

Jayne Stewart Reuben, Ph.D.

EDUCATIONAL

POSTDOCTORAL RESEARCH FELLOWSHIP, University of Michigan Department of Pathology under the direction of Dr. Peter A. Ward, Ann Arbor, MI. October 2001-April 2006.

DOCTOR OF PHILOSOPHY, Pharmaceutical Sciences with specialization in Pharmacology and Toxicology under the direction of Dr. Karam F. A. Soliman, Florida Agricultural and Mechanical University (FAMU), Tallahassee, FL. August 2001.

BACHELOR OF ARTS, Chemistry, Converse College, Spartanburg, SC. May 1985. Minor: Biology. Related Field: Music Performance.

EXPERIENCE AND SKILLS

INSTRUCTIONAL ASSOCIATE PROFESSOR, Department of Medical Education, Texas A & M University School of Medicine, Dallas, Texas. Mentor medical students in biomedical and educational research and provide faculty development. August 2020-present.

INSTRUCTIONAL ASSOCIATE PROFESSOR, Department of Biomedical Sciences, Texas A & M University School of Dentistry, Dallas, Texas. Courses Taught: 6870 Physiology now 603 Human Structure, Function and Disease II, 7290 Dental Pharmacology, 8380 Medical Pharmacology, 9110 Applied Pharmacology, Cultural Competence and Evidence-Based Dentistry Small Groups. Summer Preclinical Enrichment Program. Course Director for all pharmacology courses: 7290 Dental Pharmacology now 701 Dental Pharmacology, 8380 Medical Pharmacology now 802 Medical Pharmacology, 9110 now 902 Applied Pharmacology and 5214 Clinical Pharmacology now OBIO 670 Clinical Pharmacology. Dental Hygiene 3340 Biomedical Sciences II-Biochemistry, Pulmonary Physiology. July 2017-present. **Improved pharmacology board scores from 2SD below the national average to 1-2STD above the national average. Envisioned the creation of excellence tracks in Teaching, Research and Leadership/Service. Increased student involvement in educational research and applications for national ADEA awards. Developed a metacognitive reflection exercise to help students improve their learning and performance. Preclinical Academic Tutor for dental students.**

DIRECTOR, INSTRUCTIONAL EFFECTIVENESS, Academic Affairs, Texas A & M University School of Dentistry, Dallas, Texas. Provide vision and leadership for curriculum development and delivery to enhance student learning and promote educational research. Support innovation in faculty development, assessment, and interprofessional education to improve student and patient outcomes. July 2017-January 2024. **Assisted faculty with rubric and selective course development. Developed several new courses for the integrated curriculum: Biological Foundations of Dentistry, Human Structure, Function and Disease I/II, Integrated Practice of Dentistry, Human Defenses and Responses to Infectious Disease. Evaluated faculty teaching effectiveness and mentored faculty according to best practices, increased faculty and student participation in educational scholarship.**

CLINICAL ASSOCIATE PROFESSOR and FOUNDING FACULTY MEMBER, Department of Biomedical Sciences, University of South Carolina School of Medicine Greenville (USCSOMG)/Greenville Hospital System University Medical Center (now PRIZMA HEALTH), Greenville, South Carolina. Curriculum Development and Pharmacology Instruction in M2 modules: Biomedical Principles (Course Director, 2013-4), Mind, Brain and Behavior; GI/Hepatic and EndoGynBreast. Instruction in M1 Modules: Molecular and Cellular Foundations of Medicine (2012), Structure and Function (2012-2013), Neuroscience (2013-7), Defenses and Responses (2013-7). September 2011-July 2017. **Developed successful student-centered, integrated curriculum (100% pass board rate and residency placement for charter class). Recruited additional faculty and served as diversity lead for faculty and department chair searches. Helped develop initial promotion and tenure guidelines for faculty.**

ASSISTANT PROFESSOR, Department of Biomedical Sciences, Baylor College of Dentistry/Texas A & M University System Health Science Center, Dallas, Texas. Courses Taught: 3440 Dental Hygiene Biomedical Sciences II, 5214 Clinical Pharmacology (Graduate/Resident), 7290 Dental Pharmacology, 8380 Medical Pharmacology, 9110 Applied Pharmacology. Course Director for 8380 Medical Pharmacology, 9110 Applied Pharmacology, August 2006-2009. Course Director for all Baylor Pharmacology Courses. May 2006-September 2011. **Worked with clinical faculty to maintain pharmacology board scores consistently 2-3 STD above the national average.**

INSTRUCTOR AND CURRICULUM ADVISOR, Stanley H. Kaplan Education Center, Tallahassee, FL and Ann Arbor, MI. Revised the MCAT Organic Chemistry and Biology Exercises and Assessments. Instructor in Organic Chemistry, Biology, Verbal Reasoning and Math for the DAT/OAT preparatory courses. Instructor for MCAT Biology, Organic Chemistry, and Orgo Edge, an introductory course in Organic Chemistry concepts. December 1996-December 2005. **Taught organic chemistry, designed organic chemistry paragraphs, vignettes and assessment questions for online delivery.**

RESEARCH/TEACHING ASSISTANT, Florida Agricultural and Mechanical University, Tallahassee, Florida. Lecturer in Pharmacology. Taught basic pharmacological principles to fourth-year pre-pharmacy and graduate students. Spring 2000. Taught molecular biology techniques to pre-pharmacy students. Tutored pre-pharmacy students in Organic Chemistry. Trained undergraduate science and pharmacy students in routine cellular biological and molecular techniques. September 1993-August 2001.

FIELD TECHNICAL REPRESENTATIVE, Ortho Diagnostic Systems, Inc. Raritan, New Jersey. Provided technical support for the 1992 HCV 2.0 launch in national blood banks, clinical labs, and the American Red Cross. Installed and inspected the instrumentation and software for the HCV 2.0 ELISA test system. Trained lab personnel in software and instrumentation usage. Validated software for FDA inspection and provided troubleshooting assistance for technical difficulties. February 1992-June 1993.

BIOLOGIST, Neuroimmunology Branch, The National Institute of Neurological Disease and Stroke, National Institutes of Health. Bethesda, MD. Studied retroviral (HTLV-I, HTLV-II) involvement in Multiple Sclerosis, Tropical Spastic Paraparesis, and related neurological diseases. Assessed immune cell surface expression and growth using immunofluorescence and cytofluorography and radioisotope incorporation. Evaluated retroviral protein expression using PCR, Restriction Fragment Polymorphism, Western blots, and Radiolabeled probes. Purified and sequenced retroviral nuclear proteins. Established long-term human CTL, T-cell and B-cell lines for use in cytotoxic lymphocyte and experimental drug assays. December 1987-December 1990.

LABORATORY TECHNICIAN, Electro-Nucleonics, Inc. Columbia, MD. Planned and conducted animal immunizations, prepared antigen for immunization, performed small animal surgery for antibody and ascites production. Conducted fusions to form monoclonal hybridomas against the HIV-1 virus and screened the resulting cell lines using ELISAs, RIAs, protein purification assays, and antibody biotinylation techniques. October 1985-December 1987.

UNDERGRADUATE RESEARCHER, Converse College, Spartanburg, SC. Investigated the reaction kinetics of ortho- and para-substituted dinitrobenzene derivatives. May 1984- May 1985.

TEACHING ASSISTANT, Converse College Study Center. Tutored students in introductory and advanced science courses including organic and inorganic chemistry, physical chemistry, quantitative analysis, zoology, anatomy, and embryology. Served as a reserve tutor for calculus and Latin. September 1984-May 1985.

INTERNSHIPS

RESEARCH TRAINEE, Miami VA Medical Center, Miami, FL. Research. Investigated the regulation of inositol monophosphatase activity by changes in osmolality and changes in cell volume in primary astrocyte and C6 glioma cultures. Techniques used include Northern Blot, Lowry protein assay, inositol transport and various kinetic assays. August 1996-February 1998.

SUMMER INTERNSHIP, 3M, Saint Paul, MN. Assisted in the development of an *in vitro* test to screen new adhesives for skin irritation and inflammation. Established primary keratinocyte cultures and tested for the presence of inflammatory cytokines using ELISA and RT-PCR. Summer 1995.

SUMMER INTERNSHIP, Parke Davis, Ann Arbor, MI. Incubated tumor cells with p53 antisense to induce apoptosis and understand its mechanisms. Used flow cytometry and gel electrophoresis to assess the percentage of apoptotic cells and monitor DNA integrity. Summer 1994.

LABORATORY ROTATION, Spartanburg General Hospital, Spartanburg, SC. Observation in clinical chemistry, hematology, and pathology labs. Converse College Winter Term, 1985.

CLINICAL ROTATION, Massachusetts Ear and Eye Infirmary and General Hospital, Boston, MA. Observation in conjunction with the Harvard University Program for students interested in the Health Sciences. Summer 1984.

LECTIN RESEARCH, Medical University of South Carolina, Charleston, SC. Performed hemagglutinin assays and SDS-PAGE to characterize erythrocyte glycoproteins. Summer 1983.

PUBLICATIONS (peer reviewed) Book Chapters

1. Chapter 28. Drugs Acting on the Gastrointestinal Tract. **Jayne S. Reuben, Ph.D.** Pharmacology and Therapeutics for Dentistry. Upcoming 8th Edition. Elsevier, 2025. Frank J. Dowd DDS PhD (Editor).
2. Chapter 30. Adrenal Corticoids. **Jayne S. Reuben, Ph.D.** Pharmacology and Therapeutics for Dentistry. Upcoming 8th Edition. Elsevier, 2025. Frank J. Dowd DDS PhD (Editor).
3. Mediators of Lung Inflammation: Role of Reactive Oxygen and Nitrogen Species. **Reuben J**, Guo RF and Ward PA. Oxygen and Nitrogen Radicals: Lung Injury and Disease v187 Apr 2004.

4. Immunological and Virological Studies in HAM/TSP. McFarlin D, Gupta A, Mattson D, Harris J, **Reuben J**, and Jacobson S. Human Retrovirology, Raven Press 1990.
5. Spontaneous Lymphocyte Proliferation in Elevated Asymptomatic HTLV-I-positive Jamaicans. Kramer A, Jacobson S, **Reuben J**, and Murphy E. Human Retrovirology, Raven Press 1990.

Manuscripts

1. A Pilot Program to introduce Interprofessional Education in a Dental Pharmacology Course. **Jayne S. Reuben, PhD**; Lindsay Cole, PharmD; Kathleen Eddy, PharmD, and Kiara Talabi, PharmD (*in revision*)
2. Improving Patient Outcomes by Impacting Patient Experience: Combating Health Illiteracy. Rakiya Faulkner, MD; Macy McNair, MD; and **Jayne S. Reuben, PhD** (*in revision*)
3. Side Effects of Atypical Antipsychotic Medications for Children in Foster Care-A dental perspective. Yvonne MacAuley, B. Dent. Sc.; Shayna Abie, DDS; Paris Webb, BS and **Jayne S. Reuben, PhD** (*in revision*)
4. Establishing a Special Care Dentistry Fellowship at Texas A&M College of Dentistry. Burch D, Zandinejad A, Ray N, and **Reuben J** (*in revision*)
5. The Role of Religion: Cultural and Contextual Influences in Mental Health. Peterson E, **Reuben J**, Njinimbam DJ and Holder SM (*in revision*)
6. Zoledronic acid enhances proteasome-mediated degradation of Suppressor of Cytokine Signaling 3 (SOCS3). Vu W, Ruest LB, Adesanya P, Stinson C and **Reuben JS**. (*In revision*)
7. Artificial Intelligence in Pharmacology Assessment (Invited Review). **Reuben JS**, Cordier W, Meiri H, and Arien-Zakay H. British Journal of Clinical Pharmacology. (*submitted*)
8. AI's pivotal impact on redefining stakeholder roles and their interactions in medical education and health care. Reuben JS, Meiri H, Arien-Zakay H. Front Digit Health. 2024 Nov 5; 6:1458811. doi: 10.3389/fdgh.2024.1458811. PMID: 39564581; PMCID: PMC11573760.
9. Delores C. Shockley: A Trailblazer in Pharmacology. The Pharmacologist 2024 66:2, 8-11. <https://thepharmacologist.org/downloads/>
10. Accommodations for Disabilities in Dental Education: A Focus on Technical Standards and Clinical Skills. **Jayne S. Reuben**, Khairunisa Hashmani, Mitzy Perez, Robert Gyurko, Mary Kang, and Matthew R. Cooke. J Dent Educ 2024 Jan 27. doi: 10.1002/jdd.13443.
11. A Dental Student's Perspective of Mid-level Providers in the Oral Healthcare Team. Paris Webb, BS, Reginald W. Taylor, DMD, DMSc; and **Jayne S. Reuben, PhD**. Med.Sci.Educ. 31, 885–887 (2021). <https://doi.org/10.1007/s40670-021-01203-3>
12. IAMSE Meeting Report: Student Plenary at the 24th Annual Conference of the International Association of Medical Science Educators. **Reuben, J.S.**, Crawley, W.T., Webb, P. et al. Med.Sci.Educ. 30, 13–15 (2020). <https://doi.org/10.1007/s40670-020-01087-9>.

13. Implementation and outcome of a self-directed interactive learning based upon clinical cases in the medical neuroscience curriculum. Nathaniel T, Williams JA, Gainey J, Stewart B, Hood M, Faulkner R, Pendergrass P, Black L, Griffin S, Troup C, Buggy J, Black A, and **Reuben J**. Medical Science Educator. Anat Sci Educ. 2017 Dec 18. doi: 10.1002/ase.1759.
14. Diallyl disulfide inhibits TNF α - induced CCL2 release through MAPK/ERK and NF-Kappa-B signaling in MDA-MB-231 cells. Bauer D, Redmon N, Mazzio E, Taka E, **Reuben JS**, Day A, Sadrud-Din S, Flores-Rozas H, Soliman KF and Darling-Reed S. CYTOKINE 2015 Sep;75(1):117-26. Epub 2015 Jun 20.
15. The attenuation of benzo(a)pyrene-induced carcinogenic insults by diallyl disulfide (DADS) in MCF-10A cells. Nkrumah-Elie YM, Hudson A, Taka E, Badisa R, Ardley T, Israel B, Bauer D, Gallimore SS, Sadrud-Din SY, Oriaku E, **Reuben JS** and Darling-Reed SF Nutrition and Cancer Nutr Cancer. 2012;64(7):1112-21.
16. Reduced GABAA receptor $\alpha 6$ expression in the trigeminal ganglion alters inflammatory TMJ Hypersensitivity. Puri J, Vinothini P, **Reuben J**, Bellinger LL, Ailing L, Peng YB, Kramer PR. Neuroscience. 2012 Jun 28; 213:179-90.
17. Diallyl trisulfide as an inhibitor of benzo(a)pyrene-induced precancerous carcinogenesis in MCF-10A cells. Nkrumah-Elie YM, **Reuben JS**, Hudson A, Taka E, Badisa R, Ardley T, Israel B, Sadrud-Din SY, Oriaku E, Darling-Reed SF. Food Chem Toxicol. 2012 Jul;50(7):2524-30.
18. Achieving student diversity in dental schools: a model that works. Lacy E, McCann A, Miller B, Solomon E and **Reuben JS**. J Dent Educ. 2012 May; 76(5):523-33.
19. Retention of Underrepresented Minority Students in Dental School. Lacy ES, McCann AL, Miller BH, Solomon E, **Reuben JS**. J Am Coll Dent 2011 Winter 78(4):40-47.
20. Zoledronic acid inhibits macrophage SOCS3 expression and enhances cytokine production. Scheller EL, Hankenson KD, **Reuben JS**, Krebsbach PH. J Cell Biochem. 2011 112(11):3364-72.
21. Bisphosphonates inhibit phosphorylation of signal transducer and activator of transcription 3 and expression of suppressor of cytokine signaling 3: implications for their effects on innate immune function and osteoclastogenesis. **Reuben JS**, Dinh L, Lee J, Stateson J, Kamara H, Xiang L, Opperman LA. Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontics 2011 Feb;111(2):196-204.
22. PI3K limits TNF- α production in CD16-activated monocytes. Kramer PR, Winger V and **Reuben J**. Eur J Immunology 2009 Feb;39(2):561-70.
23. Acute Lung Injury: Apoptosis and Signaling Mechanisms. Chopra M, **Reuben JS**, and Sharma AC. Experimental Biology and Medicine 2009 Apr;234(4):361-71.
24. Ability of Anti-oxidant Liposomes to Prevent Acute and Progressive Pulmonary Injury. Hoesel LM, Flierl MA, Niederbichler AD, Rittirsch D, McClintock SD, **Reuben JS**, Pianko MJ, William Stone W, Yang H, Milton Smith M, and Ward PA. Antioxidants and Redox Signaling 2008 May;10(5):973-81.

25. Preparing Graduate Students and Postdocs: A Model Program. Butts C and **Reuben J**. ASBMB Today. July 2007.
26. Divergent Signaling pathways in phagocytic cells during sepsis. Guo RF, Reidemann NC, Sun L, Gao H, Shi KX, **Reuben JS**, Sarma VJ, Zetoune FS and Ward PA. J Immunol 2006 Jul 15;177(2):1306-13.
27. Selectin inhibition modulates Akt/MAPK signaling and chemokine expression after liver ischemia-reperfusion. Toledo-Pereyra LH, Lopez-Neblina F, **Reuben JS**, Toledo AH, Ward PA. J Invest Surg. 2004 Nov-Dec;17(6):303-13.
28. Exogenous nitric oxide donor and related compounds protect against lung inflammatory response after hemorrhagic shock and resuscitation. Anaya-Prado R, Toledo-Pereyra LH, Walsh J, Guo RF, **Reuben J**, Ward PA. J Trauma. 2004 Nov;57(5):980-8.
29. Stat3 activation in acute lung injury. Gao H, Guo RF, Speyer CL, **Reuben J**, Neff TA, Hoesel LM, Riedemann NC, McClintock SD, Sarma JV, Van Rooijen N, Zetoune FS, Ward PA. J Immunol. 2004 Jun 15;172(12):7703-12.
30. Regulatory role of C5a in LPS-induced IL-6 production by neutrophils during sepsis. Riedemann NC, Guo RF, Hollmann TJ, Gao H, Neff TA, **Reuben JS**, Speyer CL, Sarma JV, Wetsel RA, Zetoune FS, Ward PA. FASEB J. 2004 Feb;18(2):370-2.
31. Regulation by C5a of neutrophil activation during sepsis. Riedemann NC, Guo RF, Bernacki KD, **Reuben JS**, Laudes IJ, Neff TA, Gao H, Speyer C, Sarma VJ, Zetoune FS, Ward PA. Immunity. 2003 Aug;19(2):193-202.
32. The attenuation of hemorrhage-induced liver injury by exogenous nitric oxide, L-arginine, and inhibition of inducible nitric oxide synthase. Anaya-Prado R, Toledo-Pereyra LH, Guo RF, **Reuben J**, Ward PA, Walsh J. J Invest Surg. 2003 Sep-Oct;16(5):247-61.
33. Neutrophil C5a receptor and the outcome in a rat model of sepsis. Guo RF, Riedemann NC, Bernacki KD, Sarma VJ, Laudes IJ, **Reuben JS**, Younkin EM, Neff TA, Paulauskis JD, Zetoune FS, Ward PA. FASEB J. 2003 Oct;17(13):1889-91.
34. Induction of Apoptosis by S-Adenosyl-Methionine in PC12 Cells. Zhao W, Shepherd K, **Reuben J**, Lee E, Darling-Reed S, Lamango N, Soliman K and Charlton C. J Neurosci Res. 2002 Aug 15;69(4):519-29.
35. The Role of Inducible Nitric Oxide in Cocaine-induced Kindling. Park K, **Reuben J**, and Soliman K. Exp Biol Med (Maywood). 2001 Mar 226(3): 185-90.
36. Effect of Dibutyryl cyclic AMP on the kinetics of myo-Inositol transport in cultured astrocytes. Isaacks R, Bender A, **Reuben J**, Kim C, Shi Y, and Norenberg M. Journal of Neurochemistry 1999 July 73(1): 105-110.
37. Induction of CD4+, human T-lymphotrophic virus type-1-specific cytotoxic T-lymphocytes from patients with HAM/TSP. Recognition of an immunogenic region of the gp46 envelope glycoprotein of human T-lymphotrophic virus type-1. Jacobson S, **Reuben J**, Streilein R, and Palker T. Journal of Immunology, 1991 Feb 15, 146(4): 1155-62.

38. Spontaneous Lymphocyte proliferation in HTLV-II infection. Wiktor S, Jacobson S, Weiss S, Shaw G, **Reuben J**, Shorty V, McFarlin D and Blattner W. Lancet 1991 Feb 9; 337(8737): 327-8.
39. Spontaneous Lymphocyte Proliferation in symptom-free HTLV-I positive Jamaicans (letter), Kramer A, Jacobson S, **Reuben J**, Murphy E, Wiktor S, Cranston B, Figueroa J, Hanchard B, McFarlin D, and Blattner W. Lancet 1989 Oct. 14, 2(8668): 923-4.

Scientific Abstracts

1. Faulkner R, McNair M, Hernandez A, Gracia D and **Reuben J**. Improving Patient Outcomes by Impacting Patient Experience: Combating Health Illiteracy. The Mitchell Wolfson Sr. Department of Community Service Community Health Leadership Conference, Miami, FL. March 2017.
2. Darling-Reed SF, Nkrumah-Elie Y, Hudson A, Flores-Rozas H, Jett M, Hammamieh R, Day A, Oriaku E, and **Reuben JS**. Alterations in Benzo(a)pyrene induced DNA damage via Organosulfide Compounds in MCF-10A cells. FASEB J April 9, 2013 27:1104.7
3. Roudebush WE, Callihan CP, Hamilton M, See AG, **Reuben JS**. Effect of drugs and homeopathic remedies on semen parameters. Proceedings of the American Association of Bioanalyst's Educational Conference and College of Reproductive Biology Symposium, Las Vegas, NV, 2013:61-74.
4. Zoledronic Acid enhances proteasome-mediated degradation of SOCS3. Vu W, Johnson CP, Adesanya P, Ruest LB and **Reuben J**. AADR 2012 (*student oral presentation*)
5. Effect of LPS and Zoledronic Acid on Osteoactivin Levels. Dinh L, Vu W, Deljavan N, and **Reuben J**. AADR 2011 (*student oral presentation*)
6. Bisphosphonates inhibit SOCS3 expression in macrophages and oral epithelium. Scheller E, Song J, Hankenson K, Edwards P, **Reuben J** and Krebsbach P. AADR 2011 (*student oral presentation*)
7. Modulating the GABA (A) $\alpha 6$ receptor subunit alters the TMJ nociceptive response. Puri J, Bellinger L, **Reuben J** and Kramer P. Society for Neuroscience 2010. (*student oral presentation*)
8. Bisphosphates inhibit Leptin-Induced SOCS3 expression. Palos E, Vanderbrook D, Puri J, Xiang L and **Reuben J**. AADR 2010. (*student oral presentation*)
9. Pamidronate enhances NPY-Y1 Receptor expression and NPY-induced Caspase 3 cleavage. Vanderbrook D, Palos E, Puri J, Xiang L and **Reuben J**. AADR 2010. (Reuben: *session co-chair*)
10. Effect of Bisphosphonates on HMGB1 and RAGE in macrophages. Lee J, Dinh L, Stateson J, Puri J, Xiang L and **Reuben J**. AADR/IADR 2009. (*student oral presentation*)
11. Effect of Bisphosphonates on C5aR and C3aR in macrophages. Stateson J, Lee J, Dinh L, Puri J, Xiang L and **Reuben J**. AADR/ IADR 2009 (*student oral presentation*)
12. Effect of Bisphosphonates on SOCS3 in macrophages. Dinh L, Lee J, Stateson J, Puri J, Xiang L and **Reuben J**. AADR/IADR 2009 (*student oral presentation and committee chair*)
13. Type IX collagen protein in human periodontal ligament. Taylor, RW, Biggs, K and **Reuben JS**.

AADR/ IADR 2009 (*student poster presentation*)

14. Estrogen Effects on Signaling in Trigeminal Ganglion during TMJ Inflammation. Kamara H, Stateson J, Puri J, and **Reuben J**, AADR March 2008. (*student poster presentation*)
15. Upregulation of C5aR Expression during TMJ Inflammation. Stateson J, Kamara H, Puri J, and **Reuben J**, AADR March 2008. (*student poster presentation*)
16. Type IX collagen distribution in human periodontal ligament. Davis, L, Taylor, RW and **Reuben JS**. AADR 2008. (*student poster presentation*)
17. NGF modulates MIP-2 production in alveolar macrophages via MAPK. **Reuben JS**, Baugh BC, McClintock SD, Olle EW, Mulligan MS, Ward PA. FASEB Neuro-Immune Interactions Summer Conference 2006 (*oral presentation*)
18. Increased NGF during Lung Ischemia and Reperfusion and its Effect on MIP-2 production by Alveolar Macrophages. **JS Reuben**, BC Baugh, MS Mulligan and PA Ward. Experimental Biology, April 2006 (*oral presentation*)
19. Inflammatory Mediator Expression in the Contralateral Lung following Left Lung Ischemia and Reperfusion. **JS Reuben**, BC Baugh, MS Mulligan and PA Ward. Experimental Biology, April 2005 (*oral presentation*)
20. Alteration of inflammatory and apoptotic mediator expression during lung ischemia and reperfusion. **JS Reuben**, RF Guo, B Naidu, MS Mulligan and PA Ward. FASEB, April 2003.
21. Multiple Selectin Blockade decreases Chemokine Production during Liver Ischemia and Reperfusion. BC Baugh, **JS Reuben**, L Toledo-Pereyra, F Lopez and PA Ward. Undergraduate Research Opportunity Program, Spring Research Symposium 2004, ABRCMS, Fall 2004.
22. Anisoosmotic Stress Modulates Nitric Oxide Production in Neural and Glial Cells. **J Reuben**, A Brown, S Darling-Reed and K Soliman. Experimental Biology, March 2001.
23. Hyperosmotic Stress potentiates Nitric Oxide production in C6 Glioma cells. **J Reuben**, A Brown, S Darling-Reed, and K Soliman. National Minority Research Symposium, November 2000.
24. Effect of Cocaine Exposure Stimulates Nitric Oxide Production in a C6 Glial Cell Line. S Darling-Reed, **J Reuben** and K Soliman. National Minority Research Symposium, November 2000.
25. The Effect of Zinc on Spatial Navigation and Memory in Male Sprague Dawley Rats. T Turner, **J Reuben**, and M Soliman. American Society for Neurochemistry, March 1999.
26. Effect of Cocaine and NMDA on Nitric Oxide Synthase Activity in Branched PC12 cells. S Darling-Reed, E Mazzio, J Huber, **J Reuben**, and K. Soliman. American Society for Neurochemistry (ASN), March 1999.
27. Co-Regulation of myo-Inositol level by Alterations in Transport and Inositol monophosphatase mRNA Expression in Astrocytes during Chronic Osmotic Stress. **J Reuben**, K Soliman, and R Isaacks. Society for Neuroscience, November 1998.

28. Lithium Alters myo-Inositol Transport in Normal and Dibutyryl Cyclic AMP-Treated Astrocyte Cultures. **J Reuben**, K Soliman, C Kim, and R Isaacks. ASN, March 1998.
29. Effect of Dibutyryl Cyclic AMP Treatment of Astrocytes on Kinetics of myo-Inositol Transport. R Isaacks, A Bender, **J Reuben** and M Norenberg. ASN, March 1998.
30. Osmotic Regulation of Inositol Monophosphatase. **J Reuben**, R Isaacks, Y Shi, and K Soliman. National Minority Research Symposium, October 1997.

Education and Career Development Abstracts, Posters and Presentations

1. Leveraging AI for Pharmacology Education: Hands-on Approach. **Reuben JS**, Alam F, Meiri H, Arien-Zakay H. American Society for Pharmacology and Experimental Therapeutics (ASPET) Annual Meeting, April 2025.
2. Dental Curriculum Development using a Community of Practice (CoP): National Center for Medical Education Development and Research (NCMEDR). American Dental Education Association (ADEA) Annual Session and Exhibition, National Harbor, MI, March 2025. (Short Talk)
3. Integration of Pharmacological Principles and AI into GI Physiology. **Jayne S. Reuben**, Akeira Warner and Shaun Logan. 9th European Congress of Pharmacology. Athens, Greece. June, 2024. (Poster)
- 4.. Artificial Intelligence in Pharmacology Education. World Congress of Basic and Clinical Pharmacology IUPHAR Education Satellite Meeting. Scotland, UK. July 2023 (Short Talk)
- 5.. Using Learning and Study Strategies to Promote Student Success. **Jayne S. Reuben**, Mohammed Khalil, and Ihsan Elkhider. International Association of Medical Science Educators (IAMSE). Cancun, MX. June 2023. (Focus Session).
- 6.. Application of Principles of Instructional Design for Successful Learning. Mohammed Khalil, **Jayne S. Reuben**, and Ihsan Elkhider. Cancun, MX. June 2023. (Focus Session).
- 7.. Student Attitudes towards Game-based Learning in Pharmacology. **Jayne S. Reuben**, Akeira Warner and Ihsan Elkhider. World Congress of Basic and Clinical Pharmacology. Scotland, UK. July 2023. . (Poster)
- 8.. Accommodations for Disabilities in Education: A Focus on Technical Standards and Clinical Skills. **Jayne S. Reuben**. TAMU Transformational Teaching Conference. College Station, TX May 2023. (Short Talk)
- 9.. Dental Caries Experience Among Children with Special Health Care Needs. Kobie Gordon, Nina Ray, **Jayne Reuben**, and Dan Burch. SCDA 35th Annual Meeting in Special Care Dentistry. Dallas, TX. April 2023. (Poster)
10. Dexmedetomidine: An Oral Alternative for Conscious Sedation in Special Care Dentistry. Carlos Ruiz, **Jayne Reuben**, Nina Ray, and Dan Burch. SCDA 35th Annual Meeting in Special Care Dentistry. Dallas, TX. April 2023. (Poster)
11. Using the Patient Box to integrate Social Determinants of Health Discussions into the Biomedical Sciences. American Dental Educational Association (ADEA) Meeting. Portland, OR. March 2023. (Short Talk)

12. Accommodations for Disabilities in Dental Education: A Focus on Technical Standards and Clinical Skills. **Jayne S. Reuben**, Khairunisa Hashmani, Mitzy Perez, Robert Gyurko, Mary Kang, and Matthew R. Cooke. ADEA. Portland, OR. March 2023.
13. Mitigating implicit bias in medical school curricula. Robert Copeland, Ian Murray, Jacqueline Powell, **Jayne Reuben**, Nada Fadul, Dawn Shell, and Stacie Fairley, IAMSE, June 2022. (Focus Session)
14. ASPET Presidential Symposium: The Intersectionality of Health Disparities: Pharmacology, Prescribing Bias and Social Determinants of Health. Peggy Gnegy and **Jayne Reuben**, ASPET Annual Meeting, April 2022. (Oral Presentation/Moderator)
15. Automating the Patient-Oriented Problem-Solving Sessions in Pharmacology: Therapy of Diabetes Mellitus-**Jayne S. Reuben**. ASPET Annual Meeting, April 2022. (Symposium)
16. When Chocolate Makes You Smile Better. Nour A. Odeh, Dan Burch, DDS, MS, MPH and **Jayne S. Reuben, Ph.D.** Texas A&M University Master of Biotechnology Program Poster Competition. May 2022.
17. Using Self-Learning Modules and Content Scaffolding to Improve Student Performance and Confidence in Integrated Biomedical Courses. Infographic. **Jayne Reuben**, Krysten Barnes, Alexandra Talley, Alexandra Evans, and Akeira Warner. TAMU Transformational Teaching and Learning Virtual Conference, April 2021.
18. Engaging Dental Students in Educational Research to Enhance their Pharmacology Knowledge. **Jayne Reuben**, Krysten Barnes, Alexandra Talley, Alexandra Evans, and Akeira Warner. Infographic. TAMU Transformational Teaching and Learning Virtual Conference, April 2021.
19. ASPET Pharmacology Education Symposium: Addressing the Opioid and Substance Abuse Crisis. Laurel Gorman and **Jayne Reuben**, Organizers and Presenters. EB 2021. (Oral Presentation)
20. TAMU College of Dentistry Faculty Development Series: Reflective Teaching. **Dr. Jayne S. Reuben**, Dr. Faizan Kabani, and Dr. Lavern Holyfield. November, 2020 and March 2021.
21. TAMU Faculty Development Series: The Virtual Classroom, Part II- Integrating Synchronous & Asynchronous Learning. **Dr. Jayne S. Reuben**, Dr. Faizan Kabani, and Dr. Lavern Holyfield. July 2020.
22. TAMU Faculty Development Series: The Virtual Classroom, Part I- The Flipped Classroom. Dr. Lavern Holyfield, Dr. Faizan Kabani, and **Dr. Jayne S. Reuben**. June 2020.
23. An Interprofessional Education (IPE) Model for Learning Pharmacology: Dental Students and Pharmacists Collaborate. ADEA 2019. (Oral Presentation)
24. Evidence-Based Strategies to Improve Student performance in STEM, Annual Biomedical Research Conference for Minoritized Students (ABRCMS) November 2018. (Oral Presentation)
25. A Pilot program to introduce Interprofessional Education in a Dental Pharmacology Course- Presented at the World Congress of Pharmacology, Kyoto Japan, July, 2018. (Poster Abstract)

26. Using a Self-Reflection Exercise to Improve Student Performance. TAMU Transformational Teaching and Learning Conference. **Jayne S. Reuben** and Shaun M. Logan, April 2018. (Oral Presentation)
27. At the Table Talk: Finding Common Language to Negotiate through Difference. Soto M and **Reuben J.** American Association of Hispanics in Higher Education National Conference, March 2017, Irvine, CA.
28. Application of Active Learning Methodologies for Integrating Pharmacokinetics, Pharmacodynamics, and Pharmacogenetics into a First-Year Medical School Module. Peffley D, **Reuben J**, Wolff D and Farrell C. IAMSE Poster Presentation, June 2016, Leiden, Netherlands.
29. Developing a discipline-based problem-solving set for one medical science for broader application. Theobald R, **Reuben J** and Peffley D. International Association of Medical Science Educators (IAMSE) Focus Session, June 2016, Leiden, Netherlands.
30. Integrating Pharmacokinetics, Pharmacodynamics, and Pharmacogenomics into a First-year Medical School Foundational Module Using Active Learning Methodologies. (Poster Presentation) Peffley D, **Reuben J**, Wolff D and Farrell C. EB 2016
31. Patient-Oriented Problem-Solving Exercises (POPS) Diabetes Pharmacology Revision. EB 2016 (Oral Presentation). **Jayne S. Reuben, Ph.D.** (Now located on the DPE website for members only.)
32. Pharmacologists: Leading the Prescription for Change in Medical Education. Invited Keynote Speaker, ASPET Diversity Breakfast. EB 2015.
33. Opportunities in STEM/STEAM and Global Health, Session Organizer/Moderator. Pan-African Enterprise Research Council, October 2015. Atlanta, GA.

EDUCATIONAL MATERIALS DEVELOPED

1. National Pharmacology Knowledge Objectives. Chair, Chapter 9. Autacoids, Nonsteroidal anti-inflammatory and Asthmatic Drugs. https://www.aspet.org/docs/default-source/education-files/2022-pharmacology-knowledge-objectives.pdf?sfvrsn=547469d3_0
2. National Pharmacology Knowledge Objectives. Member, Chapter 13. Toxicology and Therapy of Intoxication. https://www.aspet.org/docs/default-source/education-files/2022-pharmacology-knowledge-objectives.pdf?sfvrsn=547469d3_0
3. Dental Anesthesia Jeopardy developed with Dr. Matthew R. Cooke (University of Pittsburgh).
4. Curriculum Consultant and Co-Creator. Ten Curriculum Modules focusing on the needs and intersectionality of historically underserved populations-migrant workers and persons experiencing homelessness. Titles: Immunization Disparities/Vaccine Hesitancy, Affirming Care, Adverse Childhood Experiences, Sexual Violence, Interpersonal Violence, Opioid Use Disorder, Implicit Physician Bias, Pre-Exposure Prophylaxis (PrEP), Telehealth, and Mental Health. Meharry National Center on Medical Education, Development and Research (NCMEDR) Community of Practice.

5. Learning Theory Based -MIRO Board. Member, Innovation and Design for Exploration and Analysis in Teaching Excellence (IDEATE) Community. A community of scholars who design and implement evidence-based high-impact practices, 2021-present. [TAMU CTE - IDEATE Community](#)
6. Revised Drug Class Prefix and Suffix Lists. Currently in revision with D4, D3, and D2 students.
7. Formative Pharmacology Quizzes for Dental Student Self-Directed Learning/Assessment. 2017-present.
8. Pharmacology Jeopardy Games (General Principles, GI, and Endocrine Reviews) using Bloom's Taxonomy for D4 (9110 Applied Pharmacology Board Review). Texas A&M University (TAMU) College of Dentistry. Fall 2020.
9. Student Self-Reflection Exercise to Enhance Metacognition. Texas A&M University (TAMU) College of Dentistry. Fall 2019.
10. Pain and Opioid Jeopardy for Dental Students. Collaboration with Dr. Amerian Somes: Essential to Reducing Opioid Prescribing. ADEA 2019.
11. Pharmacology Jeopardy Games (Anti-infectives) using Bloom's Taxonomy for D2 and D3 students. Texas A&M University (TAMU) College of Dentistry. Fall 2018.
12. What happens when you eat a cheeseburger? Integration of gastrointestinal physiology concepts exercise for health professions students. Texas A&M University (TAMU) College of Dentistry. Spring 2018.
13. Pharmacology Jeopardy Games using Bloom's Taxonomy for M1 and M2 modules: Biomedical Principles of Infectious Disease and Therapy (BPIDT), EndoGynBreast, Mind Brain and Behavior, GI/Hepatic, Defenses and Responses Modules. USCSOMG, 2016.
14. Patient-Oriented Problem-Solving Exercises (POPS) Diabetes Pharmacology Revision. EB2016 Peer-Reviewed.
15. Innate Immune Rap with M2 Student Garrett Rushing for the M1 Defenses and Responses Module, 2015.
16. Self-Learning Modules (SLMs): Medications used for Multiple Sclerosis, Introduction to Antimicrobial Pharmacology (3 SLMs) 2015.
17. Explore Pharmacology. A Resource for Undergraduate Students. Contributing Editor, 2017. https://www.aspet.org/docs/default-source/education-files/final-aspet-explore-pharmacology-2021_web-version.pdf
18. Formative Pharmacology Practice Questions Medical Student Self-Directed Learning/Assessment. 2011-2017.
19. Integrated Pharmacology Questions for Medical Student Summative Assessments. 2011-2017.

20. Physiology and Pharmacology Modules for an Integrated Curriculum, USCSOMG. 2011-2017.
21. Formative Self-Directed Exercises for the integration of physiology, neuroanatomy and pharmacology in the treatment of Parkinson Disease. USCSOMG. 2011-2017

INVITED PRESENTATIONS: EDUCATION, FACULTY, STAFF AND CURRICULUM DEVELOPMENT

1. Leveraging AI and Girvan–Newman Analysis to Explore Student Use of AI in Learning and Integrating Pharmacology. 20th World Congress of Basic and Clinical Pharmacology, July 2026. Melbourne, Australia.
2. Rigor in Objectives and Assessments Using Bloom's Taxonomy. Academy for Advancing Leadership (AAL) 2025 Institute for Teaching and Learning, August 2025.
3. Incorporating Technology into Educational Activities in the Classroom. Academy for Advancing Leadership (AAL) 2025 Institute for Teaching and Learning, August 2025.
4. Incorporating Evidence-based Principles: The Data and Learning Theories That Support Them. **Jayne S. Reuben, Ph.D.** and Monzurul A. Roni, Ph.D. ASPET REACH Faculty Scholars Program Workshop, February 2025.
5. Enhancing Dental Education with AI: Student Attitudes and Practices. **Jayne S. Reuben, PhD**, Justin Thamsorn, BS, Akeira Warner, DDS. TAMU Transformational Teaching and Learning Conference. May, 2024.
6. Integrating the Innovation and Design for Exploration and Analysis in Teaching Excellence (IDEATE) model into Pharmacology Teaching, Learning and Scholarship, May 2024 ASPET
7. Telehealth, AI and Patient Care: Risks and Opportunities. CE Course. Behavioral Health Workforce Education and Training (BHWET) Program, Tennessee Area Health Education Center (TN-AHEC) Program. September 2024.
8. Artificial Intelligence (AI) in Health Professions Education: Friend or Foe? Laura Bauler, Carolina Restini, **Jayne Reuben**, and Hadar Arien Zakay. International Association of Medical Science Educators (IAMSE) Annual Conference. Minneapolis, MS, June 2024.
9. Prompt Engineering: Incorporating AI into Dental Curriculum: A Double-edged Sword. American Dental Education Association (ADEA) Annual Session and Exhibition. New Orleans, LA, March 2024.
10. Using AI to Increase Productivity and Creativity. University of Michigan WCTF 42nd Annual Career Conference. March 2024. <https://rsvp.umich.edu/event/2024-WCTF-CONFERENCE/websitePage:ffa832a5-f1d7-4d3c-8ca1-d7eb366d7365>
11. Quality Assurance in Curriculum Redesign Series. Fall 2023- Summer 2024. University of Pretoria, South Africa.
12. Disabilities in Health Professions Education: A Focus on Technical Standards and Clinical Skills to Address Health Disparities. Xavier University 16th Health Disparities Conference, February 2023.

13. A Design Thinking Approach to Interprofessional Collaborative Mental Health Care. CE Course. Behavioral Health Workforce Education and Training (BHWET) Program, Tennessee Area Health Education Center (TN-AHEC) Program. June 2022.
14. IAMSE Virtual Pre-Conference Workshop: Facilitating Powerful Learning by Developing Learner Creativity and Design Skills. Jonan Donaldson, Ph.D. and **Jayne S. Reuben**, Ph.D. May 2022.
15. Invited Speaker and Moderator/Facilitator. 6th Annual Communities of Practice Conference, National Center for Medical Education Development and Research: Sustaining Curriculum Transformation in Primary Care Education in Medical Schools, May 2022.
16. Design Thinking to Address Health Disparities. Xavier University 15th Health Disparities Conference, March 2022.
17. Invited Speaker and Moderator/Facilitator. 5th Annual Communities of Practice Conference, National Center for Medical Education Development and Research: The Future of Medical Education & Clinical Services: Meeting the Needs of Vulnerable Populations in 2030, May 2021.
18. Keynote Speaker, Meharry Medical College-wide Patient-Centered Medical Home Initiative Virtual Steering Committee Retreat, Transformative Health Professions Education to Promote Patient-Centered Care, May 2021.
19. FAMU College of Pharmacy and Pharmaceutical Sciences Eminent Scholar Workshop Series: Assessment Drives Learning, April 2021.
20. FAMU College of Pharmacy and Pharmaceutical Sciences Eminent Scholar Workshop Series: Zooming with Possibilities: Strategies to Enhance Student Learning and Performance, February 2021.
21. FAMU College of Pharmacy and Pharmaceutical Sciences Eminent Scholar Workshop Series: “Pharmaceutical Sciences in Bloom”: November 2020.
22. Opportunities for Educational Research at TAMU College of Dentistry. American Association for Dental Research, Dallas Chapter. October, 2020.
23. Medications and Sleep Disturbances. TAMU College of Dentistry Sleep Continuum Course. October 2020.
24. Pharmacology Education Keynote Speaker, “Strategies to Engage Students in Multiple Settings” West African Society for Pharmacology Annual Meeting (Virtual). October 2020.
25. Zooming with Possibilities: “Platforms to Promote Student Collaboration”. ASPET Virtual Series: Focus on Pharmacology. **Jayne S. Reuben, PhD**, Helmut Gottlieb, PhD, Michelle Walker, PhD. September, 2020. <https://www.aspet.org/aspet/meetings-awards/other-meetings/focus-on-pharmacology-virtual-series>
26. Six Evidence-Based Study Strategies, Morehouse College of Medicine Master of Science in Medical Sciences Student Retreat (Virtual). August 2020.
27. IAMSE Student Plenary. Student Voices: Envisioning the Future of Health Sciences Education across Different Healthcare Professions Worldwide. Moderator and Co-Organizer. William Crawley, Koen den Brok, Paris Webb, Elizabeth Woodburn and **Jayne S. Reuben**. June 2020.

28. Communities of Practice 4th Annual Conference. Crossroads Between Clinical Practice and Medical Education: Addressing the Health Needs of Vulnerable Populations. Advancing the Medical Education Curriculum to Promote and Encourage Affirming Care —Transforming the Medical Education Curriculum. Cheryl L. Holder, MD, **Jayne S. Reuben, PhD** and Leandro A. Mena, MD, MPH. Moderators and Co-Organizers. May 2020.
29. GI Pharmacology Lectures, Burrell College of Osteopathic Medicine December 2018. (Invited Lecturer)
30. Writing Assessments along Bloom's Taxonomy to Enhance Critical Thinking, Morehouse School of Medicine Premedical Faculty Summit, November 2018.
31. Evidence-based Strategies to Improve Student Performance on Standardized Tests, Morehouse School of Medicine Premedical Faculty Summit, November 2018.
32. IPE: Educating a New Generation of Healthcare Professionals to Prescribe Medications Safely and Effectively-Session Moderator. World Congress of Pharmacology, Kyoto Japan, July, 2018.
33. Pharmacology Blooms in Assessment. Assessing Pharmacology in Integrated Curricula. ASPET Annual Meeting, Experimental Biology 2018.
34. Assessment Drives Learning. North Carolina A&T University Faculty Development Workshop. March, 2017.
35. Autonomic Pharmacology Consolidation, Invited Guest Lecturer, Texas A & M College of Dentistry, October 2016.
36. Medications affecting Bone and Dental Health in Older Patients. CME Course, PMPDA Annual Meeting, Columbia, SC, April 2015.
37. Bisphosphonates inhibit phosphorylation of STAT3 and SOCS3 protein: Implications for their effects on innate immune function and osteoclastogenesis. RCMI Seminar Speaker Series, Florida A & M University College of Pharmacy and Pharmaceutical Sciences, October 2014.
38. Using Small Group Case Studies to teach Pharmacotherapeutics, Experimental Biology (EB). March 2015. Co-Organizer and Speaker. ASPET Division for Pharmacology Education (DPE).
39. Lessons Learned from STEM. Duke University School of Business PhD Pipeline Program. September, 2014.
40. New Medications and Pharmacovigilance. National Dental Association Annual Meeting, July 2011.
41. New Medications and Pharmacovigilance. Oklahoma City Area Annual Dental Meeting. June 2010.
42. Neurobiology of Nicotine Abuse. Comprehensive Tobacco Prevention Network Consensus Conference on Minority Tobacco Intervention. March 2010.
43. Pharmacology: New Drugs. National Oral Health Primary Care Conference, March 2008.

PRESENTATIONS: CAREER DEVELOPMENT AND DIVERSITY WORKSHOPS

1. Applying to Dental and Medical Programs. University of North Texas Health Science Center. School of Biomedical Sciences Application Workshop & Panel Discussion. September 2024.
2. RECAP: Mitigating Implicit Bias in Medical Curricula. Jacqueline Powell, Ph.D. and Jayne S. Reuben, Ph.D. IAMSE Virtual Café, September 2022.
3. Design Thinking to Address Health Disparities. Xavier 15th Health Disparities Conference, March, 2022.
4. SATA Questions Workshop. Bowie State University Department of Nursing, February 2022.
5. Assessment and Curriculum Mapping- Faculty Development Workshop. Bowie State University Department of Nursing, March 2021.
6. Strategies for Helping Nontraditional Students Succeed 2.0. ABRCMS, November 2018.
7. CAREER PATHWAY: Is Pharmaceutical Science for Me? “Degrees of Separation”. ABRCMS, November 2018.
8. Strategies for Mastering Standardized Tests. University of Michigan Women of Color Task Force Career Conference, 2018.
9. Bridging the Gap: Supporting the Academic Success of Nontraditional/Community College Students at 4-Year Institutions. ABRCMS 2017.
10. Applying to College. Urban League of the Upstate Level Up program. September 2016. Invited Speaker.
11. Organizer /Presenter, Opportunities in STEM/STEAM and Global Health. Third Pan-African Enterprise Research Council International Conference. September 2015.
12. Dos and Don'ts of Graduate and Professional School Admissions, Converse College, October 2013-present.
13. Co-Organizer and Speaker: 15th Annual ASIP/AAA Career Development & Mentoring Program and Lunch: Fundamentals of Success: How to Give an Award-Winning Presentation. Experimental Biology (EB), March 2015.
14. Taking Responsibility for your Learning, AAW@GHS meeting, August 2014. Invited Speaker.
15. Beyond the Job Offer: Exploring the Art of Effective Negotiation. Experimental Biology (EB) April 2014. Invited Speaker.
16. Career Opportunities Beyond the Bench: Education as a Viable Path. Experimental Biology (EB) April 2014. Organizer and Co-chair.
17. Guilty until Proven INNOCENT: Scientific Integrity and Getting Published! Experimental Biology (EB) April 2014. Organizer and Co-chair.

18. Invited Speaker and Panelist, Returning to School. University of Michigan Women of Color Task Force Career Conference, March 2013 and 2014.
19. Panel Moderator, Graduate School Experience: A Personal Story. ABRCMS, November 2013.
20. Invited Speaker, MARC U-STAR/RISE Speaker Series, Savannah State University, February 2013.
21. Invited Speaker, Gateway to the Future-Career Paths in Biomedical Sciences, STEM Disciplines and Behavioral Sciences. Annual Biomedical Research Conference for Minority Students (ABRCMS), 2012.
22. Session Co-Chair, How to Write Award Winning Grants. Experimental Biology (EB) April 2012.
23. Keynote Speaker, Science in Action Week, Morris College, February 2012.
24. Panel Moderator, Graduate School Experience: A Personal Story. ABRCMS, November 2011.
25. Invited Speaker, Science Forum, Converse College. October 2011-2014.
26. Facilitator, Giving Oral and Poster Presentations. ABRCMS, November 2011, 2012.
27. Co-Chair, How to Give Great Presentations, Experimental Biology (EB) April 2011.
28. Invited Speaker and Moderator, Opportunities for a Successful Postdoctoral Experience, ABRCMS, November 2010.
29. Co-Chair, Non-traditional Career Opportunities in Pathology. EB, April 2010.
30. Co-Chair, Winning in the Granting Process-ASIP, Pathology EB 2009.
31. Presenter, Test-Taking Strategies. University of Michigan Women of Color Task Force Career Conference. 2007, 2008, 2009.
32. Co-Organizer and Speaker, FASEB Postdoctoral Preparation Institute, EB 2007.

PUBLIC SECTOR/COMMUNITY DISSEMINATION ACTIVITIES

1. Workshop: Life Transitions and Aging Gracefully. South Central District Regional Conference. National Association of Negro Business and Professional Women Clubs, Inc. March, 2024.
2. Podcast: What is CBD oil? <https://dentistryinsider.tamhsc.edu/>
3. Greater Fort Worth NANBPW Club meeting, Living Heart Healthy Presentation, April 2021.
4. Texas Academy of General Dentists CE course. Standards of Care and Prescribing Opioids. 03/27/2021.
5. TAMU Dentistry News: Meds and COVID-19, 04/15/2020

6. Dietary Supplements: How to assess if they are good for you. Women of Color Task Force Annual Conference (Zoom) Presentation, University of Michigan, 03/2020.
7. Living Heart Healthy Presentation. National Association of Negro Business and Professional Women Convention, July 2019
8. ASPET Mentoring Program Invited Talk. The Cost of Ineffective Negotiations. June, 2019.
9. TAMU Dentistry News: When Exercise Feels like Fun, 04/23/2019.
10. TAMU Dentistry News: Opioids and Dentistry, 08/22/2018.

Selected Professional Development Activities

1. Successful Conflict Certifications Facilitation Seminar. Eckerd College Mediation Training Institute. April 2025.
2. Generative Artificial Intelligence (AI) for Dynamic Pharmacology Education, ASPET Annual Meeting 2024.
3. Hear from Peers: Navigating AI in the Classroom, TAMU CTE Fall Faculty Series, 2023.
4. Community Conversation-Teaching with AI. TAMU/Auburn University SEC CANVAS Course, Fall 2023.
5. Professional Identity of the 21st Century Pharmacology Educator. 19th World Congress of Basic and Clinical Pharmacology, 07/03/2023 Scotland, UK.
6. Active Learning Strategies. International Union of Basic and Clinical Pharmacology (IUPHAR) Education Satellite Meeting. July, 2023.
7. Innovative Education, IUPHAR Education Satellite Meeting. July, 2023.
8. Curriculum Design and Assessment, IUPHAR Education Satellite Meeting. July, 2023.
9. Creating, Delivering, and Assessing Online Content Workshop. ASPET Annual Meeting, May 2023.
10. Let's Talk: How to Effectively Promote and Facilitate Student Discussion. TAMU Center for Teaching Excellence, October 2022.
11. Learning Sciences Perspectives on Powerful Learning Experience Design. TAMU School of Dentistry Faculty Development Workshop. September and October 2022.
12. Texas Interprofessional Education (IPE) Consortium Virtual TeamSTEPPS Master Training Course. Fort Worth, TX. August, 2022.
13. Making Expert Thinking Visible: Harnessing Cognitive Apprenticeship to Improve Teaching. ADEA Virtual Workshop, April 2022.
14. Opioid CE, Texas License Requirement Course. TAMUCOD, July 2021.

15. IUPUI Virtual Assessment Institute, October 2021.
16. Accepted Participant, Harvard Macy Course, A Systems Approach to Assessment in Health Professions Education, October, 2021.
17. REMOTE: The Connected Faculty Summit <https://www.theremotesummit.org/remote-register?source=ASU>. 9 strategies for engaging students online. Creating multimedia that works for Learning. 2020, 2021.
18. ASPET Teaching Blitz, Teaching Institute: Preparing the Next Generation of Scientists to be Best Practice Educators and Developing Scientists into Best Practice Educators, EB. April, 2021.
19. Participant, Design Thinking for Engaged Learning, TAMU Center for Teaching Excellence, Summer, 2020.
20. National Board Dental Examination Update, ADEA Annual Meeting. Chicago, IL. 2019.
21. Attendee, TAMU Transformational Teaching Conference, Active Engagement. May, 2019
22. Interactive Case-based Exercises—An Interdisciplinary, Collaborative Approach Between Two Institutions. ADEA Annual Meeting. Chicago, IL. 2019.
23. Teaching Institute: Flipping Not Flopping: Active Learning Strategies for Graduate and Healthcare Pharmacology. ASPET Annual Meeting, 2018.
24. IPE: Educating a New Generation of Healthcare Professionals. Game-Based Learning and Clinical Simulation for Pharmacology. Delivering Innovative Solutions in Pharmacology Education: Leveraging Web-Based Technologies. ASPET Annual Meeting, 2017.
25. Game-Based Learning in Health Profession Education. IAMSE, June 2016, Leiden, Netherlands.
26. Teaching Institute: Developing Mentees Using Individual Development Plans (IDPs). ASPET, Experimental Biology April, 2016, San Diego, CA.
27. A Pharmacokinetics Primer: From Equations to Application. ASPET, Experimental Biology, April 2016, San Diego, CA.
28. Workshop Participant, Entering Mentoring-based Research Mentor Training for Peer/Faculty Mentors, 90-min seminar. Experimental Biology 2016, San Diego, CA. Facilitators: Drs. Cheri Barta and Kelly Diggs-Andrews.
29. Applying the Neuroscience of Learning to Designing Effective Learning Experiences. IAMSE, June 2015, San Diego, CA.
30. Writing Better Learning Objectives and Complementary Exam Questions. IAMSE June 2015, San Diego, CA.
31. Writing More Effective MCQS Using Patient Vignettes. IAMSE, June 2014, Nashville, TN.
32. ESME (Essential Skills in Medical Education) Online Course, 2014. Association for Medical

Education in Europe (AMEE).

33. Invited Participant, Learning Interventions: Understanding Research Techniques to Study Student Interventions. American Society for Microbiology, 2009.
34. Attendee, 2009 TAMHSC Faculty Development Workshop on Pedagogy: Teaching and Learning Strategies for Today's Students.

LEADERSHIP

Chair, Converse University Board of Visitors, 2025-present.
Member, Converse University School of Liberal Arts & Sciences Dean's Advisory Board, 2024-present.
Advisor, American Dental Education Association (ADEA) Emerging Leaders Program 2024-25.
Member, ADEA Advisory Committee for Innovation, Clinical Education, & Public Health, 2024-present.
Councilor, Section on Physiology, Pharmacology, and Therapeutics, ADEA, 2024-2027.
Member, Board of Visitors, Converse College, 2024-present.
Advisory Council Member, National Black Nurses Foundation, 2022-present.
Leader, TAMU COD Strategic Planning Excellence Goal 1.2, 2021-22.
Chair, Section on Physiology, Pharmacology, and Therapeutics, ADEA, 2021-2023.
Chair-Elect, Section on Physiology, Pharmacology, and Therapeutics, ADEA, 2020-2021.
Secretary, Section on Physiology, Pharmacology, and Therapeutics, ADEA, 2019-2020.
Director of Education, South Dallas Business and Professional Women's Clubs, Inc., 2019-2021.
Past-Chair, Division for Pharmacology Education (DPE), ASPET, 2018-2019.
Chair, TAMU College of Dentistry Health and Wellness Taskforce, 2018-2022.
Chair, TAMU COD Biomedical Sciences Microbiology Faculty Search Committee, 2018.
Course Director, Resident Clinical Pharmacology, TAMUCOD, 2017-present.
Course Director, D2 Dental Pharmacology Module, TAMUCOD, 2017-present.
Course Director, D3 Medical Pharmacology Module, TAMUCOD, 2017-present.
Course Director, D4 Applied Pharmacology Module, TAMUCOD, 2017-present.
Chair, Division for Pharmacology Education (DPE), ASPET, 2016-2018.
Greenville Health System GME Advisory Group for Diversity and Inclusion, 2016-2017.
Chair-Elect, Division for Pharmacology Education (DPE), ASPET, 2015-2016.
DPE Program Committee Representative, ASPET, 2013-2015.
Member, Leadership Team, AAW@GHS, Greenville Health System, 2013-2017.
Executive Committee Member, Division for Pharmacology Education (DPE), ASPET, 2012-2022.
Member, Board of Trustees, Converse College, 2012-2020.
Module Director, Biomedical Principles of Disease and Therapy, USCSOMG, Fall 2013.
Module Director, D2 Dental Pharmacology Module, Baylor College of Dentistry, 2009-2011.
Module Director, D3 Medical Pharmacology Module, Baylor College of Dentistry, 2006-2011.
Newsletter Editor-in-Chief, South Dallas Business and Professional Women's Clubs, Inc., 2009-2012.
Corresponding Secretary, South Dallas Business and Professional Women's Clubs, Inc., 2009-2011.
Resource Chair, South Dallas Business and Professional Women's Clubs, Inc., 2009-2011.
Member, FASEB/MARC National Advisory Board, 2005-2020.
Representative, Executive Board, ASPET Student Chapter, 2003-2004.
Member, Executive Board, National Postdoctoral Association, 2004-2005.
President, Graduate Assistants Union, FAMU, 1995-1996.
Vice-President, Graduate Association of Pharmaceutical Scientists (GAPS), 1995-1996.
President, GAPS, FAMU, 1994-1995, 1998-1999.
Chair, Judicial Board, Converse College, 1984-1985.

HONORS AND AWARDS

Council on Dental Accreditation (CODA) Site Visitor, 2025- present.
2024-25 Professional Service Award, TAMU College of Dentistry.
Texas A&M University (TAMU) Association of Former Students Distinguished Achievement Award in Teaching (University-level), 2024.
Member, Phi Kappa Phi Honor Society, TAMU Chapter, 2024.
2024 Institutional Service Award, TAMU College of Dentistry.
ADEA Leadership Institute Fellow, Class of 2022.
Fellow, American Society for Pharmacology and Experimental Therapeutics (ASPET), 2022.
ADEA/Colgate-Palmolive Company Excellence in Teaching Award, 2022.
Teaching Excellence Award, TAMU College of Dentistry, 2021-2022.
Honorary Member, Omicron Kappa Upsilon Dental Honor Society, elected 2022.
Fellow, ASPET Academy of Pharmacology Educators, 2021.
TAMU Provost Academic Professional Track Faculty Teaching Excellence Award, 2021.
Distinguished Teaching Award, TAMU College of Dentistry, 2020-2021.
TAMU ADVANCE Administrative Fellow, 2020-2021.
TAMU College of Dentistry Faculty Service Award, 2019.
Invited Participant, National Center for Medical Education, Development and Research Communities of Practice Conference, May 2019.
Invited Participant, AAMC National Workshop to Advance Medical Education to Combat Opioid Misuse: Working Together Across the Continuum, May 2019.
USC School of Medicine Service Award, 2016.
Converse 125 Outstanding Alumnae Award, Converse College 2014.
Nominee, Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, National Science Foundation, 2014.
ASPET Travel Award for Pharmacology Educators, EB 2012.
Federation of American Societies for Experimental Biology (FASEB)/ Faculty/Student Travel Award, EB 2011.
ASBMR FASEB Travel Fellow, New Frontiers in Skeletal Research, 2009.
American Association of Immunologists Minority Travel Fellow, 2006.
FASEB Peer/Faculty Mentor, Experimental Biology (EB) 2004 - 2009.
American Society for Investigative Pathology (ASIP) Travel Fellow, EB 2003.
FASEB Oral/Poster Presenter Travel Fellow, Experimental Biology (EB) March 2001.
ASPET Minority Graduate Student Travel Fellow, March 2001.
American Physiological Society (APS) Minority Travel Fellow, March 2001.
American Society of Biochemistry and Molecular Biology Travel Fellow, March 2001.
Pharmacology/Toxicology Winner, FAMU Student Research Forum, November 2000.
Travel Fellow, International Meeting of The Endocrine Society, June 2000.
Invited Participant, Proctor and Gamble Research Careers Conference, June 1999.
APS Minority Travel Fellowship Award, San Antonio, TX. December 1998.
Women in Neuroscience Travel Award, Society for Neuroscience, November 1998.
American Society for Neurochemistry Young Investigator Enhancement Fellow, March 1998.
Distinguished Leadership Award, FAMU College of Pharmacy, 1999 and 2000.
Rho Chi Honor Society, Florida Agricultural & Mechanical University, 1996.
Who's Who in American Colleges and Universities, FAMU, 1996; Converse College 1985.
Converse Scholar, 1984-1985.
Mortar Board, Converse College, 1984-1985.
Trustee Honor Scholar, Converse College, 1981-1985.

GRANTS AND FELLOWSHIPS

Academic Leadership and Faculty Development (ALFD) Fellowship. 2022-2027 HRSA Competitive Grant. \$1,575,924. Co-PI (Dan Burch-PI) (Submitted)

Innovative Dental Educator Advancement (IDEA). 2022-2027 HRSA Competitive Grant. \$931,000. HRSA Award No. 1 K02HP45716-01-00. Co-PI. (Nina Ray-PI)

ADEA-Colgate Excellence in Teaching Award, 2022. \$2500, PI

TAMU Provost Academic Professional Track Faculty Teaching Excellence Grant, 2021. \$5000, PI.

TAMU ADVANCE Administrative Fellowship, 2020. \$30,000, PI.

TAMU Presidential Transformational Teaching Grant, 2020. \$20,000, PI.

TAMU COD Educational Research Grant, 2018. \$3500, PI.

TAMHSC Research Development Grant, 2006-2008. \$15,000, PI.

UNCF/MERCK Postdoctoral Science Research Fellowship, 2002-2003. \$70,000, PI.

American Foundation of Pharmaceutical Education Fellowship, 1996-1999. \$18,000, PI.

Faculty Development Scholarship, Florida Agricultural & Mechanical University, 1995-1996. \$12,000

Delores A. Auzenne Scholarship, Florida Agricultural & Mechanical University, 1994-1997. \$9,000

SCHOLARSHIP/RESEARCH MENTORSHIP (STUDENTS)

Subata Khan, D4 Student. TAMU SOD.

Jesus Ojeda Pacheco, DDS. Current position: Resident Orthodontics.

Justin Thamson, D3 Student, TAMU SOD.

Nour Odeh, M.S. Candidate, Biotechnology, TAMU. Directed Studies Spring, 2022.

Shwetha Ramanathan, DDS. Current position: Dentist, Private Practice.

Candace Fiedler, DDS. Current position: Dentist, Private Practice.

Junior Cruz, DDS, TAMU COD. Current position: Resident

Alexandra Talley, DDS, TAMU COD. Current position: Private Practice.

Akeira Warner, DDS, TAMU COD. Current position: Private Practice

Alexandra Evans, DDS, TAMU COD. Current position: Resident, Meharry Dental School.

Krysten Barnes, DDS, Current position: Dentist, Private Practice.

Paris Webb, DDS. Current position: Dentist, Private Practice.

Shayna Abie, DDS. Current position: Resident, Pediatric Dentistry, TAMU.

Rakiya Faulkner, MD USCSOMG. Current position: OBGYN Resident, UFL.

Jonathan Stateson, DDS. Current position: Dentist, Private Practice.

Harold Kamura, DDS. Current position: Dentist, Private Practice.

Jane Lee, DDS. Current position: Dentist, Private Practice.

Laura Dinh, DDS. Current position: Dentist, Private Practice.

Nima Deljavan, DDS, MD. Current position: Oral Surgeon, Private Practice.

Drew Vanderbrook, DDS. Current position: Dentist, Private Practice.

Eddie Palos, DDS, MS. Current position: Dentist, Private Practice.

Kimberly Vinson, DDS Current position: Dentist, Private Practice.

Crystal Johnson Stinson, DDS, PhD, MS. Current position: Dentist, Private Practice.

Patricia Adesanya Simons, DDS, MS. Current position: Dentist, Private Practice.

Brandon Baugh, MBA. Current Position: Medical Economics Analyst.

GRADUATE STUDENT COMMITTEES

Kacie Jackson, D4 Student, M.S. Candidate, Education for Health Care Professionals (EDHP), Co-Advisor.

Ian Murray, Ph.D., M.S., Education for Health Care Professionals (EDHP).

Akeira Warner, D4 Student, M.S. Candidate (EDHP) TAMU COD. 2021-present. Advisor.

Ali Sohraby, DDS. M.S. Candidate, Orthodontics, TAMU. 2021-present.

Faisal Alnashmy, BDS. Ph.D. Candidate, Oral Biology, TAMU. 2020-present.

Ken D. Nwankwo, DDS, MS. (EDHP), 2020.

Wendy Vu, MS. Biomedical Sciences, TAMHSC, Baylor College of Dentistry, 2013. Co-Advisor

Jyoti Puri, BDS, PhD. Biomedical Sciences, TAMHSC, Baylor College of Dentistry, 2011.

Leticia Ferreira, DDS, MS. Oral Pathology/Biomedical Sciences MS Program, 2011.

Mani Chopra, DDS, PhD. Biomedical Sciences, TAMHSC, Baylor College of Dentistry, 2009.

Cara Smith-Kessler, DDS, MS. Biomedical Sciences, TAMHSC, MS Program, 2008.

CAREER DEVELOPMENT/MENTORING

Karl Veasey, DDS. TAMUSOD Faculty Mentoring Program. 2023-2024.

Nina Ray, DDS. TAMUSOD Faculty. 2021-present.

Sarah Reed, PhD candidate, Florida A&M University College of Pharmaceutical Sciences.

Washington Akharamen, DDS, Current Position: Resident.

Ashley Guillory, PhD. Current Position: Associate Professor, UTMB.

Katharina Brandl, PhD. Current Position: Associate Professor, UCSD Skaggs School of Pharmacy.

Gagani Athauda, MD. Current Position: Professor, Florida International School of Medicine.

Nicole Kwiek, PhD. Current Position: Clinical Professor, Associate Dean for Undergraduate Studies. Ohio State University College of Pharmacy.

Lauren Getz, DDS. Current Position: Private Practice.

Walter Nwaokolo, DDS, Current Position: Private Practice.

Hayden Han, DDS. Current Position: Resident, University of Michigan Dental School.

Amy Moon, MD. Current Position: Resident.

Kayla Fowler, BS. Current Position: Director of Experiential STEM Programs, Rutgers University.

Andrea Brown-Slater, PharmD. Current Position: Pharmacist.

Urvi Patel, PharmD. Current Position: Pharmacist, Kaiser Permanente.

Michelle Walker, PhD. Current Position: Pharmacologist, FDA.

Kennie Shepherd, PhD. Current Position: Assistant Dean, Associate Professor, Morehouse School of Medicine

Namandje Bumpus, PhD. Current Position: Former FDA Deputy Director. Consultant.

L'Aurelle Johnson, PhD. Current Position: Associate Professor, University of Minnesota College of Pharmacy

PROFESSIONAL AFFILIATIONS

Member, International Society of the Learning Sciences. 2023-present.

Member, TAMU Innovation and Design for Exploration and Analysis in Teaching Excellence (IDEATE) Community, 2021-present.

Member, National Center for Medical Education, Development and Research Community of Practice, 2020-2024.

Member, American Dental Education Association, 2006-2011, 2017-present.

Member, International Association of Medical Science Educators (IAMSE), 2014-present.

Member, American Association of Medical Colleges, 2012-present.

Member, American Society for Pharmacology and Experimental Therapeutics (ASPET), 1998-present.

Member, American Society for Investigative Pathology (ASIP), 2006-2016.
Member, American Association of Immunology, 2006-9, 2011-13.
Trainee Member, American Association of Immunology, 2001- 2006.
Charter Member, University of Michigan Postdoctoral Association, 2003-2006.
Member, National Postdoctoral Association, 2004-2007.
Trainee Member, American Society for Investigative Pathology (ASIP), 2003-2006.

PROFESSIONAL SERVICE

Mentor, ADEA Emerging Leaders Program, 2024-2025.
Mentor, ASPET Mentoring and Career Development Committee, 2023-2024.
Member, ASPET Organizing Committee, 2023-present.
IAMSE Nominating Committee, 2023-2025.
IAMSE Onboarding Taskforce, 2021-2024.
Member, ASPET Task Force and Committee, 2021-2023.
Member, Integrated National Board Dental Education (INBDE) Test Construction Committee, 2020-present.
Member, ASPET Partnerships Committee, 2019-present.
Member, Working Groups 2 and 3, National HBCU Initiative. 2016-2018.
Mentor, Auburn University PASS College of Sciences and Mathematics Program, 2016-2019.
ASBMB Faculty Mentor, Experimental Biology (EB) March 2015.
Member, ASIP Membership Committee, 2015-2016.
Member, ASIP Committee for Career Development, 2006-2016.
Member, ASPET Committee on Mentoring and Career Development, 2016-present.
DPE Academy of Pharmacology Educators Selection Committee, 2014.
Program Committee Representative, DPE, ASPET, 2013-2015.

JOURNAL, MEETING, AND GRANT REVIEW SERVICE

Reviewer, British Journal of Dental Education, 2025-present.
Reviewer, British Journal of Clinical Pharmacology, 2024-present.
Reviewer, Medical Teacher, 2024-present.
Reviewer, Journal of Dental Education, 2023-present.
McDaniel Dissertation Award Review Committee, Converse University, 2021-present.
Reviewer, Pharmacology Research and Perspectives. 2021-present.
Reviewer, Journal of STEM Outreach, 2021-present.
Reviewer, Academic Medicine, 2018-present.
Reviewer, Journal of the National Medical Association, 2018-present.
Member, Board of Grants, American Foundation for Pharmaceutical Education, 2017-present.
Reviewer, International Association of Medical Science Educators (IAMSE) Meeting Abstracts, 2017.
Reviewer, ASPET Travel Awards for Experimental Biology, 2016-present.
Southeastern Symposium on Mental Health Student Award Committee, 2016-17.
Reviewer, ASPET Summer Undergraduate Research Fellow (SURF) Institutional Awards, 2014-2020.
Ad-hoc Reviewer, Neurochemical Research, 2009-present.
Ad-hoc Reviewer, Life Sciences, 2009-present.

INSTITUTIONAL SERVICE

TAMU (University-level)

Vice Provost Promotion and Tenure Task Force, 2025.
Student Experience Project Community of Practice, 2025-present.
University Promotion Committee (APTF), 2023-present.
Academic Affairs Subcommittee, Faculty Senate, 2022-present.
Faculty Senate, School of Dentistry Representative, 2022-present.
Academic Professional Track Faculty (APTF) University Committee, 2020-2024.
Transformational Teaching Grants Advisory Committee, 2019-2020, 2021-2024.
TAMU X Grants Review Committee, 2018-2019.
TAMU Education for Healthcare Professionals (EDHP) Committee/PI, Fall 2018-present.

TAMUSOD/TAMUCOD (College-level)

Strategic Promoters Workgroup, 2023-2024.
2022 Curriculum Revision Taskforce, 2022.
Elected Member, College of Dentistry Dean Search Committee, 2021-22.
External Awards Subcommittee, 2021-present.
SOD APT Committee, 2020-2023
Admissions Committee: 2017-present. 2006-2011.
Faculty Development Committee, 2018-2024.
Curriculum Committee, 2018-2024.
CE Advisory Committee Member, 2018-2024.
Faculty Conduct Review Committee, 2017-2024.
Teaching Peer Reviewer, 2018-present.
Faculty and Mentor, Summer Pre-dental Enrichment Program (SPEP), 2018-2024.
New Curriculum Task Force, Fall 2017-2018.

Biomedical Sciences (Department-level)

Biomedical Sciences Appointment, Promotion and Tenure (APT) Committee, 2021-2025.
Member, Faculty Search Committee, 2018.

University of South Carolina School of Medicine Greenville (USCSOMG)

Academic Coach for M1 and M2 students, USCSOMG 2015-2017.
Biomedical Faculty, Objective Structured Clinical Examination (OSCE), USCSOMG, 2015-2017.
Biomedical Sciences Appointment and Promotion Committee for Non-Tenure Track Faculty, 2015-2017.
Faculty Officer, Faculty Recruitment Committee, 2015-2017.
Faculty Development Committee, 2015-2017.
Curriculum Assessment Taskforce, 2014.
Medical Experience (MedEx) Faculty, Greenville Health System (now PRIZMA Health), 2013-2017.
M2 Academic Committee, 2012-2015.
Curriculum Committee, 2012-2015.
Chair's Advisory Group, Promotion and Tenure Committee, 2012-2013.
Admissions Committee, 2011-2017.
Biomedical Sciences Department Chair Search Committee, USCSOM Greenville, Fall 2011.

TAMHSC Baylor College of Dentistry (BCD)

Research Committee, BCD, TAMHSC 2009-2011.
Faculty Development Committee, BCD, TAMHSC 2009-2011.
Lecturer and Mentor, BCD Summer Pre-dental Enrichment Program (SPEP), 2007-2011, 2018-present.
Biomedical Sciences Faculty Search Committee, BCD, TAMHSC, 2007.

VOLUNTEER WORK/COMMUNITY SERVICE

Music and Healthcare Ministry, Friendship -West Baptist Church, Dallas, Tx 2022-present.

Student Research Mentor, Annual Biomedical Research Conference for Minoritized Students (ABRCMS), 2020-present. Coach students giving oral and poster presentations at the meeting and give career development advice.

Member, South Dallas Business and Professional Women's Clubs, Inc. (SDBPWC) 2006-2011, 2017-present.

Mentor for Children in Foster Care, Fostering Great Ideas, Greenville, SC. 2015-2017.

Faculty Mentor, FASEB/MARC Program, ABRCMS, 2009-2020.

South Dallas Business and Professional Women's Clubs, Inc. (SDBPWC) 2006-2011, 2017-present.

Corresponding Secretary and Newsletter Editor, 2009-2012.

Board Member/Scholarship Director, Quality of Life/Back-to-School Foundation, 2004-2006.

Peer Mentor, FASEB Program, Experimental Biology 2003- 2009.

Math/Science Instructor, Second Baptist Church Academic Enrichment program, 2003-2006.

Mentor, University of Michigan Undergraduate Research Opportunities Program, 2003-2005.

Member, Alpha Kappa Alpha Sorority, Inc. 1983-present.

COMMUNITIES OF PRACTICE

1. Member, Innovation and Design for Exploration and Analysis in Teaching Excellence (IDEATE) Community. A community of scholars who design and implement evidence-based high-impact practices, 2021-present. <https://cte.tamu.edu/Communities,-Programs-and-Models/IDEATE-Community>
2. Member, Meharry National Center on Medical Education, Development and Research (NCMEDR) Community of Practice. Curriculum Consultant 2017-2024.