2024). Anti-suicidal effects of IV ketamine in a real-world setting. *Psychiatry Research*, 331, 115604.

15. Oh, H., Lee, J., Patriquin, M. A., Oldham, J. M., & Salas, R. (2023). Reward processing in psychiatric inpatients with depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 8(7), 731–740.
16. Pandey, Y., Lee, J., Banda, D., Griffin-Shirley, N., Nguyen, T., & Othuon, V. (2023). A survey of mobile app use among university students with visual impairment in India. *British Journal of Visual Impairment*, 41(3), 675–686.
17. Park, H.-R., Moon, H.*, Kim, Y.-S.*, Karkar Esperat, T.-M.*, & Lee, J. (2023). A meta-analysis on adjustment difficulties in siblings of children with and without autism spectrum disorder. *International Journal of Special Education*, 38(1), 16–33.
18. Shepard, C. A., Rufino, K. A., Lee, J., Tran, T., Paddock, K., Wu, C., Oldham, J. M., Mathew, S. J., & Patriquin, M. A. (2023). Nighttime sleep quality and daytime sleepiness predicts suicide risk in adults admitted to an inpatient psychiatric hospital. *Behavioral Sleep Medicine*, 21(2), 129–141.
19. Wheeler, K.*, Hixson, J., Hamrick, J., Lee, J., & Ratliff, C. (in press). Behavior analysts' training and practice regarding trauma-informed care. *Behavior Analysis in Practice*.

Presentation

1. Archer, J., Zhang, Y., Lee, J. H., ACM Global Computing Education Conference 2023, "Developing an assessment of abstraction for an integrated curriculum for middle school students," Hyderabad, India. (December 2023).
2. Loeb, D., Suterwala, M. S., Carey, K. M., Cadungog, R., Reynolds, J., Ritter, M., Desai, S., Lee, J. H., Beaulieu, M., Bauman, S., Simpkins, L. L., American Speech-Language-Hearing Association, "A caregiver read aloud intervention in the NICU for children born preterm," Boston, MA. (November 2023).
3. Spring, G. R., Hiles, M., Gibson, C. A., Lee, J. H., Comfort, B., Brubacher, M., Society of General Internal Medicine, "Exploring characteristics of patients using telehealth vs in-person visits in general internal medicine clinic," Chicago, IL. (October 2023).
4. Ong, Y.-Q., Chu, S.-Y., Park, H.-R., Harrison, E., Lee, J., Ng, L.-S., Allied Health Scientific Conference, "Awareness and attitudes of speech–language pathologists' and speech-language pathology students towards stuttering In Malaysia," Kuala Lumpur, Malaysia. (September 2023).
5. Server, I. M. (Presenter Only), Juarez, L. (Presenter Only), Dwyer, J. (Author Only), Lee, J. H. (Author Only), Williams, G. (Author Only), MAA (Mathematical Association of America) MathFest, "Revised Calculus Concept Inventory (RCCI): Challenges in Creating a Fair Instrument Across Subgroups," Tampa, Florida. (August 3, 2023).
6. Awuonda, K. W., Jung, K., Lee, J. H., ATE's Summer Conference 2023, "Teachers' Perceptions of Competency-Based Curriculum Implementation, and Government Support: A Mixed Methods Study on Grade 1-5 Teachers in Homabay County, Kenya," Association of Teacher Educators, Washington D.C, USA. (July 2023).
7. Urias, E., Lee, J. H., Weil, C. R., Lloyd, S., Kokeny, K., Hashibe, M., Maity, A., Tao, R., American Radium Society, "Meta-analysis of safety and clinical outcomes of clinical trials investigating ablative-dose radiotherapy with immune checkpoint inhibitors in patients with metastatic cancers," Lahaina, HI. (May 2023).
8. Barlow, S. M., Maron, J. L., Song, D., Jegatheesan, P., Govindaswami, B., Wilson, B. J., Bhakta, K., Lee, J. H., Global Summit on Nursing Trends, "Somatosensory-modulated ororythmic patterning and transition to oral feeds in EPIs: an NIH randomized controlled trial," Rome, Italy. (April 2023).
9. O'Brien, B., Lee, J. H., Kim, S., Wells, A., Averill, L., Murphy, N., Tamman, A., Swann, A. C., Amarnah, D., Mathew, S. J., American Society of Clinical Psychopharmacology, "Differential trajectories of depressive symptom response to IV ketamine: Examining sleep, core emotional and atypical symptoms changes in a large, real world sample of depressed adults," Miami, Florida. (March 2023).

Grant

1. Characterizing the effects of chronic substance misuse on auditory and vestibular function, Chiao (PI), NIH 1R01DC021301, 07/03/2023–6/30/2028, \$2,418,732 (Co-I).
2. Developing cyber-aerial computing curriculum for improving sky-of-privacy-things education through a modular-based integrated framework, Lim (PI), NSF 2335681, 10/01/2023–09/30/2025, \$299,448 (Senior Personnel).

3. Innovating and advancing in STEM education, Wahi (PI), ED P031C210026, 10/01/2021–9/30/2026, \$4,783,323 (Co-I).
4. Kansas-Missouri Nutrition Incentive Collaborative, USDA, 10/01/2020–09/30/2024, \$710,415 (Co-I).
5. Revised Calculus Concept Inventory: Measuring the learning gains of first year calculus students, Lee (PI), NSF 1916751, 10/01/2019–09/30/2024, \$300,000 (PI).
6. Sexual health empowerment for jail-involved women's health literacy and prevention, Ramaswamy (PI), NCI R01CA181047, 04/01/2019–03/31/2024, \$1,602,097 (Co-I).
7. Tri-city cervical cancer prevention study among women in the justice system, Ramaswamy (PI), NCI R01CA226838, 09/01/2018–08/31/2024, \$2,929,836 (Co-I).
8. Teacher Incentive Allotment, Hamman (PI), Texas Education Agency, 11/01/2019–08/31/2027, \$33,086,451 (Co-PI).
9. Competitive Edge Seed Grant: Developing early alert dashboard using Power BI and machine learning techniques, Jung (PI), Texas Tech University, 09/01/2023–08/31/2024, \$11,890 (Co-PI).
10. Curcumin and retinal amyloid-beta pilot study, Shen (PI), Sabinsa Corporation, 04/01/2023–03/31/2024, \$94,991 (Co-I).
11. Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy, Shen (PI), American River Nutrition, 01/01/2022–12/31/2023, \$266,294 (Co-I).
12. Oral diadochokinesis among Malaysian-Malay speakers: A comparative study of neurotypical adults and individuals with Parkinson's disease, Chu (PI), National University of Malaysia, 01/26/2023–01/25/2025, RM 100,000 = US \$21001 (Co-I).

Lee, Sueann

Publication

1. Lee, S.A.S., Nguyen Phuoc, T. M., Truong Thi, N.Q., Dang Thi, H.T., Ho Thi, Linh. M., Ha, N.C. (2023). Phonological acquisition in Vietnamese-speaking children with central dialect. *Speech, Language, and Hearing*
2. Lee, S.A.S.** , Lee, J., & Davis, B. L. (2023). Revisit frequency of phonological categories in speech input: Change over time. *Journal of Child Language*

Grant

1. \$25,000 American Speech, Language, and Hearing Association, International Conference Support Program.

Presentation

Oral

1. Lee, S.A.S. (2023). Innovation in speech intervention: Use of ultrasound technology. 2nd conference of Vietnamese Audiology Conference, Nha Trang, Vietnam, June 1-3.
2. Lee, S.A.S. (2023). The effectiveness of telepractice service delivery model in phonological awareness intervention for children with hearing loss. Invited talk at Vietnamese Audiology Conference, Nha Trang, Vietnam
3. Lee, S.A.S. (2023). Use of ultrasound in speech intervention for children with hearing loss. Invited talk at Seoul Cleft 2023, Seoul, Korea,
4. Lee, S.A.S. (2023). Speech assessment and intervention. 3 hour workshop at Vietnamese Audiology Conference, Nha Trang, Vietnam

Luk, HuiYing

Publication

Peer-referred article

1. Appell, C. R., Jiwan, N. C., Wang, R., Shen, C. L., & Luk, H. Y. (2023). Ginger Root Supplementation Attenuated Mitochondrial Fusion and Improved Skeletal Muscle Size in Type 2 Diabetic Rats. *In vivo (Athens, Greece)*. Accepted. In press.
2. Keefe, M. S., Luk, H. Y., Rolloque, J. S., Jiwan, N. C., McCollum, T. B., & Sekiguchi, Y. (2023). The WUT (Weight, Urine Color, and Thirst) Venn Diagram is an Accurate Tool Compared to Urinary and Blood

Markers for Hydration Assessment at Morning and Afternoon Timepoints in Euhydrated and Free-Living Individuals. *The British journal of nutrition*, 1–21. Advance online publication. <https://doi.org/10.1017/S000711452300274X>

3. Zinn, J., Sekiguchi, Y., Vingren, J., Luk, H.Y., Wright, SS., Munoz, CX., McKenzie, AL., Ganio, MS., McDermott, BP., Armstrong, LE., Williamson, K., & Bivona, JJ. (2023) LPS-induced TLR4 Activation during a 164-km and 100-km Cycling Event in a Hot and Humid Environment. Cytokine. *Asian Exercise and Sport Science Journal*, 7(1)
4. Jiwan, N. C., Appell, C. R., Keefe, M. S., Dunn, R. A., Luk, H. Y., & Sekiguchi, Y. (2023). Storing urine samples with moisture preserves urine hydration marker stability up to 21 days. *International urology and nephrology*, 10.1007/s11255-023-03581-6. Advance online publication. <https://doi.org/10.1007/s11255-023-03581-6>
5. Levitt, D. E., Luk, H.Y., Vingren, J. L. (2023). Alcohol, resistance exercise, and mTOR pathway signaling: An evidence-based narrative review. *Biomolecules*, 13(1). <https://doi.org/10.3390/biom13010002>

Presentation

Poster

1. Jiwan, N. C.; Appell, C.R; Sterling, R.; Shen, C.L.; **Luk, H.Y.** The Effect Of Geranylgeraniol On Satellite Cells Myogenic State In Type 2 Diabetic Rats: 663. *Medicine & Science in Sports & Exercise*: September 2023 - Volume 55 - Issue 9S - p 225-226. 10.1249/01.mss.0000981804.13727.46
2. Appell, C.R; Jiwan, N. C.; Shen, C.L.; **Luk, H.Y.** Curcumin Mitigates Neuropathic-Induce Muscle Atrophy By Suppressing CaMK2/NF-kB Pathway: 2236. *Medicine & Science in Sports & Exercise*: September 2023 - Volume 55 - Issue 9S - p 737. doi: 10.1249/01.mss.0000986760.49418.c7
3. Ellis, R.T.; Jiwan, N. C.; Trevino, I.R.; Appell, C.R.; Lewis, C.; Sterling, R.; Ky, A.T.; Rolloque, J.S.; Keefe, M.S.; Dunn, R.A.; Sekiguchi, Y.; and **Luk, H.Y.** The Effect Of Hydration Status On Sleep Before And After Resistance Exercise: A Pilot Study: 798. *Medicine & Science in Sports & Exercise*: September 2023 - Volume 55 - Issue 9S - p 277. 10.1249/01.mss.0000982316.95448.64
4. Rolloque, J.S.; Keefe, M.S.; Jiwan, N.C.; Appell, C.R.; Pomroy, M.; **Luk, H.Y.**; and Sekiguchi, Y. Sex Differences In The Accuracy Of WUT (Weight, Urine Color, Thirst) Diagrams Assessing Hydration Status: 804. *Medicine & Science in Sports & Exercise*: September 2023 - Volume 55 - Issue 9S - p 279-280. 10.1249/01.mss.0000982340.37006.49
5. Keefe, M. S.; Rolloque, J.S.; Jiwan, N.C.; Appell, C.R.; McCollum, T.; **Luk, H.Y.**; and Sekiguchi, Y. Relationships Between Morning And Afternoon WUT (Weight, Urine Color, And Thirst) Criteria And Hydration Markers: 820. *Medicine & Science in Sports & Exercise*: September 2023 - Volume 55 - Issue 9S - p 286. 10.1249/01.mss.0000982404.68581.1b
6. Pomroy, M. M., Keefe, M.S., Jiwan, N.C., Rolloque, J. S., Appell, C.R., Benjamin, C. L., Luk, H.Y., and Sekiguchi, Y. (2023) Morning versus Afternoon Body Mass in Free-Living or Controlled Euhydration, *International Journal of Exercise Science: Conference Proceedings*: Vol. 2: Iss. 15, Article 26. <https://digitalcommons.wku.edu/ijesab/vol2/iss15/26>
7. Dunlap, C.A., Jiwan, N. C., Appell, C.R., Ellis, R.T, Trevino, I.R., Lewis, C., Sterling, R., Keefe, M.S., Dunn, R.A., Ky, A.T., Rolloque, J.S., Elliot, K.B., Luk, H.Y., and Sekiguchi, Y. (2023) The Effect of Hydration on Readiness and Recovery Before and After Resistance Exercise- A Pilot Study, *International Journal of Exercise Science: Conference Proceedings*: Vol. 2: Iss. 15, Article 22. <https://digitalcommons.wku.edu/ijesab/vol2/iss15/22>
8. Lewis, C., Jiwan, N.C., Appell, C.R., Trevino, I. R., Ellis, R.T., Sterling, R., Rolloque, J.S., Ky, A.T., Keefe, M.S., Dunn, R.A., Sekiguchi, Y., and Luk, H.Y. (2023) The Effect of Dehydration and High-Volume Resistance Exercise on Intracellular and Local Muscular Fluid Shifts - A Pilot Study, *International Journal of Exercise Science: Conference Proceedings*: Vol. 2: Iss. 15, Article 52. <https://digitalcommons.wku.edu/ijesab/vol2/iss15/52>
9. Elliott, K.B., Ky, A.T., Appell, C.R., Dunn, R.A., Jiwan, N.C, Dunlap, C, Tallam, G.C., Luk, H.Y., and Sekiguchi, Y. (2023) Impact of Habitual Water Intake on Muscle Quality and Total Body Water-A Pilot Study, *International Journal of Exercise Science: Conference Proceedings*: Vol. 2: Iss. 15, Article 37. <https://digitalcommons.wku.edu/ijesab/vol2/iss15/37>

Publication

1. Simon, L, Primeaux, SD, Levitt, DE, Bourgeois, B, Johannsen, NM, Peters, A, Ahmed, J, Marshall, RH, Fairchild, AH, Ferguson, TF, and Molina, PE. (2023). An aerobic exercise intervention to improve metabolic health among people living with HIV with at-risk alcohol use: The ALIVE-Ex research study protocol. *AIDS Research and Therapy*. 20(1):35. PMID: 37296413. DOI: 10.1186/s12981-023-00530-2.
2. Selmi, O, Levitt, DE

11. **Zamagni, K, Mills, C, Williams, A, Newman, C, and Levitt, DE. (April 2023). Extracellular vesicle miRNAs as biomarkers for alcohol-related comorbidities. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
12. **Mills, C, Williams, A, Newman, C, Zamagni, K, and Levitt, D. (April 2023). Extracellular vesicle-bound miRNAs involved in insulin signaling: Influence of exercise. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
13. **Williams, A, Mills, C, Newman, C, Zamagni, K, and Levitt, D. (April 2023). Alcohol and inflammation: Influence of extracellular vesicle-bound miRNAs. Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
14. **DiLeo, M, Daniels, C, Helmberger, R, Que, L, and Levitt, D. (April 2023). Alcohol ailments: Negative effects on mitochondrial function in skeletal muscle. Texas Tech University Undergraduate Research Conference, Lubbock, Texas. *Selected for poster printing support.*

Oral

1. “Mental health in STEM” LSUHSC Postbaccalaureate Research Education Program (PREP) virtual workshop, New Orleans, LA, December 6, 2023.

Grants

- | | | |
|--|------------------|-----------------------------------|
| 1. Office of Research and Innovation Funding Requests
Texas Tech University. Role PI.
Seahorse XF Pro and Cytation C10 | (Levitt/Vellers) | 9/1/2023-8/31/2024.
\$150,172 |
| 2. 24AIREA1191995 (Vellers)
American Heart Association. Role Co-I. | | 1/1/2024-12/31/2025.
\$154,000 |
| 3. Student Research Development Award (Levitt/Newman**)
American College of Sports Medicine, Texas Chapter | | 6/1/2023-5/31/2024.
\$1,000 |
| 4. Alcohol-mediated changes in myoblast and myotube HIF-1 α protein expression: Relationship with decreased regenerative capacity. Role: PI.
R25 DA050687 (Valdez)
NIH/NIDA and NIH/NIAAA | | 4/1/2020-3/31/2025.
\$264,017 |
| 5. Enhanced Interdisciplinary Research Training Institute (eIRTI) on Hispanic Drug Abuse
College of Arts and Sciences Undergraduate Research Experience (Levitt)
Texas Tech University. | | 9/1/2022-08/31/2023.
\$2,000 |
- Alcohol-mediated decreased myoblast proliferation: Cell death or slowed cell division?. Role PI.

Lyford, Conrad

Publication

Peer-referred article

1. H. Lee, W. Oldewage-Theron, C. Lyford and S. Shine. “Perceived Barriers to Healthy Lifestyle Behaviors in Low-Income Families With Children Under the Age of Three,” *Journal of Nutrition Education and Behavior* 2023; 55 (7): 85. DOI: <https://doi.org/10.1016/j.jneb.2023.05.185>
2. Sienso, Gifty, Conrad Lyford, and Wilna Oldewage-Theron. “Using instrumental variables to establish the relationship between household production diversity and household dietary diversity in Northern Ghana,” *African Journal of Food, Agriculture, Nutrition and Development*, 2022; 22(7): 21036-21055. <https://doi.org/10.18697/ajfand.112.20255>
3. Gong, Zijan and Conrad Lyford. “Using Social Media for More Engaged Users and Enhanced Health Communication in Diabetes Care,” *American Journal of Lifestyle Medicine*, January 2022. doi:10.1177/15598276211064832

Book

1. Antwi, Kwaku, Conrad Lyford, and Patricia Solis. “Rural Household Food Insecurity and Child Malnutrition in Northern Ghana.” Chapter 4 in *Open Mapping towards Sustainable Development Goals*. November 2022. DOI: 10.1007/978-3-031-05182-1_4

Grants

1. "Improving the Nutrition and Livelihoods of Smallholder Farmers in Northern Ghana Through Climate-Smart Cowpea Production with a Focus on Female Smallholders", October 2023 to September 2025, USDA - Foreign Agricultural Service. (\$50,000; my share \$15,620)
2. "OIA 2022 Mandela Washington Fellowship", January 2022 to September 2022, Department of State, Bureau of Educational and Cultural Affairs (\$147,950, my share \$36,947)
3. "Bridging the Gap Towards Successful Vegetable Introduction: Proof in Concept for Early Head Start", April 2022 to November 2022. Texas Tech University, College of Human Sciences, (\$6,000; my share \$2,000).

Moustaid-Moussa, Naima

Publication

Peer-referred article

1. Coates PM, Allen LH, Belury M, Schalinske K, Booth SL, Stull A, Lyle B, Bailey RL, Krebs N, McBurney MI, Moustaid-Moussa N, West KP Jr, MacFarlane A. A New Chapter for the American Society for Nutrition's Journal Portfolio. *Adv Nutr.* 2022 Mar;13(2):696-697. doi: 10.1093/advances/nmab125. Epub 2023 Feb 10. PMID: 35142791; PMCID: PMC8970817.
2. Islam T, Albracht-Schulte K, Ramalingam L, Schlabritz-Lutsevich N, Park OH, Zabet-Moghaddam M, Kalupahana NS, Moustaid-Moussa N. Anti-inflammatory mechanisms of polyphenols in adipose tissue: role of gut microbiota, intestinal barrier integrity and zinc homeostasis. *J Nutr Biochem.* 2023 May;115:109242. doi: 10.1016/j.jnutbio.2022.109242. Epub 2022 Nov 26. PMID: 36442715.
3. Gordon-Larsen P, French JE, Moustaid-Moussa N, Voruganti VS, Mayer-Davis EJ, Bizon CA, Cheng Z, Stewart DA, Easterbrook JW, Shaikh SR. Synergizing Mouse and Human Studies to Understand the Heterogeneity of Obesity. *Adv Nutr.* 2021 Oct 1;12(5):2023-2034. doi: 10.1093/advances/nmab040. PMID: 33885739; PMCID: PMC8483969.
4. Zu Y, Pahlavani M, Ramalingam L, Jayarathne S, Andrade J, Scoggin S, Festuccia WT, Kalupahana NS, Moustaid-Moussa N. Temperature-Dependent Effects of Eicosapentaenoic Acid (EPA) on Browning of Subcutaneous Adipose Tissue in UCP1 Knockout Male Mice. *Int J Mol Sci.* 2023 May 13;24(10):8708. doi: 10.3390/ijms24108708. PMID: 37240054; PMCID: PMC10218247.
5. Nejat S, Menikdiwela KR, Efolge A, Scoggin S, Vandanmagsar B, Thornalley PJ, Dehbi M, Moustaid-Moussa N. Genetic Deletion of DNAJB3 Using CRISPR-Cas9, Produced Discordant Phenotypes. *Genes (Basel).* 2023 Sep 24;14(10):1857. doi: 10.3390/genes14101857. PMID: 37895206; PMCID: PMC10606339.
6. Guimarães JPT, Queiroz LAD, Menikdiwela KR, Pereira N, Ramalho T, Jancar S, Moustaid-Moussa N, Martins JO. The role of captopril in leukotriene deficient type 1 diabetic mice. *Sci Rep.* 2023 Dec 13;13(1):22105. doi: 10.1038/s41598-023-49449-8. PMID: 38092813; PMCID: PMC10719306.
7. Yavari M, Ramalingam L, Harris BN, Kahathuduwa CN, Chavira A, Biltz C, Mounce L, Maldonado KA, Scoggin S, Zu Y, Kalupahana NS, Yosofvand M, Moussa H, Moustaid-Moussa N. Eicosapentaenoic Acid Protects against Metabolic Impairments in the APP^{swe}/PS1^{dE9} Alzheimer's Disease Mouse Model. *J Nutr.* 2023 Apr;153(4):1038-1051. doi: 10.1016/j.tjnut.2023.01.030. Epub 2023 Feb 1. PMID: 36781072; PMCID: PMC10273166.
8. Yosofvand M, Khan SY, Dhakal R, Nejat A, Moustaid-Moussa N, Rahman RL, Moussa H. Automated Detection and Scoring of Tumor-Infiltrating Lymphocytes in Breast Cancer Histopathology Slides. *Cancers (Basel).* 2023 Jul 15;15(14):3635. doi: 10.3390/cancers15143635. PMID: 37509295; PMCID: PMC10377197.
9. Islam T, Scoggin S, Gong X, Zabet-Moghaddam M, Kalupahana NS, Moustaid-Moussa N. Anti-Inflammatory Mechanisms of Curcumin and Its Metabolites in White Adipose Tissue and Cultured Adipocytes. *Nutrients.* 2023 Dec 25;16(1):70. doi: 10.3390/nu16010070. PMID: 38201900; PMCID: PMC10780365.
10. Shen CL, Dufour JM, Miranda JM, Kaur G, Chung E, Ramalingam L, Moustaid-Moussa N, Cao JJ. Effect of Dietary Geranylgeraniol and Green Tea Polyphenols on Glucose Homeostasis, Bone Turnover Biomarkers, and Bone Microstructure in Obese Mice. *Int J Mol Sci.* 2023 Jan 4;24(2):979. doi: 10.3390/ijms24020979. PMID: 36674494; PMCID: PMC9866936.

Grant

1. Research and Extension Experiences for Undergraduates, Agriculture and Food Research Initiative, (NIFA, USDA), "Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program." (\$500,000, 5/2021 to 4/2026). Dufour (Collaborating Mentor), Moustaid-Moussa (Director)

Murimi, Mary

Publication

1. Moyeda-Carabaza AF, Githinji P, Nguyen B, Murimi M. The influence of frequent consumption of foods-away-from-home on the total diet quality and weight status among faculty and staff. *J Am Coll Health*. 2023 Jan;71(1):292-299. doi: 10.1080/07448481.2021.1891081. Epub 2021 Mar 24. PMID: 33759716.

Neugebauer, Volker

Publication

1. Kopruszinski, C.M., Watanabe, M., Martinez, A.L., Moreira de Souza, L.H., Dodick, D.W., Moutal, A., Neugebauer, V., Porreca, F., Navratilova, E. Kappa opioid receptor agonists produce sexually dimorphic and prolactin-dependent hyperalgesic priming, *Pain* 164:e263-e273 (11 pp), 2023. PMID: 36625833. PMC10285741.
2. Neugebauer, V., Presto, P., Yakhnitsa, V., Antenucci, N., Mendoza, B., Ji, G. Pain-related cortico-limbic plasticity and opioid signaling. *Neuropharmacology* 231:109510 (22 pp), 2023. PMID: 36944393. PMC10585936.
3. Nia, S.S., Hossain, M.A., Ji, G., Jonnalagadda, S.K., Obeng, S., Rahman, Md.A., Sifat, A.E., Nozohouri, S., Blackwell, C., Patel, D., Thompson, J., Runyon, S., Hiranita, T., McCurdy, C.R., McMahan, L., Abbruscato, T.J., Trippier, P.C., Neugebauer, V., German, N.A. Studies on diketopiperazine and dipeptide analogs as opioid receptor ligands. *Eur. J. Med. Chem.* 254: 115309 (22 pp), 2023. PMID: 37054561. NIHMSID 1935673.
4. Presto, P., Ji, G., Ponomareva, O., Ponomarev, I., Neugebauer, V. Hmgb1 silencing in the amygdala inhibits pain-related behaviors in a rat model of neuropathic pain. *Int. J. Mol. Sci.* 24: 11944 (28 pp), 2023. PMID: 37569320. PMC10418916.
5. Singer, J., Rerick, P., Elliott, L., Fadalla, C., McLean, E., Molinar-Lopez, V., Neugebauer, V. Investigating the relationship between marital status and ethnicity on neurocognitive functioning in a rural older population: A Project Frontier study. *J. Gerontol. B Psychol. Sci. Soc. Sci. gbad126* (9 pp), 2023. PMID: 37632740.
6. Shen, C.-L., Newman, J.W., Elmassry, M.M., Borkowski, K., Chyu, M.-C., Kahathuduwa, C., Neugebauer, V., Watkins, B.A. Tai Chi exercise reduces circulating levels of inflammatory oxylipins in postmenopausal women with knee osteoarthritis: results from a pilot study. *Front. Med.* 10: 1210170 (13 pp) 2023. PMID: 37654656. PMC10466388.
7. Singh, S.P., Guindon, J., Mody, P.H., Ashworth, G., Kopel, J., Chilakapati, S., Adogwa, O., Neugebauer, V., Burton, M.D. Pain and Aging: A unique challenge in neuroinflammation and behavior. *Mol. Pain.* 19: 17448069231203090 (18 pp), 2023. PMID: 37684099. PMC10552461.
8. Navratilova, E., Qu, C., Ji, G., Neugebauer, V., Guerrero, M., Rosen, H., Roberts, E., Porreca, F. Opposing effects on descending control of nociception by mu and kappa opioid receptors in the anterior cingulate cortex. *Anesthesiology*, 2023. PMID: 37725756.
9. Fadalla, C., Singer, J., Ashworth, G., Boles, A., Burugu, D., Molinar-Lopez, V., Neugebauer, V. Longstanding Rural-Urban Disparities Exacerbated by COVID-19: The Experiences of Older Residents in West Texas and Lesson Learned. *Epidemiol. Int. J.* 7: 000265 (13 pp), 2023.
10. Santos, J.M., Wang, R., Bhakta, V., Driver, Z., Yakhnitsa, V., Kiritoshi, T., Ji, G., Neugebauer, V., Shen, L. Turmeric bioactive compounds alleviate spinal nerve ligation-induced neuropathic pain via suppressing glial activation and improving mitochondrial function in spinal cord and amygdala. *Nutrients* 15 4403 (15 pp), 2023. PMID: 37892476. PMC10610406.

Presentation

Oral

1. "Pain modulation and emotion". Slovenian Neuroscience Association (SiNAPSA) Neuroscience Conference, Ljubljana, Slovenia.
2. "Amygdala neuroplasticity and neuroimmune signaling in neuropathic pain". National University of Ireland, Galway, Ireland.
3. "Amygdala neuroplasticity in pain". Annual GCC Translational Pain Research Conference, Houston, TX.
4. "Amygdala neuroplasticity in pain". Medical College of Georgia, Augusta University, Augusta, GA.
5. "Neuroplasticity changes in the amygdala in the transition to chronic pain". University of Arizona 2023 Pain Symposium, Tucson, AZ.

Presentation

Poster

1. *Elliott, L., Singer, J., Fadalla, C., McLean, E., Molinar-Lopez, V., Neugebauer, V., The Role of Age and Education on Neurocognitive Functioning in Hispanic and Non-Hispanic Individuals in Rural West Texas, TARCC Scientific Symposium, #36, 2023.
2. *Fadalla, C., Singer, J., Elliot, L., McLean, E., Molinar-Lopez, V., Neugebauer, V. A Public Health Crisis in Rural West Texas: Neurocognitive Disparities between Hispanic and Non-Hispanic Communities Moderated by Depression. TARCC Scientific Symposium, #53, 2023.
3. Mendóza, R., Santos, J.M., Driver, Z., Bhakta, V., Neugebauer, V., Shen, C.-L. Gingerol-enriched ginger mitigates anxiety-like behavior of neuropathic rats by attenuation of neuroinflammation via the gut-brain axis. 35th Annual Student Research Week, p. 107-108, 2023.
4. Mendoza, B., Presto, P., Ponomarev, I., Neugebauer, V. Hmgb1 silencing in the amygdala inhibits pain-related behaviors in a sex-specific manner in a rat neuropathic pain model. 35th Annual Student Research Week, 2023.
5. Antenucci, N., Ji, G., Kiritoshi, T., Navratilova, E., Porreca, F., Neugebauer, V. Chemogenetic manipulation of amygdala kappa opioid receptor neurons modulates neuropathic pain behaviors. 35th Annual Student Research Week, p. 147, 2023.
6. Presto, P., Ji, G., Ponomarev, I., Neugebauer, V. Transcriptomic profiling of the central and basolateral amygdala in a rat model of chronic neuropathic pain. 35th Annual Student Research Week, p. 60-61, 2023.
7. Pourghaed, M., Velandia, F.R., Sarangi, A., Culberson, J., Ashworth, G., Khan, H., Boles, A., Philip, A.-A., Neugebauer, V., Lawrence, J.J. Associations between Vitamin D levels and diabetes in Elderly Hispanics of Rural Western Texas. 35th Annual Student Research Week, p. 50, 2023.
8. Driver, Z., Santos, J., Deshmukh, H., Presto, P., Bhakta, V., Yakhnitsa, V., Kiritoshi, T., Ji, G., Neugebauer, V., Shen, C.-L. Attenuation of mechanical hypersensitivity in a rat spinal nerve ligation model (SNL) via Fecal Matter Transplantation (FMT). TTU Undergraduate Research Conference, A232, 2023.
9. John, J., Antenucci, N., Neugebauer, V. Chemogenetic modulation of Glia cells in the amygdala in preclinical pain conditions. TTU Undergraduate Research Conference, A130, 2023.
10. Presto, P., Ji, G., Ponomarova, O., Ponomarev, I., Neugebauer, V. Characterizing the transcriptomic profile of the central and basolateral amygdala in a rat model of chronic neuropathic pain. 7th Annual CTNT Symposium, p32-33, 2023.
11. Antenucci, N., Ji, G., Kiritoshi, T., Navratilova, E., Porreca, F., Neugebauer, V. Chemogenetic manipulation of amygdala kappa opioid receptor neurons modulates neuropathic pain behaviors. 7th Annual CTNT Symposium, p35, 2023.
12. Mazzitelli, M., Conn, P.J., Neugebauer, V. Amygdala mGluR2 and mGluR3 modulate different aspects of arthritis pain-related behaviors. 7th Annual CTNT Symposium, p38-39, 2023.
13. McLean, E., Singer, J., Rerick, P., Elliott, L., Fadalla, C., Jump, A., Molinar-Lopez, V., Neugebauer, V. Understanding the Interplay between Marital Status and Ethnicity on Neurocognitive Functioning in Rural-Dwelling Older Adults. 7th Annual CTNT Symposium, p44-45, 2023.
14. Schneider, S., Singer, J., Fadalla, C., Elliott, L., Rerick, P., McLean, E., Tello, M., Molinar-Lopez, V., Neugebauer, V. Potential Neurocognitive Disparities between Foreign and Native-Born Rural Hispanic Communities: A Project Frontier Study. 7th Annual CTNT Symposium, p45-46, 2023.

15. Antwi-Adjei, P., Pourghaed, M., Sarangi, A., Ramierez Velandia, F., Boles, A., Neugebauer, V., Lawrence, J.J. Associations between Vitamin D Deficiency/Insufficiency and Diabetes in Older Rural West Texans: A Project FRONTIER Study. 7th Annual CTNT Symposium, p48, 2023.
16. Elliott, L., Singer, J., Rerick, P., Fadalla, C., McLean, E., Tello, M., Molinar-Lopez, V., Neugebauer, V. Neurocognitive Functioning in Hispanic and Non-Hispanic Individuals in Rural West Texas: Understanding the Influence of Age and Education. 7th Annual CTNT Symposium, p51, 2023.
17. Fadalla C., Singer, J., Elliott, L., Rerick, P., McLean, E., Tello, M., Molinar-Lopez, V., Neugebauer, V. Examining the Impact of Depression on Neurocognitive Disparities in Hispanic and Non-Hispanic Rural Aging Adults: A Project Frontier Study. 7th Annual CTNT Symposium, p54, 2023.
18. John, J., Antenucci, N., Neugebauer, V. Chemogenetic modulation of glia cells in the amygdala in preclinical pain conditions. TTU Obesity Research Institute 8th Annual Meeting, #3, 2023.
19. *Antenucci, N., Notartomaso, S., Mazzitelli, M., Rovira, X., Boccella, S., Ricciardi, F., Liberatore, F., Imbriglio, T., Cannella, M., Zussy, C., Luongo, L., Maione, S., Goudet, C., Battaglia, G., Llebaria, A., Nicoletti, F., Neugebauer, V. Opto-pharmacology: brain region specific modulation of mGlu5 receptors in neuropathic pain. Federation of European Neuroscience Societies (FENS) Regional Meeting, Extra 2, 2023.
20. *Presto, P., Ji, G., Ponomareva, O., Ponomarev, I., Neugebauer, V. Subacute Inhibition of Hmgb1 in the Amygdala Reduces Pain-Related Behaviors in a Rat Model of Chronic Neuropathic Pain. 12th Annual GCC Translational Pain Conference, 23, 2023.
21. *Shen, C.-L., Santos, J.M., Elmassry, M.M., Bhakta, V., Driver, Z., Wang, R., Ji, G., Yakhnitsa, V., Kiritoshi, T., Lovett, J., Hamood, A.N., Sang, S., Neugebauer, V. Ginger supplementation mitigates mechanosensitivity in SNL-treated rats via improving gut microbiome composition and reversing molecular signature of amygdala: microbiome-brain-axis. Nutrition, 1487076, 2023.
22. *Santos, J.M., Driver, Z., Bhakta, V., Presto, P., Wang, R., Deshmukh, H., Kiritoshi, T., Yakhnitsa, V., Antenucci, N., Ji, G., Neugebauer, V., Shen, C.-L. Ginger differentially mitigates neuroinflammation and improves mitochondrial function in male and female rats with neuropathic pain: gut-brain axis. Nutrition, 1487261, 2023.
23. *Shen, C.-L., Newman, J.W., Elmassry, M.M., Borkowski, K., Chyu, M.-C., Kahathuduwa, C., Neugebauer, V., Watkins, B.A. Dietary PUFA interactions with exercise to alter neuroinflammation. Nutrition, 1487240, 2023.
24. *Mariacristina, M., Neugebauer, V., Differential modulation of mGluR2 and mGluR3 on CeA-CRF neuronal functions in an arthritis pain model. Amygdala Function in Emotion, Cognition and Disease Gordon Research Conference, #13, 2023.
25. *Yavari, M., Khedmatgozar, H., Ramalingam, L., Harris, B., Kahathuduwa, C., Zu, Y., Castillo, M., Gunaratne, P., Neugebauer, V., Moustaid-Moussa, N. Transcriptomic analyses of central effects of eicosapentaenoic acid in a diet-induced obese amyloidogenic mouse model of Alzheimer's disease. 15th International Society for the Study of Fatty Acids and Lipids, Nantes, France, 274, 2023.
26. *Shen, C.-L., Santos, J.M., Shi, S., Chen, F., Driver, Z., Stephens, E., Watson, C., Contreras, J., Lovett, J., Neugebauer, V. Ginger supplementation mitigates spontaneous pain in neuropathic male rats via gut-brain-interaction. IASP NeuPSIG, TH69, 2023.
27. *Presto, P., Ji, G., Ponomareva, O., Ponomarev, I., Neugebauer, V. Transcriptomic profile of the rat central and basolateral amygdala in a chronic neuropathic pain model. IASP NeuPSIG, FR71, 2023.
28. *Decourt, B., Singer, J., Molinar-Lopez, V., Yin, L., Neugebauer, V. Project FRONTIER: a Cohort to Study Aging in Rural West Texas. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, San Antonio, TX, 2023.
29. *Elliott, L., Singer, J., Rerick, P., Fadalla, C., McLean, E., Jump, A., Molinar-Lopez, V., Decourt, B., Neugebauer, V. Investigating the Relationship Between Marital Status and Ethnicity on Neurocognitive Functioning in a Rural Older Population: A Project Frontier Study. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, San Antonio, TX, 2023.
30. Liu, B., Presto, P., Mazzitelli, M., Ponomarev, I., Neugebauer, V. Effects of innate immune activation in the rat right and left central amygdala on pain-like behaviors. Transformative Undergraduate Experiences Symposium, TTU, 4a7, 2023.
31. John, J., Antenucci, N., Neugebauer, V. Chemogenetic modulation of glia cells in the amygdala in preclinical pain conditions. Transformative Undergraduate Experiences Symposium, TTU, 5a7, 2023.

32. *Elliott, L., Singer, J., Rerick, P., Fadalla, C., McLean, E., Jump, A., Molinar-Lopez, V., Neugebauer, V. Effects of marital status and ethnicity on neurocognitive functioning in a rural older population. GSA Annual Scientific Meeting, Abstract ID: 1496465, 2023
33. *Tello, M., Singer J., Fadalla, C., Rerick, P.R, Livingston, T.N., Neugebauer, V. Neurocognitive Disparities between Foreign-and Native-Born Rural Hispanic Communities. 43rd Australian Association for Cognitive and Behaviour Therapy, Sydney, NSW, AU, 2023.
34. *Mazzitelli, M., Neugebauer, V. Effects of astrocyte inhibition on amygdala neuronal functions in a model of neuropathic pain. Soc. Neurosci. Abstr. PSTR081.01, 2023.
35. *Hurtado, Z.J., Presto, P., Kiritoshi, T., Ji, G., Neugebauer, V. Bdnf in the amygdala modulates sensory and affective neuropathic pain behaviors. Soc. Neurosci. Abstr. PSTR081.02, 2023.
36. *Shen, C.-L., Santos, J., Elmassry, M.M., Presto, P., Yakhnitsa, V., Antenucci, N., Kiritoshi, T., Ji, G., Neugebauer, V. Crosstalk between intestinal barrier, gut microbiota and amygdala neuropathology genes after ginger supplementation in female rats with neuropathic pain. Soc. Neurosci. Abstr. PSTR081.03, 2023.
37. *Antenucci, N., Yakhnitsa, V., Navratilova, E., Porreca, F., Neugebauer, V. Sex differences in CGRP receptor-mediated synaptic plasticity in the amygdala in a mouse migraine pain model. Soc. Neurosci. Abstr. PSTR081.04, 2023.
38. *Neugebauer, V., Notartomaso, S., Liberatore, F., Antenucci, N., Mazzitelli, M., Battaglia, G., Llebaria, A., Nicoletti, F. Region-specific photopharmacological modulation of mGlu5 receptor in a model of neuropathic pain. Soc. Neurosci. Abstr. PSTR081.05, 2023.
39. *Ji, G., Navratilova, E., Porreca, F., Neugebauer, V. Opposing effects of mu and kappa opioid receptors on amygdala output neurons in chronic neuropathic pain. Soc. Neurosci. Abstr. PSTR081.06, 2023.
40. *Yakhnitsa, V., Antenucci, N., Mendoza, B., Navratilova, E., Porreca, F., Neugebauer, V. Kappa opioid receptor signaling in hypothalamus promotes stress-induced functional pain. Soc. Neurosci. Abstr. PSTR081.07, 2023.
41. *Kiritoshi, T., Neugebauer, V. Pain-related synaptic and excitability changes in PB- and PAG-projecting amygdala CRF neurons in a neuropathic pain model. Soc. Neurosci. Abstr. PSTR081.08, 2023.
42. *Presto, P.D., McManus, M., Ponomarev, I., Neugebauer, V. Cell type-specific transcriptomic profile of the central amygdala in a rat model of chronic neuropathic pain. Soc. Neurosci. Abstr. PSTR081.09, 2023.
43. *Ponomarev, I., Presto, P., Mazzitelli, M., Liu, B., Neugebauer, V. Effects of innate immune activation in the rat right and left central amygdala on pain-like behaviors. Soc. Neurosci. Abstr. PSTR081.10, 2023.
44. *Manczak, M., Yin, X., Burugu, D., Lawrence, J., Neugebauer, V. The role of mitochondria and autophagy/mitophagy system in Alzheimer's disease progression in APP23 and Tau-P301L transgenic mouse models. Soc. Neurosci. Abstr. PSTR528.05, 2023.
45. *Narasimhan, K. S., Kiritoshi, T., Ji, G., Neugebauer, V., Dravid, S. Impaired GluD1-Cbln1 trans-synaptic signaling in the central amygdala contributes to autophagy deficits and chronic pain. Soc. Neurosci. Abstr. PSTR410.15, 2023.

Grant

Sabinsa Corporation, NJ
 "Curcumin and Retinal Amyloid-beta Pilot Study"
 PI: Leslie Shen
 Co-I, Volker Neugebauer
 Total costs: \$94,991

04/01/23-03/31/24

Garrison Family Foundation
 "Examining Effects of Respite and Individual Clinical Interventions on Biopsychosocial Outcomes in Informal Caregivers of Dementia Patients"
 PI, Volker Neugebauer
 MPI, Jonathan Singer (TTU)
 Total costs: \$50,000

02/01/23 – 01/31/24

TTUHSC SOM, CTNT, GIA Seed Fund Program

01/01/23 – 12/31/23

“Mental Health Telemedicine for Caregivers of People with Alzheimer’s’ Disease and Related Dementias in Rural West Texas”

PI (Contact), Volker Neugebauer

MPI, Jonathan Singer (TTU)

Total costs: \$30,000

Davis Foundation

11/10/22 – 10/31/24 (NCE)

“Ginger extract in anxio-depressive disorders: gut-brain-axis”

PI (Contact), Chwan-Li (Leslie) Shen (TTUHSC)

MPI, Volker Neugebauer

Total costs: \$10,000

R01 NS129552 – NIH/NINDS

09/20/22 – 07/31/27

“Brain Circuits of Migraine Pain”

PI (Contact), Frank Porreca (University of Arizona), MPI, Edita Navratilova (University of Arizona)

MPI, Volker Neugebauer

Total costs: \$3,118,625 (TTUHSC subcontract \$1,235,720)

R01 NS038261 - NIH/NINDS

12/15/21 - 11/30/26

“Amygdala Pain Mechanisms”

PI, Volker Neugebauer

MPI, Igor Ponomarev

Total costs: \$2,757,940

R01 NS120395 – NIH/NINDS Impact score: 10, Percentile: 1.0

08/01/21 – 07/31/26

“A prolactin-mediated neuroendocrine link between stress-induced latent sensitization and female-selective pain”

PI (Contact), Frank Porreca (University of Arizona), MPI, Edita Navratilova (University of Arizona)

MPI, Volker Neugebauer

Total costs: \$2,297,350 (TTUHSC subcontract \$ 921,815)

2021-67017-34026 - USDA/NIFA

“Ginger root extract for neuropathic pain”

01/01/21 - 12/31/23

PI (Contact), Chwan-Li (Leslie) Shen (TTUHSC)

MPI, Volker Neugebauer

Total costs: \$500,000

R01 NS118731 – NIH/NINDS

08/01/20 – 07/31/25

“Trans-Synaptic Signaling Complex in Amygdala Pain Mechanisms”

PI (Contact), Shashank Dravid (Creighton University)

MPI, Volker Neugebauer

Total costs: \$2,674,615 (TTUHSC Subcontract \$733,450)

R01 NS109255 – NIH/NINDS

08/15/19 – 06/30/24

“Pronociceptive and Antinociceptive Opioid Mechanisms in the Central Nucleus of the Amygdala”

PI (Contact), Edita Navratilova (University of Arizona), PI, Guangchen Ji

Co-I, Volker Neugebauer

Total costs: \$2,544,148 (TTUHSC subcontract \$ 1,253,415)

R01 AA027096 – NIH/NIAAA

07/01/19 - 06/30/24 (NCE)

“The Neuroimmune Model of Excessive Alcohol Consumption: Transition to Alcohol Use Disorder”

PI, Igor Ponomarev (TTUHSC)

Co-I, Volker Neugebauer

Total costs: \$2,868,750 (original start date, 09/10/2018; transferred to TTUHSC on 07/01/19)

R01 NS106902 – NIH/NINDS

04/01/18 - 03/31/24

“Stress-Induced Descending Facilitation from Amygdala Kappa Opioid Receptors in Functional Pain”

PI (Contact), Frank Porreca (University of Arizona)

MPI, Volker Neugebauer

Total costs: \$ 2,740,180 (TTUHSC subcontract \$ 1,295,245)

Diversity, Equity and Inclusion (DEI) research grant

09/01/22 – 08/31/23

Office of Diversity, Equity and Inclusion, the Office of the Provost, and the Office of Research and Innovation

PI, Jonathan Singer, TTU

MPI, Volker Neugebauer

Total costs: \$14,500

Oldewage, Wilna

Publication

Peer-referred article

1. LEE H, OLDEWAGE-THERON W, LYFORD C & SHINE S. 2023. Nutrition and health challenges among low-income families of young children in the post COVID-19 era: a qualitative study. *Nutrition Research and Practice*, 17(6): 1185-1200. <https://e-nrp.org/pdf/10.4162/nrp.2023.17.6.1185>
2. NAJAM W, WALSH C & OLDEWAGE-THERON W. 2023. Nutrition knowledge, attitudes, beliefs and practices: a comparison of urban and rural adults in the Free State province of South Africa. *South African Journal of Clinical Nutrition*, 36(4): 154-161. <https://www.tandfonline.com/doi/full/10.1080/16070658.2023.2175456>
3. IBIYEMI TE & OLDEWAGE-THERON WH. 2023. Snack consumption frequency of children and adults in the Vaal region of Gauteng, South Africa. *Health SA Gesondheid*, 28(0): a2181. <https://doi.org/10.4102/hsag.v28i0.2181>; Snack consumption frequency of children and adults in the Vaal region of Gauteng, South Africa | Ibiyemi | *Health SA Gesondheid*
4. LEE H, MOYO GT, THEOPHILUS RJ & OLDEWAGE-THERON W. 2023. Association of dietary changes with risk factors of type 2 diabetes among older adults in Sharpeville, South Africa, from 2004-2014. *Nutrients*, 15(22): 4751. <https://doi.org/10.3390/nu15224751>
5. MKHIZE X, NAPIER C, OLDEWAGE-THERON W & DUFFY K. 2023. Educating urban famers in KwaZulu-Natal, South Africa on new innovative ways of reintroducing cowpea (Imbumba) and Jugo beans (Izindlubo) to remodel their production and consumption patterns. *INDILINGA: African Journal of Indigenous Knowledge Systems*, 22(1): 98-108.
6. MUKHERJEE U, DAWSON JA, CHALWE JM & OLDEWAGE-THERON W. 2023. Effectiveness of a short-term soy nutrition education intervention on nutrition knowledge and self-efficacy scores of rural elderly Zambian women. *Nutrition and Healthy Aging*, 8(1): 97-108. DOI 10.3233/NHA-210138
7. CHALWE J, GROBLER C & OLDEWAGE-THERON W. 2023. Development of a Structural Equation Model to Examine the Relationships between Genetic Polymorphisms and Cardiovascular Risk Factors. *Nutrients*, 15 (11): 2470 (12 pages). <https://doi.org/10.3390.nu15112470>
8. MOYO G, EGAL AA & OLDEWAGE-THERON, W. 2022. Exploring the prevalence of multiple forms of malnutrition in children 6-18 years living in the Eastern Cape, South Africa. *South African Journal of Clinical Nutrition*, 31(2): 51-55. <https://doi.org/10.1080.16070658.2022.2061109>
9. LEE H, OLDEWAGE-THERON W & DAWSON JA. 2023. Effects of a Theory-Based, Multicomponent eHealth Intervention for Obesity Prevention in Young Children from Low-Income Families: A Pilot Randomized Controlled Study. *Nutrients*, 15: 2296 (14 pages). <https://doi.org/10.3390/nu15102296>
10. NAJAM W, WALSH C & OLDEWAGE-THERON W. 2023. Nutrition knowledge, attitudes, beliefs and practices: a comparison of urban and rural adults in the Free State province of South Africa. *South African Journal of Clinical Nutrition*, 8 pages. <https://www.tandfonline.com/doi/full/10.1080/16070658.2023.2175456>

11. SAHA S, MURIMI M & OLDEWAGE-THERON W. 2023. Effectiveness of a behavior- and age-specific nutrition education intervention to promote nutrition knowledge and preference for fruits and vegetables among elementary school children. *American Journal of Health Education*.
12. <https://www.tandfonline.com/eprint/2H568WCEMN4H68RZGUHA/full?target=10.1080/19325037.2023.2186982>
13. NAJAM W, IBIYEMI T, SAJIA S, NAJAM R, GICHOHI-WAINAINA W & OLDEWAGE-THERON W. 2023. Social determinants of rural household food insecurity under the Taliban regime. *Nutrients*, 15(7): 1681.
14. *Nutrients* | Free Full-Text | Social Determinants of Rural Household Food Insecurity under the Taliban Regime (mdpi.com)

Presentation

Poster

1. OLDEWAGE-THERON W, THOMAS-JACKSON G, MOYO G & GROVE H. 2023. Breastfeeding practices among lactating women in Gauteng, South Africa: An exploratory study. *Journal of the Academy of Nutrition and Dietetics*, 123(9)(Suppl1): A58.
2. IBIYEMI T, NAJAM W, SOSA A, MAKERECHA S, HUTTON T, BRYANT S, OLDEWAGE-THERON W. 2023. Objective and subjective measurements of freshman and sophomore's fruit and vegetable intake. *Journal of the Academy of Nutrition and Dietetics*, 123(9)(Suppl1): A70.
3. Nutrition Congress 16-18 April 2023 in Somerset-West, South Africa: T IBIYEMI & W OLDEWAGE-THERON. Use of hedonic and Just-About-Right consumer acceptability scales in the development of nutritious soy-based snacks (poster).
4. Academy of Nutrition and Dietetics Food & Nutrition Conference & Expo (FNCE) 7-10 October 2023, Denver, CO. OLDEWAGE-THERON W, THOMAS-JACKSON G, MOYO G & GROVE H. 2023. Breastfeeding practices among lactating women in Gauteng, South Africa: An exploratory study (poster).
5. IBIYEMI T, NAJAM W, SOSA A, MAKERECHA S, HUTTON T, BRYANT S, OLDEWAGE-THERON W. 2023. Objective and subjective measurements of freshman and sophomore's fruit and vegetable intake (poster). Society of Nutrition Education and Behavior Conference July 2023, Washington DC
6. LEE H, OLDEWAGE-THERON W, LYFORD C & SHINE S. (2023). Perceived Barriers to Healthy Lifestyle Behaviors in Low-Income Families with Children Under the Age of Three (poster).
7. Society for Research in Child Development Conference, 2023. LI S, SONG S, CAYLA J, SHINE S, OLDEWAGE-THERON W, LYFORD C & OH W. Parental self-efficacy in nutrition and eating behavior among economically disadvantaged children during the COVID-19 pandemic (poster)

Oral

1. 50th Annual National Head Start Conference 8-11 May 2023, Phoenix AZ. SHINE S, LYFORD C & OLDEWAGE-THERON W. Veggies Win! Adding Vegetables to Meals for Families at Early Head Start (oral presentation).

Palmer, Ty

Publication

Peer-referred article

1. Farrow, A. C., Blinch, J., Harry, J. R., Palmer, T. B. (2023). Short-term effects of static stretching on hamstring passive stiffness in young and older women. *Journal of Musculoskeletal and Neuronal Interactions*, 23(3), 290-298.
2. Maurya, P. S., Sisneros, K. P., Johnson, E. B., Palmer, T. B. (2023). Reliability of handgrip strength measurements and their relationship with muscle power. *Journal of Sports Medicine and Physical Fitness*, 63(7), 805-811.
3. Sisneros, K. P., Maurya, P. S., Johnson, E. B., Ford, B. R., Palmer, T. B. (2023). Age-related differences in vertical jump height and handgrip strength measurements. *Acta of Bioengineering and Biomechanics*, 25(1), 19-26.
4. Palmer, T. B., Maurya, P. S., Sisneros, K. P., Palmer, B. M. (2023). Can handgrip strength measurements predict postural balance performance in older women? *Journal of Musculoskeletal and Neuronal Interactions*, 23(1), 36-42.

Presentation

Poster

1. Palmer, T. B., Maurya, P. S., Sisneros, K. P., Palmer, B. M., NSCA Annual Conference, NSCA, Las Vegas, NV, "Relationships between handgrip strength measurements and postural balance performance in older women," National, peer-reviewed/refereed, published in proceedings, published elsewhere. (July 2023).
2. Sisneros, K. P., Maurya, P. S., Johnson, E. B., Palmer, T. B., Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Age-related differences in handgrip strength characteristics and vertical jump performance," Regional, peer-reviewed/refereed, published in proceedings. (February 2023).
3. Maurya, P. S., Sisneros, K. P., Johnson, E. B., Palmer, T. B., Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Handgrip peak force and rate of force development measurements: are they reliable and do they correlate with vertical jump power?," Regional, peer-reviewed/refereed, published in proceedings. (February 2023).
4. Johnson, E. B., Maurya, P. S., Sisneros, K. P., Palmer, T. B., Texas ACSM Regional Meeting, Texas ACSM, Waco, TX, "Reliability and relationships between supine medicine ball throw kinetics and vertical jump height," Regional, peer-reviewed/refereed, published in proceedings. (February 2023).

Grant

Year	Title of Current Research or Grant	Granting Agency	Amount \$	Chief Investigators & Faculty Members in order	Percent Contribution
2023	Better Estimates of Reaction Time With Force-Based Measurements	Texas Tech Offices of the President, Provost, and Vice President for Research & Innovation	\$1,500	Blinch, J. (Lead Principal Investigator), Harry, J. R. (Principal Investigator), Palmer, T. B.	25%
2022	Relationship between handgrip strength and postural balance in older adults	Texas Society for Hand Therapy	\$500	Palmer, T. B. (Principal Investigator)	100%

Park, Oak Hee

Publication

1. Islam, T.*, Albracht-Schulte, K., Ramalingam, L., Schlabritz-Lutsevich, N., Park, O., Zabet-Moghaddam, M., Kalupahana, N.S., Moustaid-Moussa, N. (2023). Anti-inflammatory mechanisms of polyphenols in adipose tissue: role of gut microbiota, intestinal barrier integrity and zinc homeostasis. *Journal of Nutritional Biochemistry*, 115, Volume 115, 109242, <https://doi.org/10.1016/j.jnutbio.2022.109242>.

Presentation

Poster

1. Wang, H.*, Akra, E.*, Thompson, L., Moustaid-Moussa, N. & Park, O. (2023). U.S. Consumers' Perspectives on Purchasing and Consuming Sorghum and Expected Behavior Using Theory of Planned Behavior. *Current Developments in Nutrition*, Volume 7, 100832.
2. Wang, H.*, Moustaid-Moussa, N., Oldewage-Theron, W., Thompson, L., Albracht-Schulte, K., Lee, J., & Park, O. (2023). Social Cognitive Theory-based Nutrition Intervention to Improve Healthy Eating and Active Lifestyle among Rural Texas High School Students: A Pilot Study. *Current Developments in Nutrition*, Volume 7, 101302.
3. Sosa-Holwerda, A.*, Maki, K.*, Thompson, L., Moustaid-Moussa, N., McMurrey, D., & Park, O. (2023). Acceptance, Eating and Purchase Intentions of Sorghum-based Menus Among U.S. College Students. *Current Developments in Nutrition*, Volume 7, 100830.

Oral

1. Park, O. (2023). School-based Nutrition Intervention for Adolescent Obesity Prevention in West Texas. 8th Annual Meeting Short Talk Session, Obesity Research Institute, TTUHSC, Lubbock, Texas.
2. Rogers, K.*, Akra, E.*, Arciniega, M.*, & Park, O. (2023). Food Insecurity and Nutrition Education (FINE) Project: Promoting Healthy and Active Lifestyles Among Food-insecure College Students. 2023 Texas Tech University Undergraduate Research Conference, Lubbock, Texas. **Outstanding Presenter (1st Place in Education Impact Category)**
3. Maki, K.*, Arciniega, M.*, Sosa-Holwerda, A.*, Thompson, L., Moustaid-Moussa, N., & Park, O. (2023). Acceptance and Intention to Consume Sorghum Menus among College Students. 2023 Texas Tech University Undergraduate Research Conference, Lubbock, Texas.
4. Arciniega, M.* & Park, O. (2023). Is Disordered Eating Behavior an Issue College Students Face? Restrictive and Compulsive Eating among Food Insecure College Students in a Southern University. 2023 McNair Scholars Conference, Baylor University, Waco, Texas.
5. Wang, H.*, Moustaid-Moussa, N., Oldewage-Theron, W., Thompson, L., Albracht-Schulte, K., Lee, J., & Park, O. (2023). Social Cognitive Theory-based Nutrition Intervention to Improve Healthy Eating and Active Lifestyle among Rural Texas High School Students: A Pilot Study. 2023 TTU Graduate School Poster Competition, TTU, Lubbock, Texas.
6. Sosa-Holwerda, A.*, Maki, K.*, Thompson, L., Moustaid-Moussa, N., McMurrey, D., & Park, O. (2023). Acceptance, Eating and Purchase Intentions of Sorghum-based Menus Among U.S. College Students. 2023 TTU Graduate School Poster Competition, TTU, Lubbock, Texas.

Grant

1. TTU Center for Transformative Undergraduate Experiences (TrUE, 2022-2023): Food Insecurity: Risk factors, Characteristics, and Lifestyle Changes among University Students during the COVID-19 Pandemic: PI: 100% of \$4,000.
2. United Sorghum Checkoff Program (09/2021- 08/2024): Sorghum: Opportunities as a Sustainable Crop for Human Consumption in the U.S.: PI: 60% of \$150,000.

Punyanunt, Narissra

Publication

Peer-referred article

1. Brammer, S., Martinez, R., Carter, N. (2023). Analyzing College Students' Perceptions Regarding Satisfaction, Gratification, and Addiction to TikTok. . *Studies in Media and Communica*, 11(1), 77-86.
2. Carter, N., Martinez, R., Plascensia, K. (2023). Analyzing Communication Motives, Relationship Maintenance, and Satisfaction in Father-Daughter Relationships.). *Communicating Fatherhood: New Directions in Theory, Research, and Education*.. New York: Peter Lang.
3. Dibble, J., Carter, N., Drouin, M. (2023). Communicating with back burners among college students according to relationship status and love styles.. *Communication Research Reports*, 40(1), 30-39.
4. Brammer, S., Martinez, R., Carter, N. Connecting Communication and Learning Through Investigations of Educational Assessments.
5. Carter, N. (2023). *Creating Relationship Communication Portfolios as a Service-Learning Project*. OER Commons.
6. De La Cruz, J.J., Carter, N., Wrench, J. S. (2023). Dating App Communication: Personal Characteristics, Motives and Behavioural Intent.. *Media Watch*, 14(2), 131-154.
7. Henderson, J., Hess, M., Shuang, X. I., Carter, N. (2023). Deception at a Distance: Long-Distance Deception and Romantic Relationships.. *American Journal of Humanities and Social Sciences Research (AJHSSR)*, 7(2), 178-184.
8. Arias, V. S., Carter, N. (2023). Exploring Relationship Expectations and Communication Motives in the use of the Dating App Tinder.. *Human Technology*, 19(1), 307-324.
9. Carter, N., Martinez, R. (2023). Exploring the connections between graduate teaching assistant's deployment of power in public speaking courses. *College Student Journal*, 57(1), 53-63.
10. Brammer, S., Martinez, R., Carter, N. (2023). *In Your Eyes: Communicating In Close Relationships*.
11. Carter, N. (2023). Lessons for the Heart. *OER Commons*.

12. Marks, J., Rice, L., Carter, N., Snidman, H. (2023). Motivations for Instagram Use: Personal Validation and Enhancing Close Relationships.. *Online Journal of Communication and Media Technologies*, 13(2), e202315.
13. Charoensap-Kelly, P., Carter, N. (2023). Renewing Pedagogical Research and Practices: Helping International Students Succeed Post-COVID-19.. *International Journal of Communication*, 17(1), 602-616.
14. Carter, N., De La Cruz, J.J., Martinez, R. (2023). *Using the Game Minecraft to Teach Communication Competence*. OER Commons.
15. Carter, N., Arias, V. S. (2023). *Using Tinder to Understand Interpersonal Communication*. OER Commons.
16. Martinez, R., Brammer, S., Carter, N. (2023). Bridging the Gap: Making Communication Research More Accessible Through Translation and Application.
17. Brammer, S., Martinez, R., Carter, N. (2023). "People on TikTok aren't afraid to share stories": Examining College Students' Perceptions Regarding Self-Disclosure Behaviors on TikTok.

Presentation

Poster

1. Brammer, S., Martinez, R., Carter, N., Eastern Communication Association, "It hasn't necessarily impacted my life, but...": College Students' Perceptions of the Impact of TikTok Use on Their Lives. It hasn't necessarily impacted my life, but...": College Students' Perceptions of the Impact of TikTok Use on Their Lives," peer-reviewed/refereed. (2023).
2. Brammer, S., Martinez, R., Carter, N., TTU Libraries Open Education Week Virtual Conference, "A book for the next Generation: Reflecting an OER e-book for Gen Z," peer-reviewed/refereed. (2023).
3. Condis, M., Carter, N., Schoonover, K., National Communication Association, National Communication Association, National Harbor, Maryland., ""Investigating College Students' Grade Appeal Requests Based on the Sex of the Instructor.,"" International, peer-reviewed/refereed. (November 2023).
4. Perez, C., Carter, N., National Communication Association, Washington DC, "College Students' Perceptions Regarding Dating and Dating Apps During the Pandemic.," peer-reviewed/refereed. (November 18, 2023).
5. Condis, M., Carter, N., Schoonover, K., National Communication Association, Washington DC, "Investigating College Students' Grade Appeal Requests Based on the Sex of the Instructor.," peer-reviewed/refereed. (November 17, 2023).
6. Perez, C., Matusitz, J., Carter, N., National Communication Association, Washington DC, "Development and Validity Testing of a Measure for the Social Media Paradox Theory," peer-reviewed/refereed. (November 16, 2023).
7. Carter, N., world communication association, honolulu, hawaii, "Mentoring and Teaching International Students," peer-reviewed/refereed. (July 27, 2023).
8. Carter, N., National Communication Association, Honolulu, Hawaii, "Understanding Cultural Communication Competence." (July 2, 2023).
9. Williams-Turkowski, S. (Author Only), Carter, N. (Presenter & Author), The Pop Culture Association, Pop Culture Association/American Culture Association, San Antonio, TX, United States, "Analyzing the Relationships among Villains, Gender, and Sexuality in Graphic Novels," National, peer-reviewed/refereed. (April 2023).

Shen, Leslie

Publications

1. Santos JM, Wang R, Bhakta V, Driver Z, Vadim Y, Kiritoshi T, Ji G, Neugebauer V, Shen CL (corresponding author). Turmeric bioactive compounds ameliorate neuropathic pain by beneficial actions on glial activation, mitochondrial function, and oxidative stress in rat spinal cord and amygdala. *Nutrients*. 2023, 15(20), 4403; <https://doi.org/10.3390/nu15204403>
2. Shen CL, Newman JW, Elmasyry MM, Borkowski K, Chyu MC, Kahathuduwa C, Neugebauer V, Watkins BA. Tai Chi exercise reduces circulating levels of inflammatory oxylipins in postmenopausal women with

knee osteoarthritis: results from a pilot study. *Frontiers in Medicine*, 2023. 10:1210170. doi: 10.3389/fmed.2023.1210170

3. Shen CL, Dufour JM, Miranda JM, Kaur G, Chung E, Cao JJ. Effect of dietary geranylgeraniol and green tea polyphenols on glucose homeostasis, bone turnover biomarkers, and bone microstructure in obese mice. *Special Issue: Bioactive Compounds: From Diet to Therapeutic Use. International Journal of Molecular Sciences*. 2023; 24(2):979.
4. Dhanasekara C, Payberah D, Chyu JY, Shen CL, Kahathuduwa C. The Effectiveness of Botulinum Toxin in the Prevention and Treatment of Chronic Tension-Type Headaches: A Systematic Review and Meta-Analysis. *Cephalalgia* 2023;43(3):333102422150231. doi:[10.1177/03331024221150231](https://doi.org/10.1177/03331024221150231)

Presentation

Poster

1. Shen CL, Deshmukh H, Santos JM, Elmassry MM, Presto P, Driver Z, Bhakta V, Yakhnitsa V, Kiritoshi T, Ji G, Lovett J, Hamood A, Neugebauer V. Fecal microbiota transplantation modulated gut microbiome composition and suppressed microglial activation in brain and colon of neuropathic rats: microbiota-gut-brain axis. *International Conference on Frailty and Sarcopenia Research (ICFSR) 2024*, 1-17-24.
2. Shen CL, Santos JM, Elmassry MM, Presto P, Yakhnitsa V, Antenucci N, Kiritoshi T, Ji G, Neugebauer V. Crosstalk between intestinal barrier, gut microbiota, and amygdala neuropathology genes after ginger supplementation in female rats with neuropathic pain. Annual Meeting of Neuroscience, 2023. Poster.
3. Shen CL, Santos JM, Shi S, Chen F, Driver Z, Stephens E, Walston C, Contreras J, Lovett J, Neugebauer V. Ginger supplementation mitigates spontaneous pain in neuropathic male rats via gut-brain-interaction. NeuPSIG 2023. Poster.
4. Shen CL, Newman JW, Elmassry MM, Borkowski K, Chyu MC, Kahathuduwa C, Neugebauer V, Watkins BA. Dietary PUFA interactions with exercise to alter neuroinflammation. Nutrition 2023. Poster
5. Santos JM, Driver Z, Bhakta V, Presto P, Wang R, Deshmukh H, Kiritoshi T, Yakhnitsa V, Antenucci N, Guangchen J, Neugebauer V, Shen CL. Ginger differentially mitigates neuroinflammation and improves mitochondrial function in male and female rats with neuropathic pain: gut-brain axis. Nutrition 2023. Poster.
6. Berk S, Rudder J, Lovett J, Jones B, Dufour J, Dunn DM, Shen CL. The Medical Student Summer Research Program (MSSRP) at Texas Tech University Health Sciences Center: identifying barriers and providing solutions to build research foundations. SGEA 2023 annual conference. Poster.
7. Shen CL, Lovett J, Jones B, Dufour J, Dunn DM, Berk S. Establishing a Distinction in Medical Research (DMR) Program at Texas Tech University Health Sciences Center (TTUHSC): Four-Year Structured Medical Research Curriculum for Medical Students. SGEA 2023 annual conference. Poster.

Oral

1. Shen CL, Santos JM, Elmassry MM, Bhakta V, Driver D, Wang R, Ji G, Yakhnitsa V, Kiritoshi T, Lovett J, Hamood AN, Sang S, Neugebauer V. Ginger mitigates pain in SNL-treated rats via improving gut microbiome and reversing molecular signature of amygdala neuroimmune signaling: microbiome-brain-axis. Nutrition 2023. Oral invitation.
2. Shen CL. Bioactive compounds for neuropathic pain: gut-brain axis. TTU-NS Seminar. 2/16/2023.
3. Shen, CL. Career Path in Integrative Health. 2023 Permian Basin Research Day. 4/20/2023.
4. Shen CL. Bioactive Compounds for Management of Chronic Diseases. USDA Grand Forks Human Research Center. Grand Forks, ND. 8/25/23.

Funded Research:

1. "Curcumin and Retinal Amyloid-beta Pilot Study". Shen CL (PI). Kelly Mitchell (Co-I), Dale Dunn (Co-I), Jaehoon Lee (Co-I). The goal of this study is to test how two weeks of curcumin supplementation would cross the blood brain barrier (BBB) and attach to amyloid beta proteins, to assess the feasibility (safety and bioavailability), and to explore the resulting abundance/composition of gut microbiota. Sabinsa Corporation, East Windsor, NJ. 1/1/2022-12/31/2022. \$94,991.
2. "Effect of annatto-derived geranylgeraniol (GG) on statin-associated myopathy". Shen CL (PI). Mohammad (Mac) Ansari (Co-I), Dale Dunn (Co-I), Scott Shurmur (consultant), Jaehoon Lee (Co-I), Hui-Ying Luk (Co-I). The goal of this study is to evaluate the effects of 3-months annatto-

derived geranylgeraniol (GG) supplementation on statin-associated skeletal muscle health. Funded by American River Nutrition, LLC. \$266,294. 1/1/2022-12/31/2023.

3. "Ginger root extract for neuropathic pain".
Shen CL (PI-contact, 4%), Neugebauer, Volker (MPI). USDA/NIFA. Award no: 2021-67017-34026. The goal of this study is to evaluate the effects of ginger root extract on neuropathic pain-associated sensory and affective behaviors, gut health, and neuroinflammation in animals. \$500,000. 1/1/2021-8/31/2023.
4. "Medication Development for the Treatment of Alcohol Use Disorder".
Bergeson S (PI-contact), Shen CL (MPI, 33%). NIH/NIAAA. U01-AA028957. The goal of this study is to complete studies to prepare the chemically modified minocycline analogs for completion of investigational new drug (IND) enabling approval by the FDA and to begin a Phase I clinical trial. \$7,251,682. 9/20/2020-8/31/2025.
5. Davis Foundation 11/10/22 – 10/31/24 (NCE)
"Ginger extract in anxio-depressive disorders: gut-brain-axis"
PI (Contact), Chwan-Li (Leslie) Shen (TTUHSC)
MPI, Volker Neugebauer
Total costs: \$10,000
6. Source 2022 American River Nutrition, LLC, Hadley, MA. Title: Action of dietary tocotrienols on obesity. Award Amount: \$70000. Status: Active Role: Co-I

Shin, Andrew

Publication

Peer-referred article

1. Shah H, Kramer A, Mullins CA, Mattern M, Gannaban RB, Townsend RL, Campagna SR, Morrison CD, Berthoud HR, Shin AC. Reduction of plasma BCAAs following Roux-en-Y gastric bypass surgery is mediated by FGF21. *Nutrients*, 2023 15(7): 1713
2. Shah H, Dehghani F, Ramezan M, Gannaban RB, Haque Z, Rahimi F, Abbasi S, Shin AC. Revisiting the role of vitamins and minerals in Alzheimer's disease. *Antioxidants*, 2023 Feb 8; 12(2): 415

Grant

1. Alzheimer's Association Research Grant (AARG) A BCAA-lowering compound as a novel approach to delay the onset of AD, Sep 2023 – Sep 2026 (PI: Andrew C. Shin). \$199,918
2. NIH R01 AG071560-01A1 Serotonin-modulated mitochondrial dysfunction in dementia, depression and diabetes, Feb 2022 – Jan 2027 (PI: Arubala Reddy; Co-I: Andrew C. Shin). \$2,577,012
3. NIH R01 1R01AG073826-01A1 The hippocampal dentate gyrus in aging and Alzheimer's disease: boosting transcription of retinoic acid-sensitive genes through vitamin A supplementation and HDAC inhibition, Aug 2022 – Apr 2027 (PI: John J. Lawrence; Co-I: Andrew C. Shin) \$3,140,235
4. College of Human Sciences, TTU The role of synbiotics in age-related biomarkers and cognitive function in older adults, Oct 2023 – August 2024 (PIs: Shannon Galyean; Andrew C. Shin). \$18,195
5. College of Human Sciences, TTU Brain-adipose communication following chronic alcohol consumption, Jan 2023 – August 2023 (PIs: Andrew C. Shin; Heejin Jun). \$5,000
6. College of Human Sciences, TTU The role of synbiotics in metabolic health and muscle tone in elder people, Oct 2022 – August 2023 (PI: Andrew C. Shin). \$16,000
7. Scientific & Technological Research Council of Turkey The effects of central and systemic irisin on glucose homeostasis in diet-induced obese mice, Nov 2020 – August 2023 (PI: Hale E. Egritag; Co-PI: Andrew C. Shin) \$50,000
8. College of Human Sciences, TTU Effects of BT2 on AD-related pathology in the brain, April 2022 – April 2023 (PI: Andrew C. Shin). \$15,000.
9. Wylie Briscoe Fund, College of Human Sciences, TTU Serum metabolomics in women with Alzheimer's disease, Dec 2021 – Feb 2023 (PI: Andrew C. Shin). \$20,000.

Presentation

Oral

1. Speaker, Indiana University, Department of Human Biology, Bloomington, Indiana, USA Overview of ingestive behavior, satiation & satiety

Poster

1. hah H, Haque Z, Gannaban RB, Shin AC. AgRP neurons control glucose homeostasis through branched-chain amino acids. Keystone Symposia, Palm Springs, CA, May 2023
2. Haque ZF, Shah H, Hegde V, Reddy PH, Shin AC. Effects of Aqua soluble DDQ on adipocyte mitochondrial function. 22nd Graduate Student Research Poster Competition, TTU, April 2023
3. Shah H, Haque Z, Gannaban RB, Shin AC. AgRP neurons control glucose homeostasis through branched-chain amino acids. 22nd Graduate Student Research Poster Competition, TTU, April 2023
4. Mammen A, Shah H, Shin AC. Evaluation of genes related to reward and hedonic in the dorsolateral striatum following RYGB surgery in obese mice. Undergraduate Research Conference, TTU, Apr 2023
5. Ameg J, Gannaban RB, Shah H, Shin AC. Brain-liver communication for BCAA metabolism. Undergraduate Research Conference, TTU, Apr 2023

Singh, Sharda

Publication

Peer-referred article

1. Bose C, Kshirsagar S, Vijayan M, Kumar S, **Singh SP**, Hindle A, Reddy PH. The role of RLIP76 in oxidative stress and mitochondrial dysfunction: Evidence based on autopsy brains from Alzheimer's disease patients. *Biochim Biophys Acta Mol Basis Dis.* 2024;1870(2):166932. Epub 20231104. doi: 10.1016/j.bbadis.2023.166932. PubMed PMID: 37926360.
2. Sardela de Miranda F, Castro M, Remmert N, **Singh SP**, Layeequr Rahman R, Melkus MW. Leveraging cryoablation and checkpoint inhibitors for high-risk triple negative breast cancer. *Front Immunol.* 2023;14:1258873. Epub 20231004. doi: 10.3389/fimmu.2023.1258873. PubMed PMID: 37860001; PMCID: PMC10582696.
3. Reddy PH, Kshirsagar S, Bose C, Pradeepkiran JA, Hindle A, **Singh SP**, Reddy AP, Baig J. Rlip Reduction Induces Oxidative Stress and Mitochondrial Dysfunction in Mutant Tau-Expressed Immortalized Hippocampal Neurons: Mechanistic Insights. *Cells.* 2023;12(12). Epub 20230616. doi: 10.3390/cells12121646. PubMed PMID: 37371116; PMCID: PMC10297078.
4. Reddy PH, Kshirsagar S, Bose C, Pradeepkiran JA, Hindle A, **Singh SP**, Reddy AP. Rlip overexpression reduces oxidative stress and mitochondrial dysfunction in Alzheimer's disease: Mechanistic insights. *Biochim Biophys Acta Mol Basis Dis.* 2023;1869(7):166759. Epub 20230522. doi: 10.1016/j.bbadis.2023.166759. PubMed PMID: 37225106.
5. Nemecek-Bakk AS, Sridharan V, Seawright JW, Nelson GA, Cao M, Singh P, Cheema AK, Singh B, Li Y, Koturbash I, Miousse IR, Ewing LE, Skinner CM, Landes RD, Lowery JD, Mao X-W, **Singh SP**, Boerma M. Effects of proton and oxygen ion irradiation on cardiovascular function and structure in a rabbit model. *Life Sciences in Space Research.* 2023;37:78-87. doi: 10.1016/j.lssr.2023.03.008.

Book

1. Singh SP, Awasthi S, Hindle A, Bose C. Role of oxidative stress in the severity of COVID-19. In: COVID-19 in Alzheimer's Disease and Dementia, (Reddy, H. ed.), Elsevier Inc, 3251 Riverport Lane, St. Louis, Missouri 63043 USA, 2023.

Grant

1. CIPRT PP220006 (Rahman PI) 3/01/2022 - 02/28/2025
Title of Grant: Access to Breast Care and Cervical for West Texas (ABC24WT)
Major goals: The proposed studies will perform preventive screening of Breast and Cervical cancer in rural West Texas counties. Role: Finance Manage. \$2,500,000
2. Nutramax Laboratories Consumer Care, Inc. 2208 Lakeside Boulevard Edgewood, MD 21040 (Singh, PI) 2020-2024.

- Support for a clinical trial: L18-089, Phase II trial of effects of the Nutritional Supplement Sulforaphane on Doxorubicin-Associated Cardiac Dysfunction. Role: Principal-Investigator. \$50,000
3. School of Medicine Research Seed Grant Program TTUHSC (Singh, PI) 2022-2023.
Support for a clinical trial: L22-024, Prevention of Age-associated cardiac and vascular dysfunction through Nrf2 signaling using the nutritional supplement Sulforaphane. Role: Principal-Investigator. \$30,000
 4. The CH Foundation (Singh, PI) 1/1/21-12/31/23
Improved Doxorubicin Chemotherapy with Sulforaphane
Major goals: The proposed studies will determine for the first time whether SFN can be used safely with doxorubicin in a neo-adjuvant setting in breast cancer patients and whether SFN may enhance DOX's chemotherapeutic actions while simultaneously reducing cardiotoxic side effects. Role: Principal Investigator. \$50,000
 5. L18-089, 2019 - Present, Singh SP (Principal Investigator), Phase II trial of effects of the Nutritional Supplement Sulforaphane on Doxorubicin-Associated Cardiac Dysfunction. We obtained Investigational New Drug (IND) Approval from FDA (IND #141682) and our study registered at *clinical trials.gov* (NCT03934905). \$25,000
 6. L22-024, 2022 - Present, Singh SP (Principal Investigator), Prevention of Age-associated cardiac and vascular dysfunction through Nrf2 signaling using the nutritional supplement Sulforaphane. We obtained Investigational New Drug (IND) Approval from FDA (IND #1614782) and our study registered at *clinical trials.gov* (NCT05408559)
 7. L21-076, 2023 - Present, Singh SP (Co-Investigator), Rahman RL (Principal Investigator) Local Therapy Optimization by Grouping Immune-modulation with Cryoablation (LOGIC) for High Risk Breast Cancers. Our study registered at *clinical trials.gov* (NCT05806385)
 8. A22-4295, 2019-present, Singh SP (Co-Investigator), Shabnam Rehman. (Principal Investigator), S2013, IMMUNE CHECKPOINT INHIBITOR TOXICITY (I-CHECKIT): A PROSPECTIVE OBSERVATIONAL STUDY.
 9. L08-064, 2019 - Present, Singh SP (Co-Investigator), Reynolds CP (Principal Investigator), Banking of Tissue and Establishing Continuous Cell Lines and Xenografts from Neoplasia.
 10. LBB18-174, 2019 - Present, Singh SP (Co-Investigator), Sethi P (Principal Investigator), Treating Vitamin D insufficiency in community-dwelling elderly to improve arterial stiffness. \$20,000
 11. L19-164, 2019-present, Singh SP (Co-Investigator), Shabnam Rehman. (Principal Investigator), Rlip antibodies in patients on immune checkpoint inhibitor therapy for cancer.

Sizer, Phil

Publication

1. Vintimilla A, Hooper T, James CR, Kapila J, Lu H, Natesan K, Sizer PS. Central fatigue effects on cervical joint position error, strength, and endurance. *Int J Sports Phys Ther.* 2023. Accepted for Publication.
2. Burgess NE,* Gilbert KK, Sobczak S, Sizer PS, Homen D, Lierly M, Kearns G, Brismee JM. Δ Upper limb neurodynamic mobilization disperses intraneural fluid in cervical nerve roots: a human cadaveric investigation. *Musculoskelet Sci Pract.* 2023;68:102876. doi:10.1016/j.msksp.2023.102876. (In Press).
3. Yang HS,* James CR,Δ Atkins LT, Sawyer SF, Sizer PS, Kumar NA, Burgess NE, Kim J. Exploration of arm weight effects on hemiparetic stroke participants' gait performance. *Clin Biomech.* 2023 Feb;102:105873. doi: 10.1016/j.clinbiomech.2023.105873. Epub 2023 Jan 4 (In press)
4. Ward A, Drusch A, Chen Y-R, Ouellette M, Brismée JM, Hooper T, Wilford K, Seeber GH, Sizer PS.*Δ Effect of verbal instruction on trunk muscle activity during volitional preemptive abdominal contraction. *J Bodyw Mov Ther,* 2023.37:332-342.
5. McCormick JB,* Drusch AS, Lynch DJ, Seeber GH, Wilford KF, Hooper TL, Allen BS, O'Connell DG, Menalturriaga MJ, Cooper KJ, Sizer PS. Δ The effect of volitional preemptive abdominal contraction on biomechanical measures during a front versus back loaded barbell squat. *Int J Sports Phys Ther.* 2023. 18(4):831-844.

Presentation

Poster

1. Seeber GH, Kapila J, Drusch A, Natesan K, Wainer-Baracatt M, James CR, Mauri-Stecca M, Hooper T, Sizer PS. Effect of hip rotation pre-position and volitional preemptive abdominal contraction on hip muscle activity and lumbopelvic complex kinematics during active side-lying hip abduction (Abstract #68). AAOMPT 2023 Conference - St.Louis, MO; October 25-29, 2023. submitted.
2. Kapila J, James CR, Brismee JM, Sizer PS, Sobczak S, Likness A, Hooper TL. Immediate neck extensor fatigue effects on cervical extensor activity in individuals with and without neck pain history. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center, Lubbock, Texas. April 24, 2023.

Oral

1. Crawford MT, Brismée JM, St-Pierre MO, Bellot N, Sizer PS, Sobczak S. “Cervical intradiscal pressures respond consistently to end-range flexion and traction, not protraction, retraction or extension: A cadaveric investigation. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center, Lubbock, Texas. April 24, 2023.
2. Kapila J, James CR, Sizer, PS, Brismee JM, Sobczak S, Likeness A and Hooper TL. Immediate neck extensor fatigue effects on cervical extensor activity in individuals with and without neck pain history. Oral Presentation at: South Central American Society of Biomechanics Conference; March 31-April 1, 2023, Fort Worth, TX
3. Cooper KJ, James CR, Sizer PS, Harry J, Munger L, Natesan K, Chiddarwar V, Hooper TL. The effects of hip function on plyometric performance during a single-leg drop vertical jump following anterior cruciate ligament reconstruction. Endowed Lecture Series Meeting at Texas Tech University Health Sciences Center, Lubbock, Texas. April 24, 2023.
4. Let’s Get our Patients Moving! Texas Pain Society 15th Annual Scientific Meeting (Bastrop, TX, USA; October, 2023)
5. Virtual Course Principal Lecturer: Sensorimotor Control of the Upper and Lower Quarter-Part 1; Universidad del Desarrollo Exercise Diploma Program (Santiago, Chile; October, 2023)
6. Persistent Lumbosacral Pain – Empowering Clinician and Patient Success (Virtual; HELB-ETMA; Brussels, Belgium; June, 2023)

St-John, Julie

Publication

Peer-referred article

1. Lee, L. K., **St. John, J. A.**, Fox, D. J.**, & Rosenthal, E. L. (2023, August). Editorial: Strengthening the Community Health Worker Practice. *Frontiers in public health*, 11, 1254264. <https://doi.org/10.3389/fpubh.2023.1254264>
2. **St. John, J.** (2023, Spring). Human Trafficking in Texas: Bigger but not better. *Panhandle Health*, 34(2). https://www.prcms.com/uploadedFiles/Potter-Randall_County_Medical_Society/J070415_PanHealth_Spring2023_WEB.pdf
3. St. John, J. A. S., Lee, L. K., Rosenthal, E. L., Fox, D. J.**, eds. (2023). Strengthening the community health worker practice. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-3451-9, <https://www.frontiersin.org/articles/10.3389/fpubh.2023.1254264/full>

Book

1. Lee, L., **St. John JA**, Brownstein, N., Jewell, P.**, & Holderby-Fox, L.R.** (2023). Chapter 23: Research, Evaluation and Dissemination of Findings. In *Foundations for Community Health Workers*, 3rd ed. Editors Tim Berthold & Darouny Somsanith. In Print.

Others:

1. **St. John, J.** (2023, January 12). The Health Issues of Human Trafficking. *TTUHSC The Daily Dose*. <https://dailydose.ttuhscc.edu/2023/january/health-issues-of-human-trafficking.aspx>

- Bane, A. Jumper, J., Spindler, L., **St. John, J.**, Walls, D., Wilson, L. & Wyatt, P. (2023, February 6). Living Well: Gear and Gadgets for the One you Love with Parkinson's. Davis Phinney Foundation for Parkinson's. <https://davisphinneyfoundation.org/living-well-gear-and-gadgets/>

Presentation

Poster

- Women' thriving in the Americas (oral presentation). Stephanie Moreno, Dung Le, **Julie St. John**, Lisaann Gittner. American Public Health Association Annual Meeting, November 13, 2023, Atlanta, Georgia.
- Training community health workers how to apply the health belief model: A pilot study (round table). Nusrat Meharun*, **Julie St. John**. American Public Health Association Annual Meeting, November 13, 2023, Atlanta, Georgia.
- Results from a human trafficking community assessment in thirteen counties in the big county, west Texas: A comparison of urban and rural counties (oral presentation). **Julie St. John**. American Public Health Association Annual Meeting, November 14, 2023, Atlanta, Georgia.
- A model for adapting and aligning existing CHW core curriculum with the national CHW core consensus (C3) project core competencies and roles (oral presentation). **Julie St. John**, Durrell Fox**, Paige Menking, Lily Lee, Floribella Redondo**, Lisa Renee Holderby-Fox**, Jorge Ybarra, E. Lee Rosenthal. American Public Health Association Annual Meeting, November 13, 2023, Atlanta, Georgia.
- From our hearts to our hands: Mapping C3 roles & competencies to job descriptions (training). Lily Lee, **Julie St. John**, Lee Rosenthal, Durrell Fox**, Paige Menking, Floribella Redondo**. National Association of Community Health Workers (NACHW) Unity Conference and Annual Meeting: Community Health Workers: The Workforce We Need for the World We Want. August 5, 2023, Austin, Texas.
- I'm a MaMa First: Tips for CHWs in Their Homelife (workshop). **Julie St. John** & Erika Carrillo**. National Association of Community Health Workers (NACHW) Unity Conference and Annual Meeting: Community Health Workers: The Workforce We Need for the World We Want. August 5, 2023, Austin, Texas.
- Equipping CHWs to conduct peer review for publications (training). **Julie St. John** & Ashley Rodriguez. National Association of Community Health Workers (NACHW) Unity Conference and Annual Meeting: Community Health Workers: The Workforce We Need for the World We Want. August 4, 2023, Austin, Texas.
- Laughter Therapy: Saving your sanity through laughter (presentation). **Julie St. John**. Rural CHW Network 6th Annual Making Connections Conference: Rest, Relax and Retreat, April 13-15, 2023, Gulf Shores, Alabama.
- Applying findings from survey data to the creation of health education materials in a rural Peruvian community (virtual presentation). Olayemi Olumakinwa*, Sunday Lawal*, **Julie St. John**. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February 28-March 3, 2023. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>
- Creating picture-centric education materials for use and maintenance of composting latrines (virtual presentation). Sunday Lawal*, Olayemi Olumakinwa*, **Julie St. John**. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February 28-March 3, 2023. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>
- Developing a training curriculum for community health workers (CHWs) on Heart Disease Prevention (virtual presentation). Hailey Kreusel*, Roxanna Lopez**, **Julie St. John**. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February 28-March 3, 2023. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>
- Health equity for Parmer and Deaf Smith Counties (presentation). Kelsey Sprinkles*, Theresa Byrd, **Julie St. John**, Jeff Dennis, Erika Carrillo**. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February 28-March 3, 2023, Lubbock, TX. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>
- Results of Community Outreach and Engagement Efforts for the Prevention and Intervention of Sexually Transmittable Infections in Fort Bend County, TX (presentation). Chandler W. Nolte*, Barbarah Martinez, **Julie St. John**. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February

28-March 3, 2023, Lubbock, TX. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>

14. Women's Thriving in the Americas (virtual presentation). Stephanie Moreno*, Dung Le*, **Julie St. John**, Lisa Gittner. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February 28-March 3, 2023. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>
15. Women's Thriving in a Blue Zone (virtual presentation). Dung Le*, Stephanie Moreno*, **Julie St. John**, Lisa Gittner. TTUHSC Graduate School of Biomedical Sciences Student Research Week, February 28-March 3, 2023. <https://www.ttuhs.edu/biomedical-sciences/documents/SRWandGSA/srw-2023/AbstractBook.pdf>

Oral

1. VIBRANT MOMS Collaborations (presenter). Christine Garner, Julie St. John, Stephanie Stroever. Texas Tech University Health Sciences Center One Health Faculty Research Club: Collaborative Teams, November 30, 2023, Amarillo, TX.
2. Laughter Therapy: Saving your sanity through laughter (3 hour workshop). Julie St. John. Northeast Texas Community Health Worker 2023 Annual Conference, July 13-14, 2023, Tyler, TX.
3. Bridging the Gap: Addressing Rural Healthcare Disparities and Promoting Panel (panelist). Julie St. John. Office of Research, School of Health Professions, Texas Tech University Health Sciences Center, Equity Endowed Lecture Series, Lubbock, Texas, April 24, 2023.
4. Addressing Human Trafficking through a Public Health Framework (presenter). Julie St. John. Texas Department of Health and Human Services, Department of Child & Family Protective Services, virtual, March 30, 2023.
5. Celebrating Women & Emotional Wellness: Examples from the past to inspire the future (presenter). Julie St. John. Well Beyond Quality Enhancement Plan, Texas Tech University Health Sciences Center, virtual, March 28, 2023.
6. Complementary & Alternative Medicine 101: What every pharmacist should know (presenter). Julie St. John. West Texas Pharmacy Association Annual Convention, Lubbock, Texas, March 5, 2023.

Grant

1. *The landscape of the Texas Community Health Worker workforce and implications for sustainability*. Funded by the Episcopal Health Foundation. \$75,000, University of Arlington. Role: Sub-contractor. (November 2023 – December 2024).
2. *ACTION for Big Country*. Cancer Prevention Research Institute of Texas. Grant ID: PP230030. Role: Principal Investigator. \$997,266 (August 31, 2023 – August 30, 2026).
3. *VIBRANT MOMS: Verifying & Implementing evidence-Based pRograms Addressing Needed Transformations for Maternal health Outcomes, Measures, & Support*. National Institutes of Health, National Heart, Lung, and Blood Institute: IMPROVE Community Implementation Program (IMPROVE-CIP), Grant #: OTA-20-014-C. Westat Sub-OTA No.: 6922-05-IMPROVE-S003: NIH Implementing a Maternal Health and PRegnancy Outcomes Vision for Everyone (IMPROVE) – Community Implementation Project. Role: Co-PI. \$1,385,989.65. (September 1, 2023 – August 31, 2025).
4. *CHW Core Consensus (C3) Project ENVISION Equity Training and Support Collaboration*. University of Wisconsin, HRSA CCR-2109 grant program. Total funding: \$102,850. (May 2023-May 2024).
5. *Health equity grant for Parmer, Deaf Smith, and Gray counties in Texas*. Texas Department of State Health Services. Grant #: HHS00111770001. Role: Co-investigator, PI: Theresa Byrd/Jeff Dennis. \$245,000 (December 17, 2021 – May 31, 2024). [Phase 2 funding pending through May 2026]
6. *Strategic Planning*. Saint Francis Ministries. Role: Consultant. \$20,000 (January-December 2023).
7. *Environmental Scan & Retreat Facilitation*. Saint Francis Ministries. \$15,000 (January-March 2023).
8. *Piloting a Composting Latrine Project in Pedregal Grande, Piura, Peru*. TTUHSC Office of Global Health, \$10,000 (January 2021-August 2024).
9. *International Rescue Committee, Abilene, Victims of Trafficking Program*. OVC Fiscal Year (FY) 2019, Direct Services to Support Victims of Human Trafficking, Office for Victims of Crime, Office of Justice Programs, U.S. Department of Justice, CO-I & Evaluator, sub contracted, International Rescue Committee, \$28,168 (January 2020-March 2023).*

Stroeveer, Stephanie

Publication

Per-referred article

1. Iwuji K, Kanu AC, **Stroeveer S**, Nugent KM, Hamood AN, Scott C, Navarro S. Clinical significance of BPI-ANCA in patients with Cystic Fibrosis: A single center prospective study. *Scientific Reports*, 13:, October 2023.
2. Chen J, Evans J, Bou Fakhreddine A, **Stroeveer S**, Islam E, Islam S. Retrograde cricopharyngeus dysfunction: How does the inability to burp affect daily life? *Neurogastroenterology & Motility*, 36(2):, December 20, 2023.
3. Enriquez J, Mims BM, **Stroeveer S**, Pires dos Santos A, Jones-Hall J, Furr KL, Grisham M. Influence of Housing Temperature and Genetic Diversity on Allogeneic T Cell-Induced Tissue Damage in Mice. *Pathophysiology*, 30(4): 522-547, November 20, 2023.
4. Marinone M, Serino J, **Stroeveer S**, Brzozowski N, Kliss A, Doo D, Chuang L. Assessment of Pre-operative Vaginal Preparation for Laparoscopic Hysterectomy. *Journal of the Society of Laproendoscopic Surgeons*, 27(3): e2023.00013, September 2023.
5. Becker B, **Stroeveer S**, Reddy A, de Riese WTW. Comparison of Intermittent and Continuous Androgen Deprivation Therapy in Prostate Cancer Patients: An Up-to-Date Meta-analysis for Urologists and Medical Providers. *Urology Practice*, 10(5): 424-434, September 2023.
6. Bohn K, Fernandez A, **Stroeveer S**, O'Neil D, Enderle J, Krutsch K. Mixing Meds and Milk: Evaluation of a Performance Gap Intervention for Provider Education in Breastfeeding and Maternal Medication Use. *International Journal of Environmental Research and Public Health*, 20(19): 6850, September 28, 2023.
7. Aploks K, Kim M, **Stroeveer S**, Ostapenko A, Sim YB, Sooriyakumar A, Rahimi-Ardabili A, Dong XD. Radiation therapy prior to a pancreaticoduodenectomy for adenocarcinoma is associated with longer operative times and higher blood loss. *World J Gastrointest Surg.*, 15(8): 1663-1672, August 27, 2023. PubMed Central ID Number: PMC10494586
8. Moon AS, Andikyan V, Agarwal R, **Stroeveer S**, Misita D, Laibangyang A, Doo D, Chuang L. Incisional infiltration versus transversus abdominis plane block of liposomal bupivacaine after midline vertical laparotomy for suspected gynecologic malignancy: a pilot study. *Gynecologic Oncology Reports*, 47:, June 2023.
9. Rahimi-Ardabili A, **Stroeveer S**, Fukumoto R. Cross-Sectional Assessment of Surgical Consult Volume to Determine Optimal Residency Staffing During COVID-19 Lockdown. *The Journal of Surgical Research*, 283: 793-797, March 1, 2023. PubMed Central ID Number: PMC9682052
10. Muslim Z, **Stroeveer S**, Razi SS, Poulidikis K, Baig MZ, Connery CP, Bhora FY. Increasing Time-to-Treatment for Lung Cancer: Are We Going Backward? *The Annals of Thoracic Surgery*, 115(1): 192-199, January 1, 2023.
11. Alexander O, **Stroeveer S**, Eyasu L, Kim M, Aploks K, Dong X, Seshadri R. Role of ablation therapy in conjunction with surgical resection for neuroendocrine tumors (NETs): Risks and benefits of multimodality surgical treatment for NETs involving liver. *MedRxiv*, November 2023. (non-peer-referred)

Abstracts

1. Bharathidasan K, Tran V, Saowapa S, Dayama N, Rehman S, **Stroeveer S**. Compliance with Lung Cancer Screening Guidelines Among At-Risk Patients at a Rural Teaching Hospital in West Texas. *Journal of Thoracic Oncology*, 18(11, Supplement): S467, November 2023.
2. Frankovsky F, **Stroeveer S**, Weitz A, Mecham C, Rios A, Buhavac M, Morris T. Barriers to Early Adoption of Novel Program to Train and Evaluate Resident Performance as Trauma Team Leaders. *Annals of Emergency Medicine*, 82(4, Supplement): S118, October 2023.
3. Weitz A, **Stroeveer S**, Mecham C, Frankovsky F, Rios A, Buhavac M, Morris T. Baseline Measures of Resident and Faculty Confidence Perceptions on Leading Level 1 Traumas Prior to Implementation of a Novel Training Program. *Annals of Emergency Medicine*, 82(4, Supplement): S118, October 2023.
4. Chen J, Evans J, **Stroeveer S**, Pang A, Islam S. Retrograde Cricopharyngeus Dysfunction: How Does the Inability to Burp Affect Daily Life? *The American Journal of Gastroenterology*, 118(10S): S427, October 2023.

5. Lanning C, Stroever S, Weitz A, Mecham C, Frankovsky F, Rios A, Buhavac M, Morris T. Trauma Education Practices in Emergency Medicine Residencies: A Survey of Program Directors. *Annals of Emergency Medicine*, 82(4, Supplement): S118, October 2023.
6. Shah M, Balavram D, Laibangyang A, **Stroever S**, Chuang L. Factors predicting adherence to genetic testing in patient with endometrial cancer. *Gynecologic Oncology*, 173(Supplement 1): S10-S11, July 2023.

Presentation

Poster

1. Stroever S, Hill K. Management of Sewer Flies (and Other Creepy Crawlies) in the OR APIC 2024 Annual Conference, Association for Professionals in Infection Control and Epidemiology, San Antonio, Texas, June 2024. (Peer Reviewed)
2. Zheyar S, John W, Stroever S, de Riese WTW. Comparison of Prostate Cancer Incidence Stratified by Prostate Gland Volume in the Prostate Cancer Prevention Trials (PCPT) American Urological Association 2024 Annual Conference, American Urological Association, San Antonio, Texas, May 2024. (Peer Reviewed)
3. Guerin C, Abikoye T, Pederson A, Santineau K, Bimali M, Bou Fakhreddine A, Stroever S, Dominguez L, Mitchell KT. Comparison of initial and deferred laser therapy for the treatment of Type 1 retinopathy of prematurity. ARVO 2024 Annual Meeting, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 2024. (Peer Reviewed)
4. Shekoh Q, Abikoye T, Pederson A, Santineau K, Bimali M, Bou Fakhreddine A, Stroever S, Dominguez L, Mitchell KT. The effect of laser frequency on the outcomes of treatment of Type 1 Retinopathy of Prematurity: ND YAG laser (532nm) vs Diode laser (810nm) ARVO 2024 Annual Meeting, Association for Research in Vision and Ophthalmology, Seattle, Washington, May 2024. (Peer Reviewed)
5. Lewsey H, Nibo A, Swami N, Patel R, Stroever S, Cobbs L. A Scoping Review of Content and Themes of Cultural Competence Curricula in U.S. Medical Schools 2024 GSA-CIM-OSR National Meeting, Association of American Medical Colleges, San Francisco, California, April 2024. (Peer Reviewed)
6. Stroever S. Odor Control: A Piece of Cake SHEA Spring 2024, Society for Healthcare Epidemiology of America, Houston, TX, April 2024. (Peer Reviewed)
7. Yu L, Zhang L, Jabari I, Stroever S, Jones BG, Shen C-L. Elective Course for Mandarin Chinese Use During Patient Interviews Southern Group on Educational Affairs 2024 Annual Conference, Association of American Medical Colleges, Houston, Texas, April 2024. (Peer Reviewed)
8. Zhang B, DaCosta A, Bou Fakhreddine A, Stroever S, O'Brien K. Coma Recovery Scale–Revised is Better to Be Performed in an Upright Position Rather Than a Lying Position in Patients with Disorders of Consciousness Evidence Informed Best Practice: Injury Through Community Reintegration, North American Brain Injury Society, Las Vegas, Nevada, March 2024. (Peer Reviewed)
9. Gumpu P, Rangaswamy B, Sharif M, Karim S, Llorente K, Kondor V, Stroever S. Gender, Racial and Ethnic Disparities in Premature MI related Mortality in the Underserved US-Mexico Border Area 2023 Texas ACP Annual Meeting, American College of Physicians Texas Chapter, South Padre Island, TX, October 2023. (Peer Reviewed)
10. Chen J, Evans J, Stroever S, Pang A, Islam S. Retrograde Cricopharyngeus Dysfunction: How does the inability to burp affect daily life? American College of Gastroenterologists 2023 Annual Scientific Meeting, American College of Gastroenterologists, Vancouver, Canada, October 24, 2023. (Peer Reviewed)
11. Frankovsky F, Stroever S, Buhavac M, Morris T, Weitz A, Mecham C. Barriers to early adoption of novel to train and evaluate resident performance as trauma team leaders ACEP 2023 Research Forum, American College of Emergency Physicians, Philadelphia, Pennsylvania, October 11, 2023. (Peer Reviewed)
12. Weitz A, Stroever S, Buhavac M, Morris T, Mecham C. Baseline Measures of Resident and Faculty Confidence Perceptions on Leading Level 1 Traumas Prior to Implementation of a Novel Training Program ACEP 2023 Research Forum, American College of Emergency Physicians, Philadelphia, Pennsylvania, October 11, 2023. (Peer Reviewed)
13. Lanning C, Stroever S, Buhavac M, Morris T, Weitz A, Mecham C. Trauma Education Practices in Emergency Medicine Residencies: A Survey of Program Directors ACEP 2023 Research Forum,

American College of Emergency Physicians, Philadelphia, Pennsylvania, October 11, 2023. (Peer Reviewed)

Grant

1. VIBRANT MOMS: Verifying & Implementing evidence-Based Programs Addressing Needed Transformations for Maternal health Outcomes, Measures, & Support, August 2023 - August 2025, NIH, IMPROVE-CIP, OTA-20-014-C. **Stroeve S (Co-Investigator)**, St. John, J. (Co-Principal Investigator), Stoughton, C. (Collaborator), Rascon, L. (Collaborator), Garner, C. D. (Principal Investigator). 15% effort, Total Amount: \$1,385,989.65.

Sun, Grace **Publication**

1. Sun, G. H. (2023). Holistic vs Integrative Healthcare. *Nursing Made Incredibly Easy !* 21(5): p46-48, September / October 2023. DOI: 10.1097/nme.0000000000000006
2. Sun, G.; Stanik-Hutt, J. From provider to professor: Supporting nurse practitioner faculty through NONPF's Faculty Institute. *Journal of the American Association of Nurse Practitioners* 35(9):p 590-597, September 2023. | DOI: 10.1097/JXX.0000000000000934
3. Sun, G. H., & Hoelscher, S. (2023). The Chat GPT Storm and What Faculty Can Do. *Wolters Kluwer Lippincott*, 48(3), 119-124. <http://dx.doi.org/10.1097/NE.0000000000001390>

Presentation

Oral

1. Sun, G. H. (Presenter & Author), Fall Conference, National Organization of Nurse Practitioner Faculties, Bethesda, "Emerging Issues in NP Education: Artificial Intelligence (Chat GPT)," Invited Plenary Speaker. (November 3, 2023).
2. Sun, G. H. (Presenter & Author), 2023 16th National DNP Conference, Doctors of Nursing Practice, virtual, "Artificial Intelligence in Healthcare: Fostering Diversity, Equity, and Inclusion in Nursing Education and Practice." Accepted Podium Speaker. (August 11-12, 2023).
3. Sun, G. H. (Presenter & Author), Sara, D. (Presenter & Author), Hopkins, S. (Presenter & Author), Carreazo Rivera, L. (Presenter & Author), Nurse Educators Conference, New Mexico Center for Nursing Excellence, Albuquerque, NM, "The Future of Nursing Education," published in proceedings, Invited. (June 9, 2023).
4. Sun, G. H. (Presenter & Author), NONPF 2019 Special Topic Conference: What you Need to Know to Deliver a Quality NP Program, National Organization of Nurse Practitioner Faculties, Bethesda, MD, "Simulation Best Practices, Design, and Debrief Process," published in proceedings, Accepted. (December 5, 2019).
5. Sun, G. H. (Presenter & Author), NONPF 2018 Fall Conference National Organization of Nurse Practitioner Faculties, Bethesda, MD, "Developing and Evaluating Simulations, OSCES, and Debriefing," published in proceedings, Accepted. (December 7, 2018)
6. Sun, G. H., NONPF Special Topic Conference, National Organization of Nurse Practitioner Faculties, Bethesda, MD, "Developing and Evaluating Simulations, OSCES, and Debriefing," published in proceedings, Accepted. (December 7, 2018)
7. Sun, G. H. (Presenter & Author), Hoelscher, S. (Presenter Only), Oermann, M. (Presenter & Author), Polancich, S. (Presenter & Author), Achieving academic excellence in nursing with new technologies: An Ovid® Synthesis webinar, Wolters Kluwer, webinar, "Achieving academic excellence in nursing with new technologies: An Ovid® Synthesis webinar." (June 13, 2023)
8. Nurse Educator Podcast. (March 17, 2023). 34 minute podcast on the Chat GPT Storm and Nursing Education: benefits, limitations, clinical practice, legal/ethical perspectives, need for policies/procedures to guide faculty in clinical practice about proper and efficient use of emerging technologies

Poster

1. Sun, G. H. (Presenter & Author), 35th Annual Conference, Texas Nurse Practitioners, Dallas, TX, "Artificial Intelligence (A.I.) and APRN Practice: The Good, the Bad, and the Ugly," published in proceedings, Accepted. (September 2023)
2. St. John, J. (Presenter & Author), Sun, G. H. (Author Only), Shen, C.-L. (Author Only), Punyanunt-Carter, N. (Author Only), Annual American Public Health Association Meeting, American Public Health Association, Denver, CO, "Nurse practitioners' attitudes and use of complementary and alternative medicine practices for pain management.," published in proceedings, Accepted. (October 23, 2021)
3. Sun, G. H. (Presenter & Author), NONPF 45th Annual Conference, National Organization of Nurse Practitioner Faculties, Atlanta, GA, "Standardizing the Approach to Development of the BSN DNP Project," published in proceedings, Accepted. (April 5, 2019)
4. Sun, G. H., 9th Annual Doctor of Nursing Practice Project Symposium: Clinical Scholars Translating Science to Improve Health, Doctor of Nursing Practice, Palm Springs, TX, "Standardizing the approach, Maintaining the Rigor, and Sustaining Successful Dissemination of the DNP Project for a BSN-DNP Program," published in proceedings, Accepted. (September 27, 2018)

Tinsley, Grant

Publication

Peer-referred article

1. Tinsley GM, Siedler MR, Rodriguez C, Harty PS, Stratton MT, White SJ, et al. Evaluation of novel beverage formulations for hydration enhancement in humans. *J Electr Bioimpedance*. 2023;14:3-12.
2. Tinsley GM, Park KS, Saenz C, Mehra A, Esco MR, Czerwinski SA, et al. Deuterium oxide validation of bioimpedance total body water estimates in Hispanic adults. *Front Nutr*. 2023;10:1221774.
3. Tinsley GM, LaValle C, Rodriguez C, Siedler MR, Heymsfield SB. Skeletal muscle estimation using magnetic-resonance-imaging-based equations for dual-energy X-ray absorptiometry and bioelectrical impedance analysis. *Eur J Clin Nutr*. 2023;77:1151-9.
4. Silva AM, Campa F, Stagi S, Gobbo LA, Buffa R, Toselli S, et al. The bioelectrical impedance analysis (BIA) international database: aims, scope, and call for data. *Eur J Clin Nutr*. 2023;77:1143-50.
5. Siedler MR, Rodriguez C, White SJ, Tinoco E, DeHaven B, Brojanac A, et al. Chronic Thermogenic Dietary Supplement Consumption: Effects on Body Composition, Anthropometrics, and Metabolism. *Nutrients*. 2023;15.
6. Siedler MR, Rodriguez C, Stratton MT, Harty PS, Keith DS, Green JJ, et al. Assessing the reliability and cross-sectional and longitudinal validity of fifteen bioelectrical impedance analysis devices. *Br J Nutr*. 2023;130:827-40.
7. 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;53:1507-26.
8. Rodriguez C, Stratton MT, Harty PS, Siedler MR, Boykin JR, Green JJ, et al. Effects of a ready-to-drink thermogenic beverage on resting energy expenditure, hemodynamic function, and subjective outcomes. *J Int Soc Sports Nutr*. 2023;20:2211958.
9. Rodriguez C, Florez CM, Prather J, Zaragoza J, Tinnin M, Brennan KL, et al. Influence of Upper-Extremity and Lower-Extremity Resistance Exercise on Segmental Body Composition and Body Fluid Estimates. *J Strength Cond Res*. 2023;37:1042-51.
10. Prather JM, Florez CM, Vargas A, Soto B, Harrison A, Willoughby D, et al. EDIT The effects of a thermogenic supplement on metabolic and hemodynamic variables and subjective mood states. *J Int Soc Sports Nutr*. 2023;20:2185538.
11. Nickerson BS, Tinsley GM, Park KS, Nassar B, Czerwinski SA. Evaluation of a Rapid Four-Compartment Model and Stand-Alone Methods in Hispanic Adults. *J Nutr*. 2023;153:2154-62.
12. McCarthy C, Tinsley GM, Yang S, Irving BA, Wong MC, Bennett JP, et al. Smartphone prediction of skeletal muscle mass: model development and validation in adults. *Am J Clin Nutr*. 2023;117:794-801.
13. McCarthy C, Tinsley GM, Bosy-Westphal A, Müller MJ, Shepherd J, Gallagher D, et al. Total and regional appendicular skeletal muscle mass prediction from dual-energy X-ray absorptiometry body composition models. *Sci Rep*. 2023;13:2590.

14. Kord-Varkaneh H, Salehi-Sahlabadi A, Tinsley GM, Santos HO, Hekmatdoost A. Effects of time-restricted feeding (16/8) combined with a low-sugar diet on the management of non-alcoholic fatty liver disease: A randomized controlled trial. *Nutrition*. 2023;105:111847.
15. Jagim AR, Tinsley GM, Merfeld BR, Ambrosius A, Khurelbaatar C, Dodge C, et al. Validation of skinfold equations and alternative methods for the determination of fat-free mass in young athletes. *Front Sports Act Living*. 2023;5:1240252.
16. Jagim AR, Harty PS, Tinsley GM, Kerksick CM, Gonzalez AM, Kreider RB, et al. International society of sports nutrition position stand: energy drinks and energy shots. *J Int Soc Sports Nutr*. 2023;20:2171314.
17. Jagim AR, Harty PS, Erickson JL, Tinsley GM, Garner D, Galpin AJ. Prevalence of adulteration in dietary supplements and recommendations for safe supplement practices in sport. *Front Sports Act Living*. 2023;5:1239121.
18. Graybeal AJ, Tinsley GM, Brandner CF, Aultman R. Raw bioelectrical impedance measurements are not different between White and Black adults when matched for sex, age, BMI, and other physical characteristics. *Nutr Res*. 2023;112:1-10.
19. Graybeal AJ, Brandner CF, Tinsley GM, Haynes H, Stavres J. Associations between visceral adipose tissue estimates produced by near-infrared spectroscopy, mobile anthropometrics, and traditional body composition assessments and estimates derived from dual-energy X-ray absorptiometry. *Br J Nutr*. 2023;130:525-35.
20. Graybeal AJ, Brandner CF, Tinsley GM. Validity and reliability of a mobile digital imaging analysis trained by a four-compartment model. *J Hum Nutr Diet*. 2023;36:905-11.
21. Graybeal AJ, Brandner CF, Tinsley GM. Evaluation of automated anthropometrics produced by smartphone-based machine learning: a comparison with traditional anthropometric assessments. *Br J Nutr*. 2023;130:1077-87.
22. Escalante G, Barakat C, Tinsley GM, Schoenfeld BJ. Nutrition, Training, Supplementation, and Performance-Enhancing Drug Practices of Male and Female Physique Athletes Peaking for Competition. *J Strength Cond Res*. 2023;37:e444-e54.
23. Brandner CF, Tinsley GM, Graybeal AJ. Smartwatch-based bioimpedance analysis for body composition estimation: precision and agreement with a 4-compartment model. *Appl Physiol Nutr Metab*. 2023;48:172-82.
24. Blue MNM, Tinsley GM, Hirsch KR, Ryan ED, Ng BK, Smith-Ryan AE. Validity of total body water measured by multi-frequency bioelectrical impedance devices in a multi-ethnic sample. *Clin Nutr ESPEN*. 2023;54:187-93.

Presentation

Poster

1. Zeno M, Chapman-Lopez T, Torres R, Ledington J, Siedler M, Rodriguez C, et al. Exploring the Role of Mental Toughness in Bone Mineral Content: A Preliminary Study. *International journal of exercise science: conference proceedings*. 2023.
2. White SJ, Ky AT, Sekiguchi Y, Tinsley GM. Differential Effects of Oral vs. Intravenous Fluid Administration on Bioelectrical Impedance During Dehydration Induced by Exercise and Heat. *International journal of exercise science: conference proceedings*. 2023;2:7.
3. Torres M, Heredia J, Khartabil A, Andraos A, Ornelas D, Islas M, et al. A comparison of body composition measurements with best practice pre-test conditions and controlled non-best practice pre-test conditions using DXA, BIS, Skinfolds, US, and the 4C model in recreationally trained males and females. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.
4. Tinoco EG, Siedler M, Rodriguez C, White S, DeHaven G, Brojanac A, et al. Alpha-Cyclodextrin-Containing Beverages for Hydration Enhancement in Humans. *International journal of exercise science: conference proceedings*. 2023;2:15.
5. Stratton M, Siedler M, Rodriguez C, Harty P, Boykin J, Keith D, et al. The Effect of Breakfast Consumption on Afternoon Resistance Training Performance in Habitual Breakfast Consumers and Non-Consumers. *Journal of the International Society of Sports Nutrition*. 2023;20:2235311.
6. Siedler MR, Rodriguez C, Stratton MT, Harty PS, Keith DS, Green JJ, et al. Is Your Home Body Fat Scale Lying to You? Assessing the Longitudinal Validity of 15 Bioelectrical Impedance Analysis Devices. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.

7. Siedler MR, Rodriguez C, Stratton MT, Harty PS, Keith DS, Green JJ, et al. The Effect Of Body Composition Methodology On Resulting Energy Availability Assessments: 2348. *Medicine and science in sports and exercise*. 2023;55.
8. Siedler MR, Rodriguez C, Stratton MT, Harty PS, Keith D, Green J, et al. The Effect of Body Composition Methodology on Resulting Energy Availability Assessments. *International journal of exercise science: conference proceedings*. 2023;2:46.
9. Rodriguez C, Stratton MT, Siedler MR, Harty PS, Boykin JR, Green JJ, et al. Effects of a ready-to-drink thermogenic beverage on resting energy expenditure and hemodynamic variables. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.
10. Rodriguez C, Bongiovanni T, Rigobert ML, Tinsley GM. Tracking Fat-free Mass Changes Over a Competitive Season in Elite Soccer Players. *International journal of exercise science: conference proceedings*. 2023;2:3.
11. Rodriguez C, Bongiovanni T, Lacombe M, Tinsley GM. Tracking Fat-free Mass Changes Over A Competitive Season In Elite Soccer Players: 2516. *Medicine and science in sports and exercise*. 2023;55.
12. Rayfield KM, C.M V, Wohlgemuth KJ, Hare MM, Southall KE, Rodriggez C, et al. Muscle Quality: The Role of BMI and Body Fat Percentage. *Texas Tech University Science and Humanities Interdisciplinary Conference*. 2023.
13. Pickrell AH, Hare MM, Wohlgemuth KJ, Velasquez CM, Southall KE, Rodriguez C, et al. The Development of an Occupationally Specific Field Assessment to Predict Aerobic Capacity. *Texas Tech University Science and Humanities Interdisciplinary Conference*. 2023.
14. Parra ME, Florez CM, Prather JM, Vargas A, Soto B, Harrison A, et al. Changes in Metabolic Rate, Vital signs and Mood Responses Following Ingestion of a Commercially Available Thermogenic Supplement. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.
15. Nassar B, Saenz C, Tinsley G, Park K, Nickerson B. Evaluation of a Rapid 4-Compartment Model and Stand-Alone Methods in Hispanic Adults. *Journal of strength and conditioning research*. 2023;37.
16. Miller D, Prather JM, Florez CM, Vargas A, Soto B, Harrison A, et al. Effects of a Thermogenic Supplement on Metabolic, Hemodynamics, and Subjective Mood State Outcomes in Caffeine-habituated Young Males. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.
17. Mehra A, Saenz C, Tinsley G, Park K, Nickerson B. Deuterium Oxide Validation of Bioimpedance Total Body Water Estimates in Hispanic Adults. *Journal of strength and conditioning research*. 2023;37.
18. Hays HM, Azar PS, Kang M, Tinsley G, Wijayatunga NN. Effects of Time-Restricted Eating Combined with Exercise on Body Composition: A Systematic Review and Meta-Analysis. *Current Developments in Nutrition*. 2023.
19. Harty PS, Rodriguez C, Stratton MT, Siedler MR, Boykin JR, Keith DS, et al. Beneficial impact of a thermogenic energy drink on measures of perceived energy, focus, concentration, alertness, and mood. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.
20. Harrison C, Tinsley G, Hollub Secrest A, Wilborn C, Taylor L. Agreement Between Body Mass Index and Percent Body Fat in Resistance Trained Men and Women. *International journal of exercise science: conference proceedings*. 2023;2:36.
21. Gukhool PJ, Hare MM, Wohlgemuth KJ, Velasquez CM, Southall KE, Rodriguez C, et al. Assessing Changes in Body Fat Percentage and Aerobic Capacity in Police Recruits Throughout a Training Academy. *Texas Tech University Science and Humanities Interdisciplinary Conference*. 2023.
22. Florez CM, Tinsley G, Secrest AH, Wilborn C, Taylor L. Agreement Between Body Mass Index And Percent Body Fat In Resistance Trained Men And Women: 1148. *Medicine and science in sports and exercise*. 2023;55.
23. Florez CM, Prather JM, Vargas A, Soto B, Harrison A, Miller D, et al. Influence of a Commercially Available Thermogenic Dietary Supplement on Basal Metabolic Rate, Hemodynamics, and Mood Responses in Caffeine-habituated Young Females. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.
24. Florez C, Prather J, Ross A, Vargas A, Cabezas J, Harrison A, et al. Agreement of Body Composition Estimates in Collegiate Baseball Players Measured by DSM-BIA and DXA Following a Resistance Training Intervention. *Journal of strength and conditioning research*. 2023;37.

25. Florez C, Miller D, Parra M, Davis J, Prather J, Harrison A, et al. Comparative Differences of Amino Acid Appearance, With and Without Probiotic Ingestion. *Journal of the International Society of Sports Nutrition*. 2023;20:2235311.
26. DeHaven G, Siedler MR, Rodriguez C, White S, Brojanac A, Tinoco E, et al. Body Fat Percentage and Hormonal Intrauterine Device Use Are Independently Associated with Self-Reported Menstrual Regularity in Young Adult Females. *International journal of exercise science: conference proceedings*. 2023;2:14.
27. Davis J, Florez C, Prather J, Zaragoza J, Parra M, Tinsley G, et al. Effects of the Probiotic *Lactobacillus Acidophilus* on Acute, Subacute, and Sustained Lactose Tolerance in Healthy Adults. *Journal of the International Society of Sports Nutrition*. 2023;20:2235311.
28. Brojanac AP, Tinsley GM, Siedler MR. Gendered Dietary Supplements: Does the Marketing Reflect Different Formulations? *International journal of exercise science: conference proceedings*. 2023;2:19.
29. Andraos A, Torres M, Ornelas D, Heredia J, Khartabil A, Islas M, et al. The effects of bioimpedance spectroscopy electrode distance placement on body composition and total body water estimates in recreationally trained participants. *Journal of the International Society of Sports Nutrition*. 2023;Forthcoming.

Oral

1. Collegiate and Professional Sports Dietitians Association 15th Annual Conference. "Body Composition Testing and Variability in Practice: Utilization, Interpretation, and Guidance" Invited Speaker. Approximate attendance: 400. Duration: 1 hour. Minneapolis, MN

Grant

1. Smartphone-based Digital Anthropometry and Body Composition Estimation using 3-Dimensional Optical Imaging (A24-0048-001). Prism Labs. Role: Lead Principal Investigator. Amount: \$35,000 (100% credit)
2. Chronic Thermogenic Dietary Supplement Consumption: Effects on Body Composition, Anthropometrics, Metabolism, and Subjective Variables (A23-0089-001). EHP Labs. Role: Lead Principal Investigator. Amount: \$85,378 (100% credit)
3. Digital Anthropometry and Body Composition Estimation Using a Generation 2 Prototype 3-Dimensional Optical Scanner (A22-0305-001). Prism Labs. Role: Lead Principal Investigator. Amount: \$32,756 (100% credit)
4. Metabolic Effects of a Novel Ready-to-drink Thermogenic Beverage (A22-0092-001). EHP Labs. Role: Lead Principal Investigator. Amount: \$28,401 (100% credit)
5. Evaluation of Novel Beverage Formulations for Hydration Enhancement in Humans (A21-0284-001). 8 POiNT, LLC. Role: Lead Principal Investigator. Amount: \$35,000(100% credit)

Zhang, Fangyuan

Publication:

Wang T, Tian S, Tikhonova EB, Karamyshev AL, Wang JJ, Zhang F, Wang D. The Enrichment of miRNA-Targeted mRNAs in Translationally Less Active over More Active Polysomes. *Biology (Basel)*. 2023 Dec 18;12(12):1536. doi: 10.3390/biology12121536. PMID: 38132362; PMCID: PMC10741098.

Zu, Yujiao

Publication

Peer-reviewed article

1. Zhang G, Zhang M, Pei Y, Qian K, Xie J, Huang Q, Liu S, Xue N, Zu Y, Wang H. Enhancing stability of liposomes using high molecular weight chitosan to promote antioxidative stress effects and lipid-lowering activity of encapsulated lutein in vivo and in vitro. *International Journal of Biological Macromolecules*. 2023 Sep 13:126564. <https://doi.org/10.1016/j.ijbiomac.2023.126564>
2. Zu Y, Pahlavani M, Ramalingam L, Jayarathne S, Andrade J, Scoggin S, Festuccia WT, Kalupahana NS, Moustaid-Moussa N. Temperature-Dependent Effects of Eicosapentaenoic Acid (EPA) on Browning of Subcutaneous Adipose Tissue in UCP1 Knockout Male Mice. *International Journal of Molecular Sciences*. 2023 May 13;24(10):8708. <https://doi.org/10.3390/ijms24108708>

- Yavari M, Ramalingam L, Harris BN, Kahathuduwa CN, Chavira A, Biltz C, Mounce L, Maldonado KA, Scoggin S, Zu Y, Kalupahana NS. Eicosapentaenoic Acid Protects against Metabolic Impairments in the APP^{swe}/PS1^{dE9} Alzheimer's Disease Mouse Model. *The Journal of Nutrition*. 2023 Feb 1. ISSN 0022-3166. <https://doi.org/10.1016/j.tjnut.2023.01.030>

Presentation

Poster

- Nutrition 2023: American Society for Nutrition's Annual Meeting**, "Thermoregulation of glycolytic beige fat in UCP1 KO mice", Boston, MA, US, July 2023.

Grant

USDA NIFA

Title: Novel prebiotic nanoparticles to enhance tart cherry anthocyanin bioavailability and improve gut health in obesity. The goal of this project is to develop novel nanoparticles with prebiotic compounds to enhance the bioavailability of anthocyanins in tart cherry juice while improving gut health in an obese mouse model.

Jun. 2023 - May 2025

\$285,038

Role: PI

Co-PI: Naima Moustaid-Moussa

AHA AIREA

Title: The Role of Glycolytic Beige Fat in Atherosclerotic Cardiovascular Disease. The goal of this project is to determine the role of a novel uncoupling protein 1-independent glycolytic beige fat, which enhances whole-body thermogenesis and glucose utilization, during the development of atherosclerosis.

Apr. 2023 – Mar. 2025

\$154,000

Role: PI

Co-PI: Naima Moustaid-Moussa

USDA-NIFA REEU

Title: Nutrition Bench-to-Community Scholars at Texas Tech (Nutrition BEST) REEU

2021-2026

\$500,000

Role: Research Mentor

PI: Naima Moustaid-Moussa

Graduate Research Assistant Funding and Seed Grant from the College of Human Sciences TTU

Jan. 2024-Dec. 2024

\$5,000 fund and 1-year RA

Role: PI

Undergraduate Research Experience grant from the College of Human Sciences TTU

Mar. 2022 – Aug. 2023

\$2,000

Role: PI

Zumwalt, Mimi

Publication

Peer-referred article

- Degraded RNA from Human Anterior Cruciate Ligaments Yields Valid Gene Expression Profiles**
Megan N Ashton, Asha E Worsham, Matthew D Strawn, Geoffrey D Fisher, Cody J Perry, Matthew P Ferguson, Mimi Zumwalt, George W Brindley, Javad Hashemi, Hossein Mansouri, James R Slauterbeck, and Daniel M Hardy. *International Journal of Molecular Sciences (IJMS)* January 2023
- A Review of Recent Innovations in Cartilage Regeneration Strategies for the Treatment of Primary Osteoarthritis of the Knee: Intra-articular Injections.** Nicholas Householder, Kofi Agyare, Skyler Thipaphay, Akshay Raghuram, Mimi Zumwalt, MD. *Orthopaedic Journal of Sports Medicine (OJSM)* April 2023

Book

The Active Female: Health Issues throughout the Lifespan by McComb, Zumwalt & Fernandez-del-Valle Eds. (3rd edition Springer Nature) Chapters 1,4,11,13,14,15,16,17

1. **The Importance of Posture and Muscular Balance in the Body for Managing Skeletal Muscle Injuries in Active Females.** Abdurrahman Fayez Kharbat, Freedom Lee Xeros Ha, Mimi Zumwalt & Jacalyn J. Robert-McComb in *The Active Female* (2023)
2. **Reproductive Changes from Puberty to Menopause and the Effects of the Menstrual Cycle on Bone Formation and Bone Loss.** Brittany Dowling, Jacky J. Forsyth, Mimi Zumwalt & Jacalyn J. Robert-McComb in *The Active Female* (2023)
3. **Alternative Treatment Modalities for the Active Female with Musculoskeletal Pain.** Adin William Mizer, Stephen S. Rossettie, Mimi Zumwalt in *The Active Female* (2023)
4. **Considerations of Sex Differences in Musculoskeletal Anatomy Between Males and Females.** Kyla A. Petrie, Kimberly Burbank, Phillip S. Sizer, C. Roger James & Mimi Zumwalt in *The Active Female* (2023)
5. **Prevention and Management of Osteoporosis Through Exercise.** Jacky J. Forsyth, Alexis D. Rounds, Mimi Zumwalt in *The Active Female* (2023)
6. **Prevention and Management of Common Musculoskeletal Injuries in Skeletally Immature Female Athletes.** Mimi Zumwalt in *The Active Female* (2023)
7. **Prevention and Management of Common Musculoskeletal Injuries in the Adult Female Athlete.** Mimi Zumwalt in *The Active Female* (2023)
8. **Prevention and Management of Common Musculoskeletal Injuries in the Aging Female Athlete** Mimi Zumwalt in *The Active Female* (2023)

Presentation

Oral

1. Impact of the COVID Pandemic on Exercise Routines and Exercise. Kristin Huseman, MS2, Adilene Chapina-Guizar, MS2, Mimi Zumwalt, MD. TTUHSC SOM P3-2 Honors Project February 2023
2. Orthobiologics & Joints-Osteoarthritis Outlook. Grand Rounds TTUHSC Orthopaedic Surgery Department April 2023
3. Orthopaedic Sports Injury Cases. MS2s TTUHSC, September 2023
4. Upper Limb Orthopaedic Anatomy. TTUHSC MS1s, October 2023
5. Lower Limb Orthopaedic Anatomy. TTUHSC MS1s, October 2023
6. The Female Athlete. Grand Rounds Orthopaedic Surgery Department, TTUHSC October 2023
7. Steroids & Stimulants. Grand Rounds Orthopaedic Surgery Department, TTUHSC October 2023
8. Medical & Surgical Management of Knee Multi-ligament Injuries/Double Bundle ACLR Update Doctorate of Physical Therapy Course TTUHSC November 2023