DOME Publications in Journals, Books and Published Abstracts

*Indicates work related to medical education or with a medical student as a co-author


Brower GL and Stewart JA Jr. 2018, TNF-α mediated β1 integrin inactivation is a novel mechanism mediating left ventricular dilatation. The FASEB Journal 32(1 Supplement):414.6.


Erwin C, Dacso S (2018). Ethical and Legal Issues in Bioterrorism Events. TTU Journal of Bioterrorism and Biodefense. (Published)


*Kaur G, Dufour JM. 2018 An update on the School of Medicine’s Medical Student Research Program at the Texas Tech University Health Sciences Center. The Southwest Respiratory and Critical Care Chronicles; 6(24): 1. (Published)


Garcia JO, Kaur G. Developing online interactive embryology modules and determining their effectiveness in improving first year medical student comprehension. 30th Annual TTUHSC Student Research Week (March 21-23rd, 2018). (Published)


*Wright K, Gabrilska R, Daniel H, Kaur G, Dufour JM. Determining the importance of macrophages in mediating Sertoli cell allo- and xeno-graft survival. 30th Annual TTUHSC Student Research Week (March 21-23rd, 2018). (Third Prize) (Published)

Greer RH, Kaur G, Tomison MD, Shen CL, Dufour JM. Effect of early type 2 diabetes on male fertility. 10th Annual Undergraduate Research Conference (March 27-28th, 2018). (Published)

*D*aniel H, Gabrilska R, Wright K, Kaur G, Dufour JM. The role of iNOS in Sertoli cell allotransplantation. 10th Annual Undergraduate Research Conference (March 27-28th, 2018). (Published)


**DOME Publications In Press**

*Indicates work related to medical education or with a medical student as a co-author*


*Erwin C (2018). Ethics of Opioid Treatment Agreements for Pain Control. TTU Ethics Journal. (Submitted)


**DOME Faculty Grants to Support Scholarly Work, Submitted and/or Funded**

*Indicates work related to medical education or with a medical student as a co-author

National Institutes of Health (NIH), R21, 2017, Dufour JM (Principal Investigator), **Kaur G** (Co-Investigator), **Brower GL** (Collaborator). Use of immune privileged Sertoli cells to deliver therapeutic proteins to treat complications associated with diabetes. $275,000 (Direct Cost), $418,969 (Total Amount). (Not Funded)

National Institutes of Health (NIH), 2017, **Erwin CJ (Supporting Role)**, Philibert R (Principal Investigator), Quantitative DNA Methylation Biomarkers for Monitoring Alcohol Abstinence. (Funded)

*John P. McGovern, MD Foundation, December 10, 2015, **Erwin CJ**, Proposal for funding of the John P. and Katherine G. McGovern Center for Ethics, $3,000,000 (Total Amount). (Not Funded)

*John P. McGovern, MD Foundation, December 2015, **Erwin CJ**, Proposal for permanent funding of the Medical Humanities Certificate Program, $2,210,000 (Total Amount). (Not Funded)

*Texas Tech University-Texas Tech University Health Sciences Center Interprofessional, Interdisciplinary Proposal to the Humanities Center at Texas Tech University, February 2015, **Erwin CJ**, Southwestern Narratives of Illness and Health, $50,000 (Total Amount). (Not Funded)

*John P. McGovern Foundation, Medical Humanities Certificate Program, 2013 - Present, **Erwin CJ**, $415,000 (Total Amount). (Funded)

Jones, K. (Co-Principal Investigator), **Sobel, A. L.** (Principal Investigator), Dallas, T. (Co-Principal Investigator), Li, C. (Co-Principal Investigator), Lie, Y.-C. (Co-Principal Investigator), Delucia, P. (Co-Principal Investigator), Systems Engineering And Analysis of MEDEX Spot Unmanned Micro Clinic, $5482,084 (Total Amount). (Currently Under Review)

Ted Nash Long Life Foundation, December 2018- November 2019, **Kaur, G.** (Co-Investigator), Dufour, J. M. (Principal Investigator), Reducing cardiovascular risks using Sertoli cell-based gene therapy, 5% effort, $100,000 (Direct Cost), $100,000 (Total Amount). (Funded)
Jasper & Jack Wilson Foundation, December 2018 - November 2019, Kaur, G. (Co-Investigator), Dufour, J. M. (Principal Investigator), Genetically Engineered Sertoli Cells as Vehicle Cell Based Gene therapy, 3% effort, $50,000 (Direct Cost), $50,000 (Total Amount). (Funded)

Laura W. Bush Institute for Women's Health and UMC Health System, Women's Health Seed Grant, November 2017 - October 2018, No Cost Extension till August 2019, Kaur, G. (Principal Investigator), Dufour, J. M. (Co-Investigator), Shen, C. L. (Co-Investigator), Gail, C. (Co-Investigator), Utilizing tocotrienols to prevent the formation of islet amyloid deposits- a novel treatment for diabetes mellitus, $20,000 (Direct Cost), $20,000 (Total Amount). (Funded)

South Plains Foundation (SPF), Seed Grant, September 2017 - August 2018, Kaur, G. (Principal Investigator), Dufour, J. M. (Co-Investigator), Examining the mechanism of porcine Sertoli cell survival to improve xenotransplantation, $15,000 (Direct Cost), $15,000 (Total Amount). (Funded)

CH Foundation, Kaur, G. (Principal Investigator), Examining the beneficial effects of tocotrienols in preventing islet amyloid formation - a novel approach to improve islet cell transplantation, $60,000 (Direct Cost), $60,000 (Total Amount). (Submitted but not funded)

National Institutes of Health (NIH), R01 2018. Kaur, G. (Co-Investigator), Dufour, J. M. (Principal Investigator), Brower, G. L. (Co-Investigator), Use of immune privileged Sertoli cells to deliver insulin and C-peptide to treat cardiovascular complications associated with diabetes, 20% effort, $1,000,000 (Direct Cost), $1,530,000 (Total Amount). (Submitted but not funded)

2016 - Present, Sobel, A. L. (Co-Investigator), Dent, L. (Principal Investigator), Dunham (Other), Peace Corps Prep Program for TTU and TCUHSC. (Funded)

*CH Foundation, 2017 - 2018, Hirshorn-Taylor, R. (Principal Investigator), Sobel, A. L. (Co-Investigator), DeCesaro, G. D. (Co-Investigator), Davis, T. (Co-Investigator), Arts in Medicine Grant: Remember This? A Participatory Performance Experience, $20,000 (Total Amount). (Funded)

*VentureWell Entrepreneurial Faculty Grant, 2017 - 2018, Sobel, A. L., Civil-Military Pre-hospital Care Innovation Curriculum: A Scalable Pilot Program, $20,000 (Total Amount). (Funded)

*Texas Tech University SEED Grant for Interdisciplinary Research, 2016, Kruczek C, Dust in the Wind. (Not Funded)

*CH Foundation, 2016, Kruczek C, GARDENS (Growth, Awareness, Reading, Diversity, Environment, Nutrition, Science). (Not Funded)


Trotter, DRM (Project Director), Jones, BG (Project Co-Director), Littlefield, A, Van Allen, J, Sheets, R, Bab F, Onger, F, Popp, RL, Tenner, T. West Texas Primary Care Behavioral Health Collaborative: A comprehensive approach to disseminating the PCBH model throughout the South Plains, Submitted for a HRSA Primary Care Enhancement and Training (PCTE) Grant, $2,000,000 (Not funded)
Other Scholarly Activity, by DOME faculty, including conference presentations, invited talks, manuscript/abstract reviewing

*Indicates work related to medical education or with a medical student as a co-author

Brower

**Invited Presentations:**


**Accepted Conference Presentations:**


*Brower GL* and Stewart JA Jr. TNF-α mediated β1 integrin inactivation is a novel mechanism mediating left ventricular dilatation. Oral presentation at the Experimental Biology 2018 Meeting in San Diego, California, April 24, 2018.


**Manuscript reviewer:**

American Journal of Physiology-Heart and Circulatory Physiology
American Journal of Physiology - Regulatory, Integrative and Comparative Physiology
Arteriosclerosis, Thrombosis, and Vascular Biology
Journal of Cardiac Failure
Journal of Molecular and Cellular Cardiology
Journal of the American Heart Association
*Medical Education Online

**Member of research grant study sections (e.g. NIH, AHA Western Review Consortium):**


**Consultant to government agencies, private industry, or other organizations**

Diabetes Action Research and Education Foundation, Medical Advisory Board, 2006 – Present

**Officer or committee member of scientific or professional organizations or program organizer**

American Physiological Society Cardiovascular Section Nominating Committee – 2015-2018
*American Physiological Society Institute on Teaching and Learning Workshop Organizing Committee – 2016-2018
*American Physiological Society Teaching Section Steering Committee – 2017-2019
*American Physiological Society Arthur C. Guyton Physiology Educator of the Year Award Selection Committee – 2017-2019 (Chair - 2018)

Cobbs

**Presentations/Exhibits/Productions**

Jones BG, Cobbs L. A deep dive into social mission for students and learning communities. Podium presentation, Learning Communities Institute, New York City, September 2018.

Erwin

**Presentations/Exhibits/Productions**

Scholarly Activity 2018-2019

*Podium: Erwin, C.J. Ethical Issues in the Epigenetics of Addiction, Grand Rounds in Ethics, University of Texas Southwestern Medical Center, November 2018. (Other)

*Podium: Erwin, C.J. Research Ethics, SPH Lecture, Texas Tech University School of Public Health, August 2018. (Other)

*Grand Rounds in Ethics: Erwin, C.J. The Goldwater Rule, Amarillo, Texas, August 2018. (Other)

*Podium: Erwin, C.J. The Goldwater Rule, May 2018. (Other)

*Panel Presentation: Erwin, C.J. An Interactive Conversation about the State of the Art, Life of the Practitioner and the Care of Patients and Families, Medicine and Religion Conference, St. Louis, Missouri, April 2018. (Other)

*Panel Presentation: Erwin, C.J. An Interactive Conversation about the State of the Art, the Life of the Practitioner and the Care of Patients and Families., Medicine and Religion Conference, St. Louis, Missouri, April 2018. (Other)

*Grand Rounds in Ethics Series: Erwin, C.J. Utilitarianism and Deontology, February 2018. (Other)

Kaur

Presentations/Exhibits/Productions

*Lee VH, Kaur G, Brower G. Integration of ultrasound sessions into a Clinically Oriented Anatomy Curriculum: Lessons learned regarding timing. 2018 Sixth World Congress Ultrasound in Medical Education (Winston-Salem, NC, September 13-16 2018). (Accepted for poster presentation but meeting cancelled due to hurricane Florence).

Kaur G. Improving pancreatic islet cell survival by modulating the immune response and preventing amyloid formation. TTU Obesity-Research Cluster Seminar Series, (Lubbock, TX, March 5th 2018). Invited podium presentation

Editor or Member of Editorial Board

Editorial Board Member- Transplant Research and Risk Management, 2018-Present.

Manuscript Reviewer


Mediators of Inflammation, Ad-Hoc, Manuscript Reviewer, 2018.


Indian Journal of Medical Research, Ad-Hoc, Manuscript Reviewer, 2017 - Present.

Kruczek

Presentations/Exhibits/Productions


Extramural Professional Service


Pelley

Invited Presentations

*Pelley, J.W. Applied metacognition: Self-directed learning applied to multiple modalities, 2018 Advancing Teaching and Learning Conference, Texas Tech University Teaching, Learning, and Professional Development Center, Lubbock, TX, March 2018

*Pelley, J.W. Workshop on Concept Mapping. Wayne State University School of Medicine, Detroit, MI. July 2018.

*Pelley, J.W. Introduction to the Expert Skills Program. Wayne State University School of Medicine, Detroit, MI. July 2018.

*Pelley, J.W., The Neurobiology of Learning, University of Texas at Rio Grande Valley School of Medicine, July 2018.

Web-Based Scholarly Products
*Expert Skills Program at Texas Tech. A professionalism program that approaches learning skills as clinical skills that can be developed through the application of Deliberate Practice. For more information, visit the SuccessTypes Medical Education website. Introductory video at https://youtu.be/UDxlVmKFBoo.
*SuccessTypes Medical Education website. Updated to include free access to SuccessTypes in Medical Education book and to the Expert Skills Program at Texas Tech (ESP). Links to useful readings in medical education as well as links for counselors working with at-risk medical students.

Popp
Presentations/Exhibits/Productions

Pressley
Presentations/Exhibits/Productions
*Marshall University School of Medicine, “Exam Blueprinting to Enhance Fairness, Rigor, and Reproducibility,” April 10, 2018 (Invited)

Extramural Professional Service
Chair of Career Opportunities in Physiology Committee, American Physiological Society, Officer of Professional Organization, 2016 - 2018.
Training and Career Opportunities Subcommittee, Federation of American Societies of Experimental Biology, Committee Member of Scientific Organization, 2013 - 2018
Institute for Teaching and Learning, American Physiological Society, Co-organizer, 2018.

Schneider
Invited Presentations
*Minimizing Stress in Anatomy, Honors Lunch Discussion seminar:
Values-Based Culture and You, TTUHSC SGA
What’s a Telomere Got to Do with It?, Invited Speaker at Laura Bush Symposium, Dallas TX
An Insight into Aging and Longevity TTUHSC High School Science Camp

Poster Presentations:
*Smith J, Hua H, Tates I, Schneider BL. “SIR2 and Cell Growth Can Promote Longevity or Aging.” 2018 TTUHSC Student Research Week, Lubbock, TX

Manuscript reviewer
Cell Cycle
G3: Genes, Genomes and Genetics
Sobel

**Presentations/Exhibits/Productions**


**Patents**

Provisional patent filing titled “BIOMIMETIC INFECTION SENSING CATHETER COATING USING REAL TIME NONINVASIVE ACOUSTICAL ANALYSIS” with application number 62/458819 has been filed with the USPTO.

**Extramural Professional Service**

Aerospace Medicine Human Factors Association, President of Professional Organization, 2018-Present.
Aerospace Medicine Human Factors Association, Officer of Professional Organization, 2017 - Present.
Journal of Biosecurity, Biosafety, and Biodefense Degruyter and Kudos, Texas, Member of Editorial Board, 2017 - Present.
Journal of Data Enabled Discovery and Applications, Associate Editor, 2017 - Present.
Journal of Biosecurity, Biosafety, and Biodefense Law, Texas Tech University Law Publishing, Member of Editorial Board, 2015 - Present.
Aerospace Medical Association Scientific Program Committee, Committee Member of Scientific Organization, 2008 - Present.
World Federation of Scientists, Permanent Monitoring Panel-Mitigation of Terrorist Acts, Committee Member of Scientific Organization, 2008 - Present.
World Federation of Scientists, Permanent Monitoring Panel-One Health and Pollution, Committee Member of Scientific Organization, 2018- Present.

Webster

**Presentations/Exhibits/Productions**


**Manuscript reviewer**

*Anatomical Sciences Education, Regular, Manuscript Reviewer, 2017 - Present*
*Medical Education Online, Regular, Manuscript Reviewer, October 2013 - Present*
*Medical Science Educator, Regular, Manuscript Reviewer, October 2013 – Present; 8 MS reviewed in 2018.*

**Abstract review:**

*International Association of Medical Science Educators (IAMSE), Regular meeting, Reviewer, 11 abstracts reviewed.
*SGEA-7 abstracts reviewed.
*AAMC Lead, Serve and Learn mtg., 8 abstracts reviewed.

Williams

**Presentations/Exhibits/Productions**


*Podium: Williams, S. C., Nelson, B. Incorporating on-line student directed complementary/alternative educational resources in medical education: the experience of two schools, Southern Group on Educational Affairs 2018, AAMC SGEA, Jackson, MS, April 2018. (Other)

**Jones**

**Invited Presentations**


* **Jones BG**. Overview of the NRMP Waiver Program for Accelerated Pathway Programs. Grand Rounds Presentation, Medical College of Wisconsin, Central Wisconsin Campus, Wausau WI, October 30, 2018.


**Presentations at Professional Meetings**


* Lloyd N, **Jones BG**. A Student-Led Arts in Medicine Elective for M1 and MS2 Students. Submitted to STFM Medical Student Education Conference, Portland, February 2020.


*Jones BG. Patients, Physicians, & Populations (P3): A deep dive into social mission with a 1-week interblock course for first-year medical students. Podium Presentation. Beyond Flexner Conference, Atlanta, April 2018.


*Shou Ling Leong, MD; Betsy Jones, EdD; Daniel Schlegel, MD; Erin Cathcart, MPH, CPH; Shyla Arismendez, RN; Aaron Chen; Judy Dewitt; James Kent; Michael Partin. Key Steps in the Creation of a Successful 3-Year Accelerated MD Program: Voices of the Stakeholders. Oral presentation. STFM Conference on Medical Student Education, Austin, February 2018.

Manuscript & Abstract reviewer
*MedEdPortal, AAMC
*CAFM Educational Research Alliance (CERA), Research Survey Submissions
*Medical Education Online