



TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER™

School of Medicine

Faculty Research and Scholarly Activity

June 1, 2016 - December 31, 2018

Department: Medical Education

Campus: Lubbock

Research

References for Peer-Reviewed Publications

Published articles and case reports

1. Booth, R., McMurray, J., Regan, S., Kothari, A., Donelle, L., McBride, S., Sobel, A. L., Hall, J., Fraser, R., Foisey, L. (2017). Social Media Technology and Public Health in Ontario: Findings from a Planning Meeting Exploring Current Practices and Future Research Directions. *Nurs Leadersh (Tor Ont)*, 30(2), 71-83.
2. Colmer-Hamood, J. A., Dzvova, N., Kruczek, C., Hamood, A. N. (2016). In Vitro Analysis of *Pseudomonas aeruginosa* Virulence Using Conditions That Mimic the Environment at Specific Infection Sites. *Prog Mol Biol Transl Sci*, 142, 151-91.
3. Qaisar, U., Kruczek, C., Azeem, M., Javaid, N., Colmer-Hamood, J. A., Hamood, A. N. (2016). The *Pseudomonas aeruginosa* extracellular secondary metabolite, Paerucumarin, chelates iron and is not localized to extracellular membrane vesicles. *J. Microbiol.*, 54(8), 573-81.
4. Smith, J., Manukyan, A., Hua, H., Dungrawala, H., Schneider, B. L. (2016). Synchronization of Yeast. *Methods Mol. Biol.*, 1524, 215-242.

Books, chapters in books, and monographs

1. Sobel, A. L. (2017). Enhancing Cybersecurity in the Health Informatics Environment. *In: Nursing Informatics for the Advanced Practice Nurse, 1st Edition*. McBride and Tietze (eds), Springer, New York.

References for Presentations/Abstracts

1. Brower, G. L., McDonald-Thomas, R., Tipton, V., Lee, V. H., Prabhu, F. R. Use of ultrasound for assess of liver measurement accuracy during early medical training., 2016 Institute on Teaching and Learning Workshop, American Physiological Society, Madison, Wisconsin, June 21, 2016.
2. Cobbs, L. Discussion of personal experience with perspective about the effects of gender roles and microaggressions on women in medicine., AMWA Student Group Lunch Meeting, American Medical Women's Association, Lubbock, Texas, February 2017.

3. Erwin, C. J. Population ethics during contingency and crisis., American Society for Bioethics and Humanities, Kansas City, Missouri, October 21, 2017.
4. Erwin, C. J. How can the humanities promote physician wellness integral to the social contract?, Academy for Professionalism in Healthcare, Chicago, Illinois, April 28, 2017.
5. Erwin, C. J., Dacso, S. Keynote Address: Ethical Challenges in Biosecurity., 16th Annual Global Biosecurity Symposium, Texas Tech University, Law School, Lubbock, Texas, April 21, 2017.
6. Erwin, C. J. PREDICT-HD: A 12-Year natural history of premanifest Huntington's Disease – Clinical Implications., Annual Meeting, Huntington Study Group, Nashville, Tennessee, November 3, 2016.
7. Erwin, C. J. Resilience and Spirituality, Texas Women Veterans Roll Call: Life Beyond the Oath, Lubbock, Texas, June 3, 2016.
8. Jackson, J. A., Andolsek, K. M., Schneider, B. L., Lee, V. H., Campbell, K. M., Rodriguez, J. E. Not all those who wander are Lost: Post-baccalaureate Pathways for success., 2016 SGEA Meeting, Southern Group on Educational Affairs (SGEA), 2016.
9. Jones, B. G., Mitchell, J. J., Lee, V. H. Using and assessing ultrasound to teach physical examination and diagnosis: a self-directed learning activity in the family medicine accelerated track (FMAT)., 4th World Congress on Ultrasound in Medical Education, September 2016.
10. Mathew, A., Eboh, N., Brower, G. L. Poster Presentation: PHACE in a crowd., Pediatric Hospital Medicine Conference, Chicago, Illinois, July 31, 2016.
11. Pressley, T. A., Brower, G. L., Lee, V. H., Fowler, J. C. Applying knowledge to practice: Use of clinical simulation during first-year medical physiology., Physiology 2016 - Joint Meeting, American Physiological Society and The Physiological Society, Dublin, Ireland, July 2016.
12. Pressley, T. A. Educational Leadership: Benefits of Stepping Outside the Classroom., American Physiological Society Institute of Teaching and Learning, June 24, 2016.
13. Rajan, A., Smith, J., Hua, H., Schneider, B. L. Influence of pH on yeast cell size and aging: It's pretty basic., Student Research Week, Texas Tech University Health Sciences Center, Lubbock, Texas, 2016.
14. Rice, G., Philips, B., Lee, V. H. Point of care ultrasound use by EMS personnel to perform the FAST exam during trauma incidents., 4th World Congress on Ultrasound in Medical Education, September 2016.
15. Smith, J., White, J., Hua, H., Rajan, A., Bates, B., Schneider, B. L. A Sizeable Role for the Cell Cycle in Longevity., 2016 Cold Spring Harbor Mechanisms of Aging Meeting, Cold Spring Harbor, New York, 2016.
16. Smith, J., White, J., Hua, H., Rajan, A., Bates, B., Schneider, B. L. A sizeable contribution: Cell cycle controls modulate yeast lifespan., Student Research Week, 2016.
17. Smith, J., Rajan, A., Shah, A., Hua, H., Karukote, A., Schneider, B. L. Under Pressure: Modulation of stress affects lifespan., Student Research Week, Texas Tech University Health Sciences Center, Lubbock, Texas, 2016.
18. Sobel, A. L. Additive Manufacturing and Collaborative Learning for Pre-hospital Care Environment., Future Technologies Conference, Vancouver, British Columbia, Canada, 2017.
19. Sobel, A. L. Keynote Speaker, Veterans Day Celebration, Talkington High School for Young Women Leaders, Lubbock, Texas, 2017.

20. Sobel, A. L. Addressing Emerging Cyberphysical Security Challenges and the Microgrid., NextGrid 2017, Texas Renewable Energy Industries Alliance, Georgetown, Texas, October 2017.
21. Sobel, A. L. Application of the BREEZE methodology from Arts and Theatre to Breast Cancer Survivors., 5th Annual Gender-Specific Medicine & Women's Health Symposium, Texas Tech University Health Sciences Center, Lubbock, Texas, September 21, 2016.

Funded Grants

Extramural awards

Local but not TTUHSC

1. CH Foundation, 2017 - 2018, Hirshorn-Taylor, R. (Principal), 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).

State and/or regional

1. Substance Abuse and Mental Health Services Administration (SAMHSA); Screening, Brief Intervention and Referral to Treatment (SBIRT) Health Professions Student Training Grant, 2015 - 2018, Jones, B. G., Trotter, D., Littlefield, A., Babb, F., Onger, F. A., Popp, R. L., Sheets, R. E., Williams, S. C., Hampsten, E., Sponsel, C. W., RESeT West Texas: Rural Education for SBIRT in West Texas., \$945,000 (Total Amount).
2. Texas Higher Education Coordinating Board, 2014 - 2016, Jones, B. G., Cook, R. L., Trotter, D., Peck, E. K., Culberson, J. W., Babb, F., Kirkland, J. L., Benton, T. J., Family Medicine Accelerated Track: A Primary Care Innovation, \$229,493 (Total Amount).

National and/or international

1. HRSA Primary Care Enhancement and Training (PCTE) Grant, 17-3720452, 2017 - 2018, Jones, B. G., Trotter, D., Cook, R. L., Onger, F. A., Allen, C., Morales, F. G., Williams, S. C., Tenner, T. E., TRUST Supplement: Medication-Assisted Treatment for SUD, \$54,895 (Total Amount).

Medical Education Research

References for Peer-Reviewed Publications

Published articles and case reports

1. Cangiarella, J., Fancher, T., Jones, B. G., Dodson, L., Leong, S. L., Hunsaker, M., Pallay, R., Whyte, R., Holthouser, A., Abramson, S. B. (2016). Three-Year MD Programs: Perspectives From the Consortium of Accelerated Medical Pathway Programs (CAMPP). *Acad Med*, 92(4), 483-490.
2. Erwin, C. J., Tansey, J. (2017). Overview of Ethics in Psychiatry. *Scientific American Psychiatry [online]*.
3. Jones, B. G., Berk, S. (2016). The Family Medicine Accelerated Track at Texas Tech University Health Sciences Center. *Tex Med*, 112(2), 62-7.
4. Leong, S. L., Cangiarella, J., Fancher, T., Dodson, L., Grochowski, C., Harnik, V., Hustedde, C., Jones, B. G., Kelly, C., Macerollo, A., Reboli, A. C., Rosenfeld, M., Rundell, K., Thompson, T., Whyte, R.,

Pusic, M. (2017). Roadmap for creating an accelerated three-year medical education program. *Med Educ Online*, 22(1), 1396172.

5. Song, M. M., Jones, B. G., Casanova, R. A. (2016). Auditing sex- and gender-based medicine (SGBM) content in medical school curriculum: a student scholar model. *Biol Sex Differ*, 7(Suppl 1), 40.

Books, chapters in books, and monographs

1. Erwin, C. J. (2017). Genetic Testing. *In: Macmillan Interdisciplinary Studies: Philosophy series; Philosophy of Medical Ethics Volume*. Klugman, Schwartz (eds), MacMillan Publishing, Cengage Learning, Farmington Hills, MI.
2. Pressley, T. A., Brower, G. L., Lee, V. H., Fowler, J. C. (2016). Applying knowledge to practice: Use of clinical simulation during first-year medical physiology., Dublin, Ireland.

References for Presentations/Abstracts

1. Brower, G. L., McDonald-Thomas, R. Poster Presentation: Use of ultrasound for assess of liver measurement accuracy during early medical training., Teaching and Learning Workshop, American Physiological Institute, Madison, Wisconsin, June 21, 2016.
2. Cangiarella, J., Hunsaker, M., Jones, B. G., Hustedde, C., Pearce, K. Structural and Financial Challenges in Health Professions Education: The Consortium of Accelerated Medical Pathway Programs (CAMPP)., Beyond Flexner Conference, Miami, Florida, September 2016.
3. Cobbs, L., Stutz, K., Callaway, M. Pathways for match success: A case based boot camp for career advisors., Professional Development Conference, Association of American Medical Colleges, Group on Student Affairs, Careers in Medicine, and Organization of Student Representatives (AAMC-GSA-CiM-OSR), St. Louis, Missouri, 2016.
4. Cobbs, L., Vidarreta, B. L., Perrin, A., Alkul, S., Bruce, C. Perspectives on peer-assisted learning – Challenges and innovations., Professional Development Conference, Association of American Medical Colleges, Group on Student Affairs, Careers in Medicine, and Organization of Student Representatives (AAMC-GSA-CiM-OSR), St. Louis, Missouri, 2016.
5. Corwin, M., Popp, R. L., Perry, C. IPE, Brains, and Aphasia: Collaborative Learning between Medical, SLP, and OT Students, ASHA National Conference, ASHA, Los Angeles, California, November 10, 2017.
6. Erwin, C. J. Effects of epigenetic tests on patient autonomy and self-perception., International Association for Law and Mental Health, Prague, Czech Republic, July 2017.
7. Erwin, C. J. Discussion of Abraham Nussbaum’s “The Finest Traditions of My Calling.”, Medicine and Religion Conference, Houston, Texas, March 23, 2017.
8. Erwin, C. J. Ethical issues in the use of opioid treatment agreements., International Meeting, Association for Practical and Professional Ethics, Dallas, Texas, February 23, 2017.
9. Erwin, C. J., Sharma, P., Baronia, R., Abdali, A., Manning, S. M. Survey of patients’ perspective on opiate treatment agreement in the outpatient clinic., International Conference on Opioids, Boston, Massachusetts, June 2016.
10. Fornari, A., Poznanski, A., Szarek, J., Pelley, J. W. Metacognition: A Bridge Over Troubled Waters” and synopsis for workshop on active learning., Preconference workshop – 2016 IAMSE Annual Meeting, International Association of Medical Science Educators (IAMSE), Leiden, Netherlands, June 2016.

11. Jones, B. G., Trotter, D., Arismendez, S. W., Chen, A., DeWitt, J. P., Fields, D., Gagnon, D., Gomez, S., Hall, J., Walker, Z. Poster Presentation: Using and Assessing SBIRT (Screening, Brief Intervention, and Referral to Treatment) and MI (Motivational Interviewing) to Enhance Communication in Healthcare & Health Literacy in the Family Medicine Accelerated Track (FMAT)., Conference on Medical Student Education, Austin, Texas, February 2018.
12. Jones, B. G., Cook, R. L., Morales, F. G., Trotter, D. The Faculty Huddle: Preparing Faculty to Facilitate Monthly Learning Community Small Group Discussion Sessions., Conference on Medical Student Education, Austin, Texas, February 2018.
13. Jones, B. G., Trotter, D., Arismendez, S. W., Chen, A., DeWitt, J. P., Fields, D., Gagnon, D., Gomez, S., Hall, J., Walker, Z. Poster Presentation: Using and Assessing SBIRT (Screening, Brief Intervention, and Referral to Treatment) and MI (Motivational Interviewing) to Enhance Communication in Healthcare & Health Literacy in the Family Medicine Accelerated Track (FMAT)., International Conference on Communication in Healthcare (ICCH) & Health Literacy Annual Research Conference (HARC), Baltimore, Maryland, October 2017.
14. Jones, B. G., Lee, V. H., Williams, S. L. Preparing faculty to facilitate monthly learning community sessions within foundational sciences curriculum blocks., Learning Communities Institute, Birmingham, Alabama, September 2017.
15. Jones, B. G., Lee, V. H., Banks, H., Bellingham, D., Foster, D., Johnson, D., Loya, B., Ruiz, L. J., Walker, K., Wallace, M., Wai, R., Edwards, D. S., Mitchell, J. J. Poster Presentation: Using and Assessing Ultrasound to Teach Physical Examination and Diagnosis: A Self-Directed Learning Activity in the Family Medicine Accelerated Track (FMAT)., Southern Group on Educational Affairs, Association of American Medical Colleges (AAMC), Charlottesville, Virginia, April 2017.
16. Jones, B. G., Lee, V. H., Banks, H., Bellingham, D., Foster, D., Johnson, D., Loya, B., Ruiz, L. J., Walker, K., Wallace, M., Wai, R., Edwards, D. S., Mitchell, J. J. Poster Presentation: Using and Assessing Ultrasound to Teach Physical Examination and Diagnosis: A Self-Directed Learning Activity in the Family Medicine Accelerated Track (FMAT)., STFM Conference on Medical Student Education, Society of Teachers of Family Medicine (STFM), Anaheim, California, February 2017.
17. Jones, B. G., Trotter, D. Workshop Presentation: Small Group Teaching in the Post-Lecture Landscape., STFM Conference on Medical Student Education, Society of Teachers of Family Medicine (STFM), Anaheim, California, February 2017.
18. Jones, B. G., Lee, V. H., Banks, H., Bellingham, D., Foster, D., Johnson, D., Loya, B., Ruiz, L. J., Walker, K., Wallace, M., Wai, R., Edwards, D. S., Mitchell, J. J. Using and Assessing Ultrasound to Teach Physical Examination and Diagnosis: A Self-Directed Learning Activity in the Family Medicine Accelerated Track (FMAT)., World Conference on Ultrasound in Medical Education (WCUME), Lubbock, Texas, September 2016.
19. Jones, B. G. Facilitating Small Group Discussions., 2nd Biannual American Physiological Society Institute on Teaching and Learning, Madison, Wisconsin, June 2016.
20. Leong, S. L., Jones, B. G., Schlegal, D., Cathcart, E. The Faculty Huddle: Preparing Faculty to Facilitate Monthly Learning Community Small Group Discussion Sessions.Key Steps in the Creation of a Successful 3-Year Accelerated MD Program: Voices of the Stakeholders., Conference on Medical Student Education, Austin, Texas, February 2018.
21. Pelley, J. W. Creating Effective Application Exercises for Basic Sciences., Alabama College of Osteopathic Medicine, Dothan, Alabama, October 2016.

22. Pelley, J. W. Developing a Level 1 Brain., Alabama College of Osteopathic Medicine, Dothan, Alabama, October 2016.
23. Pelley, J. W. The Neurobiology of Learning., Wright State University School of Medicine, Dayton, Ohio, October 2016.
24. Pelley, J. W. Concept Mapping., University of Texas at Rio Grande Valley School of Medicine, Brownsville, Texas, June 2016.
25. Pelley, J. W. Learning Styles., University of Texas at Rio Grande Valley School of Medicine, Brownsville, Texas, June 2016.
26. Pelley, J. W. Metacognition – Buzzword or Salvation., Meharry Medical College, Nashville, Tennessee, June 2016.
27. Pelley, J. W. The Neurobiology of Learning., University of Texas at Rio Grande Valley School of Medicine, Brownsville, Texas, June 2016.
28. Popp, R. L., Rodriguez, A. I., Song, M. M., Rambaran, K. A., White, P., Stelter, L., Stansell, P., Granado, S., Sechrist, D. A School of Medicine Introduction to Interprofessional Education: Two IPEs in One., 2017 Innovations in Medical Education Conference, Keck School of Medicine, Los Angeles, California, February 2017.
29. Pressley, T. A., Brower, G. L., Lee, V. H., Fowler, J. C. (2016). Applying knowledge to practice: Use of clinical simulation during first-year medical physiology. *Proceedings of Physiology 2016 - Joint Meeting of the American Physiological Society and The Physiological Society*.
30. Sobel, A. L. Technology innovation in pre-hospital care undergraduate medical education pilot program., SGEA Conference, Southern Group on Educational Affairs (SGEA), Charlottesville, Virginia, 2017.
31. Trotter, D., Littlefield, A. K., Popp, R. L., Jones, B. G., Onger, F. A., Sheets, R. E., Haynes, J. L. Poster Presentation: RESeT West Texas: Teaching medical and psychology trainees to use SBIRT for rural communities., Annual Meeting, Collaborative Family Health Association, Charlotte, North Carolina, October 2016.
32. Trotter, D., Littlefield, A. K., Popp, R. L., Jones, B. G., Onger, F. A., Sheets, R. E., Haynes, J. L. RESeT West Texas: Teaching medical and psychology trainees to use SBIRT for rural communities., Collaborative Family Health Association Conference, Collaborative Family Health Association, Charlotte NC, October 2016.
33. Webster, D. R., Bradley, B., Popp, R. L., Carter, T. Effectiveness of an interprofessional simulated laboratory experience in enhancing understanding of the scientific method by first-year medical students, IAMSE National Conference, IAMSE, Burlington VT, June 2017.
34. Webster, D. R., Bradley, B., Popp, R. L., Carter, T. Effectiveness of a simulated laboratory experience in enhancing understanding of the Scientific Method by first-year medical students., 2016.
35. Webster, D. R., Pomeroy, B. Peer-led review sessions for USMLE Step 1 preparation., 2016.
36. Webster, D. R., Egan, A., Flynn, K., Hutson, J. C. Supplements designed to increase student satisfaction and confidence in a time-limited, Biochemistry, Molecular Biology, Cellular Biology, and Histology Medical School course., 2016.

Funded Grants

Extramural awards

Local but not TTUHSC

1. The CH Foundation, October 2015 - 2016, Williams, S. C., Decker, S. I. (Principal), Philips, B. (Co-Investigator), Merrill, E. S., Sancibrian, S. L. (Co-Investigator), Seifert, C. F. (Co-Investigator), Sridaromont, K. L. (Co-Investigator), Integrating Telehealth into Interprofessional Education in the Health Sciences, \$100,000 (Total Amount).

State and/or regional

1. 2016 - 2017, Cook, R. L., Jones, B. G., Trotter, D., Babb, F., Family Medicine Accelerated Track: A Primary Care Innovation, \$230,155 (Total Amount).
2. Texas Higher Education Coordinating Board, 2017 - 2018, Cook, R. L., Jones, B. G., Trotter, D., Babb, F., Family Medicine Accelerated Track: A Primary Care Innovation Supplement, \$98,725 (Total Amount).
3. Texas Higher Education Coordinating Board, 2014 - 2016, Cook, R. L., Jones, B. G., Trotter, D., Peck, E. K., Culberson, J. W., Babb, F., Kirkland, J. L., Benton, T. J., Family Medicine Accelerated Track: A Primary Care Innovation, \$229,493 (Total Amount).

National and/or international

1. HRSA Primary Care Enhancement and Training (PCTE) Grant, 17-372PCTE, 2016 - 2020, Jones, B. G., Trotter, D., Cook, R. L., Onger, F. A., Sheets, R. E., Morales, F. G., Babb, F., Wright, R., Williams, S. C., Tenner, T. E., Transforming Rural Healthcare Systems in West Texas: The Texas Tech TRUST Program, \$1,250,000 (Total Amount).
2. HRSA Primary Care Enhancement and Training (PCTE) Grant, 17-3720452, July 2017 - June 2018, Williams, S. C. (Co-Investigator), Jones, B. G. (Principal), Trotter, D., Cook, R. L., Onger, F. A., Allen, C., Morales, F. G., Tenner, T. E., TRUST Supplement: Medication-Assisted Treatment for SUD, Submitted for a HRSA Primary Care Enhancement and Training (PCTE) Grant Supplement, \$54,895 (Total Amount).
3. Substance Abuse and Mental Health Services Administration (SAMHSA), September 2015 - August 2018, Williams, S. C. (Co-Investigator), Trotter, D. (Principal), Jones, B. G. (Co-Investigator), Littlefield, A. (Co-Investigator), Babb, F. (Co-Investigator), Onger, F. A. (Co-Investigator), Popp, R. L. (Co-Investigator), Hampsten, E. (Co-Investigator), Sponsel, C. W. (Co-Investigator), Sheets, R. E., RESeT West Texas: Rural Education for SBIRT in West Texas, 5%, \$945,000 (Total Amount).