



RESEARCH ACCOMPLISHMENTS



JULY / AUGUST 2021

PUBLICATIONS:

Currens GC, Sankpal UT, Basha R, Cheng EY. Cytotoxic Activities of Aspergillin PZ and Trichoderone B from an Isolate of *Aspergillus flavipes* sp. Against NCI-60 Human Tumor Cell Lines. *Rec. Nat. Prod.* 2021 June 3. DOI: <http://doi.org/10.25135/rnp.254.21.03.2010>. Online ahead of print.

Wei H, Ma W, Lu X, Liu H, Lin K, Wang Y, Ye Z, Sun L, Huang Z, Pan T, Zhou Z, Cheng EY, Zhang H, Gao P, Zhong X. KDELR2 promotes breast cancer proliferation via HDAC3-mediated cell cycle progression. *Cancer Commun (Lond)*. 2021 Jun 19. doi: 10.1002/cac2.12180. Online ahead of print. PMID: 34146461.

Currens G and Cheng EY. Aspochalasins, a structurally diverse fungal derived bioactive sub-group of cytochalasans and their activities. *Natural Products Chemistry & Research*. 2021 June 14; 9:4. Online ahead of print.

Tanaudommongkon I, Tanaudommongkon A, Dong X. Development of In Situ Self-Assembly Nanoparticles to Encapsulate Lopinavir and Ritonavir for Long-Acting Subcutaneous Injection. *Pharmaceutics*. 2021 Jun 18;13(6):904. doi: 10.3390/pharmaceutics13060904. PMID: 34207272.

Deville RL, Fellers CM, Howard ML. Lessons learned pivoting to a virtual OSCE: Pharmacy faculty and student perspectives. *Currents in Pharmacy Teaching and Learning*, In Press, <http://dx.doi.org/10.1016/j.cptl.2021.06.046>, available online 20 June 2021.

Steuber T, Isaacs AN, Howard ML and Nisly SA. Evaluation of Journal Club Versus Clinical Debate Activities Within Pharmacy Experiential Education. *American Journal of Pharmaceutical Education*. 2021 Jul 22:8562. doi: 10.5688/ajpe8562. Online ahead of print. PMID: 34301550.

Interrante JD, Scroggs SLP, Hogue CJ, Friedman JM, Reefhuis J, Jann MW, Broussard CS; National Birth Defects

Prevention Study. Prescription opioid use during pregnancy and risk for preterm birth or term low birthweight. *J Opioid Manag.* 2021 May-Jun; 17(3):215-225. doi: 10.5055/jom.2021.0632. PMID: 34259333.

Lam TN, Nicholas SE, Choi A, Ma JX, Karamichos D. Cellular Contractility Profiles of Human Diabetic Corneal Stromal Cells. *Anal Cell Pathol (Amst)*. 2021 Jun 4; 2021:9913210. doi: 10.1155/2021/9913210. eCollection 2021. PMID: 34194958.

Whelchel AE, Nicholas SE, Ma JX, Karamichos D. Nerve influence on the metabolism of type I and type II diabetic corneal stroma: an in vitro study. *Sci Rep.* 2021 Jul 1; 11(1):13627. doi: 10.1038/s41598-021-93164-1. PMID: 34211074.

Rasu RS, Shrestha N, Karpes Matusevich AR, Zalmai R, Large S, Johnson L, O'Bryant SE. Polypharmacy and Cognition Function Among Rural Adults. *J Alzheimers Dis.* 2021; 82(2):607-619. doi: 10.3233/JAD-200951. ePub 2021 May 27. PMID: 34057144.

Wei W, Rasu RS, Hernández-Muñoz JJ, Flores RJ, Rianon NJ, Hernández-Vizcarrondo GA, Brown AT. Impact of Fall Risk and Direct Oral Anticoagulant Treatment on Quality-Adjusted Life-Years in Older Adults with Atrial Fibrillation: A Markov Decision Analysis. *Drugs Aging.* 2021 Jul 8. doi: 10.1007/s40266-021-00870-6. Online ahead of print. PMID: 34235644.

Wiener RC, Findley PA, Shen C, Dwibedi N, Sambamoorthi U. Acculturation and dental sealant use among US children. *Community Dent Oral Epidemiol.* 2021 Jul 12. doi: 10.1111/cdoe.12678. Online ahead of print. PMID: 34251694.

Trout RE, Zulli A, Mesaros E, Jackson RW, Boyd S, Liu B, Hamrick J, Daigle D, Chatwin CL, John K, McLaughlin L, Cusick SM, Weiss WJ, Pulse ME, Pevear DC, Moeck G, Xerri L, Burns CJ. Discovery of VNRX-7145 (VNRX5236 Etzadroxil): An Orally Bioavailable β -Lactamase Inhibitor for Enterobacterales Expressing Ambler Class A, C, and D Enzymes. *J Med Chem.* 2021 Jun 30. doi: 10.1021/acs.jmedchem.1c00437. Online ahead of print. PMID: 34191513.

White A. Book chapter in *Spirituality in Pharmacy: Providing Holistic Care – It's More Than Medicine*. Mark S. Johnson, ed. American Pharmacists Association, 30 June 2021.

Yan LJ. Comment on Kobroob et al. Effectiveness of N-Acetylcysteine in the Treatment of Renal Deterioration Caused by Long-Term Exposure to Bisphenol A. *Biomolecules* 2021, 11, 655. *Biomolecules* 2021, 11, 888. <https://doi.org/10.3390/biom11060888>.

Hellmich MR, Chao C, Módis K, Ding Y, Zatarain JR, Thanki K, Maskey M, Druzhyna N, Untereiner AA, Ahmad A, Xue Y, Chen H, Russell WK, Wang Jianmei, Zhou J and Szabo C. Efficacy of Novel Aminooxyacetic Acid Prodrugs in Colon Cancer Models: Towards Clinical Translation of the Cystathionine β -Synthase Inhibition Concept. *Biomolecules* 2021, 11(8), 1073; <https://doi.org/10.3390/biom11081073> - 21 Jul 2021.

PRESENTATIONS:

Wettergreen S, White A, Atanda A. The Benefits of STRESS©: Identification of Methods to Mitigate Faculty Burnout. AACP Annual Meeting Virtual Pharmacy Education 2021, July 20, 2021.

Prasad-Reddy L, Hughes J, Fuentes D, Fleming M, Robinson K. First Things First: Successful Strategies for Transitioning into a New Leadership Position. AACP Annual Meeting Virtual Pharmacy Education 2021, July 21, 2021.

Gibson C, Howard M. Design and Evaluation of an Advanced Cardiovascular Elective for APPE Readiness. AACP Annual Meeting Virtual Pharmacy Education 2021, pre-recorded for on-demand viewing, available beginning July 19, 2021 and ending 3 months post-conference.

Steuber T, Howard M. Research and Scholarship for Junior Clinical Faculty: Boom or Bust. AACP Annual Meeting Virtual Pharmacy Education 2021, July 19, 2021.

O'Donnell J, Coop A, Swaan P, Madhavan S. Approaches to Funding Graduate Students and Graduate Programs. AACP Annual Meeting Virtual Pharmacy Education 2021, July 20, 2021.

Fulda K, Sambamoorthi U. Prototype of a Harmonized Healthcare Database Across Institutions. 2021 JPS Research & Quality Symposium, June 4, 2021.

Wesling M, Wargo R. The Nuts and Bolts to Billing and Reimbursement for Pharmacist Services. American College of Clinical Pharmacy Ambulatory Care PRN. Webinar presented June 7, 2021.

VIRTUAL POSTER PRESENTATIONS:

Fix J, Ssemantu F, Patel D, Killam-Worrall L. Evaluation of Students' Confidence and Competence of Over the Counter

(OTC) Consult Skills. AACP Annual Meeting Virtual Pharmacy Education 2021, July 19-22, 2021.

Haight RC, Brooks MJ. Team Based Learning and its Contribution to Communication Skill Development in Student Pharmacists. AACP Annual Meeting Virtual Pharmacy Education 2021, July 19-22, 2021.

Palasik B, Howard M, Ramanathan M, White A. Lessons Learned during the COVID-19 Shutdown: Recommendations for Future University Pandemic Responses. AACP Annual Meeting Virtual Pharmacy Education 2021, July 19-22, 2021.

Fiano R, LeMasters T, Merrick G, Innes K, Mattes M, Shen C, Sambamoorthi U. Healthcare Expenditures Associated with Low-Value Care Among Older Men with Incident Localized Prostate Cancer: Statistical and Machine Learning Approaches. AcademyHealth Annual Research Meeting, June 2021.

Yan LJ. Role of pancreatic mitochondrial complex I in pathogenesis of diabetes. FASEB NAD+ Metabolism and Signaling Conference, June 15-16, 2021.

GRANTS/CONTRACTS AWARDED:

Kyle Emmitte – Vanderbilt University / NINDS; \$148,285; Slack Potassium Channel Inhibitors for the Treatment of Childhood Epilepsies; 1/1/21 - 12/31/21.

Marc Fleming – NIMHD; \$365,000; Texas Center of Minority Health, Education, Research and Outreach; 6/1/21 - 5/31/22.

Marc Fleming – University of Houston / SAMHSA; \$80,000; Texas Improved Dissemination and Evaluation of SingleUse Disposal Pouches (TIDES) (amendment to the original contract for additional work); 10/1/20 – 8/31/21.

Denise Inman – Industry Sponsored Project; \$7,963; Neuroprotective Effect of Transferrin in Bead-induced Rat Model of Glaucoma; 7/15/21 - 8/31/21.

Jin Liu – Summerfield G. Roberts Foundation; \$25,000; COVID-19 Therapeutic Development for Elderly Patients by the Development of Allosteric Ligand for the Sigma-1 Receptor; 8/1/21 - 1/31/23.

Julio Rincon – NIMHD; \$30,000; STAR Pilot Program; Microfluidic in-vitro platform for the evaluation of therapeutics and carrier drugs in breast cancer tissue; 6/1/21 - 5/31/22.

William Weiss – Industry Sponsored Project; \$92,799.60; Dose Fractionation of Test Article in the murine thigh infection model with select Enterobacteriaceae isolates (amendment to the original contract for additional work); 1/13/21 - 1/12/22.

William Weiss – Industry Sponsored Project; \$9,930.54;
Murine dermonecrosis model with *S. aureus* and efficacy of
anti-virulence compounds; (second amendment to the
original contract for additional work); 2/22/21 - 3/14/22.

William Weiss – Industry Sponsored Project; \$12,488.36;
Efficacy of Compound Formulations in the *S. aureus*
Intrauterine Infection Model in Mice; 6/28/21 - 6/27/22.

William Weiss – Industry Sponsored Project; \$19,364.00;
Efficacy Study of Drug Combination in Murine Lung Infection
Model; 5/31/21 - 12/31/21.

William Weiss – UNTHSC Internal Project; \$3,236.40;
Pharmacokinetics of LS-1-127 mice; 6/9/21 - 6/8/22.

William Weiss – Industry Sponsored Project; \$75,549.59;
Efficacy of Select Compound in the Extended Murine
Prosthetic Joint Infection (PJI) with a resistant *Staphylococcus*
clinical isolates; 6/22/21 - 6/21/22.

William Weiss – Industry Sponsored Project; \$27,735.46; Test
Article Efficacy Study in the Murine Urinary Tract Infection
Model with *Pseudomonas aeruginosa*; 6/30/21 - 6/29/22.

William Weiss – Industry Sponsored Project; \$12,637.08;
Determination of safety / tolerability of submitted novel test
articles; 7/8/21 - 7/7/22.

William Weiss – Industry Sponsored Project; \$28,095.20;
Efficacy of novel test article in the Murine Lung Model with *S.*
aureus; 7/13/21 - 7/12/22.

William Weiss – Industry Sponsored Project; \$40,459.32;
Efficacy of novel test article in the Rabbit Lung Infection
Model with *K. pneumoniae*; 7/14/21 - 7/13/22.

William Weiss – Industry Sponsored Project; \$3,647.16;
Determination of safety / tolerability of submitted novel test
article w/wo Levofloxacin; 7/29/21 - 7/28/22.

Annesha White – DSHS (RS00039); \$35,777; HSR8-TBWVR
Program, Cost and Savings Analysis for the Waiver Project;
5/1/21 - 4/30/22.