



RESEARCH ACCOMPLISHMENTS



SEPTEMBER 2021

PUBLICATIONS:

Tran J, Gervase MA, Evans J, Deville R, Dong X. The stability of quetiapine oral suspension compounded from commercially available tablets. *PLoS One*. 2021 Aug 10; 16(8):e0255963. doi: 10.1371/journal.pone.0255963. eCollection 2021. PMID: 34375349.

Li L, He S, Liu Y, Yorio T, Ellis DZ. Sigma-1R Protects Retinal Ganglion Cells in Optic Nerve Crush Model for Glaucoma. *Invest Ophthalmol Vis Sci*. 2021 Aug 2; 62(10):17. doi: 10.1167/iovs.62.10.17. PMID: 34406331.

Millard JW, Howell CK, Palasik BN. Asymptomatic But Altered? When Urinalysis Holds the Key. *Sr Care Pharm*. 2021 Aug 1; 36(8):381-386. doi: 10.4140/TCP.n.2021.381. PMID: 34311816.

Jassim AH, Inman DM, Mitchell CH. Crosstalk Between Dysfunctional Mitochondria and Inflammation in Glaucomatous Neurodegeneration. *Front Pharmacol*. 2021 Jul 21; 12:699623. doi: 10.3389/fphar.2021.699623. eCollection 2021. PMID: 34366851.

McKay TB, Priyadarsini S, Rowsey T, Karamichos D. Arginine Supplementation Promotes Extracellular Matrix and Metabolic Changes in Keratoconus. *Cells*. 2021 Aug 13;10(8):2076. doi: 10.3390/cells10082076. PMID: 34440845.

Khalid S, Sambamoorthi U, Umer A, Lilly CL, Gross DK, Innes KE. Increased Odds of Incident Alzheimer's Disease and Related Dementias in Presence of Common Non-Cancer Chronic Pain Conditions in Appalachian Older Adults. *J Aging Health*. 2021 Aug 5:8982643211036219. doi: 10.1177/08982643211036219. Online ahead of print. PMID: 34351824.

Howard GP, Bender NG, Khare P, López-Gutiérrez B, Nyasembe V, Weiss WJ, Simecka JW, Hamerly T, Mao H-Q, Dinglasan RR. Immunopotentiality by Lymph-Node Targeting of a Malaria Transmission-Blocking Nanovaccine. *Frontiers in Immunology*. 2021 August; 12:729086. doi: 10.3389/fimmu.2021.729086.

PRESENTATIONS:

Hongli Wu. Ocular Drug Discovery: Novel targets and mechanisms for cataract and retinal degeneration. Department of Physiology and Pharmacology, Sam Houston State University College of Osteopathic Medicine. Conroe, Texas, August 13, 2021. Invited seminar speaker.

VIRTUAL POSTER PRESENTATIONS:

None submitted.

GRANTS/CONTRACTS AWARDED:

Xiaowei Dong — National Institute of General Medical Sciences (NIGMS); \$365,544.00; Novel Formulation Technology to Enhance Oral Absorption of Water-Insoluble Drugs; 7/1/21 - 6/30/22. (Year 2 of 5)

Xiaowei Dong — National Institute of General Medical Sciences (NIGMS); \$24,769.00; Novel Formulation Technology to Enhance Oral Absorption of Water-Insoluble Drugs (supplement); 7/1/21 - 6/30/22.

William Weiss — Industry Sponsored Project; \$29,338.88; Efficacy and Pharmacokinetics of novel test articles in a murine lung infection model with *Klebsiella pneumoniae*; 7/14/21 - 7/13/22.

William Weiss — Industry Sponsored Project; \$111,584.84; Pharmacokinetics and Dose Response/Fractionation of novel test article in the murine lung infection model with select enterobacteriaceae isolates. 7/28/21 - 7/27/22.

William Weiss — Institute Sponsored Project; \$9,462.46; Efficacy in the Murine Thigh Infection Model with *S. aureus*. 7/26/21 - 7/25/22.

William Weiss — UNTHSC Internal Project; \$4,393.80; Pharmacokinetics of LS-1-127 mice (additional studies); 8/3/21 – 8/2/22.