



RESEARCH ACCOMPLISHMENTS

hsc  College of Pharmacy

APRIL 2021

PUBLICATIONS:

Patel, et.al. (includes **Ellis DZ** and Zode G). Impaired TRPV4-eNOS signaling in trabecular meshwork elevates intraocular pressure in glaucoma. *PNAS*. *in press*.

Qunies AM, Emmitte KA. Negative allosteric modulators of group II metabotropic glutamate receptors: A patent review (2015 – present). *Expert Opinion on Therapeutic Patents*, 2021 Mar 14. doi: 10.1080/13543776.2021.1903431. Online ahead of print. PMID: 33719801.

Jassim AH, **Fan Y, Pappenhagen N, Nsiah NY, Inman DM**. Oxidative Stress and Hypoxia Modifies Mitochondrial Homeostasis During Glaucoma. *Antioxid Redox Signal*. 2021 Mar 19. doi: 10.1089/ars.2020.8180. Online ahead of print. PMID: 33736457.

Yuet WC, Ebert D, **Jann M**. Neurocognitive effects associated with proprotein convertase subtilisin-kexin type 9 inhibitor use: a narrative review. *Ther Adv Drug Saf*. 2021 Mar 8; 12:2042098620959271. doi: 10.1177/2042098620959271. eCollection 2021. PMID: 33763200. Review.

Shah D, Zheng W, Allen L, Wei W, LeMasters T, **Madhavan S, Sambamoorthi U**. Using a machine learning approach to investigate factors associated with treatment-resistant depression among adults with chronic non-cancer pain conditions and major depressive disorder. *Curr Med Res Opin*. 2021 Mar 9;1. doi: 10.1080/03007995.2021.1900088. Online ahead of print. PMID: 33686881.

Garg R, **Sambamoorthi U**, Tan X, Basu SK, Haggerty T, Kelly KM. Impact of Diffuse Large B-Cell Lymphoma on Mammography and Bone Density Testing in Women. *J Prim Prev*. 2021 Mar 12. doi: 10.1007/s10935-021-00621-8. Online ahead of print. PMID: 33710443.

White A, Srinivasan M, Wingate LM, Peasah S, **Fleming M**. Development of a pharmaco-economic registry: an example using hormonal contraceptives. *Health Econ Rev*. 2021 Mar 20; 11:10. <https://doi.org/10.1186/s13561-021-00309-z>. PMID: 33745016.

PRESENTATIONS:

Yan LJ. Invited speaker. Reductive stress complex I hyperactivities and diabetes. 20th Biennial Meeting of Society for Free Radical Research International, March 15-18, 2021 (virtual). Oral presentation delivered March 18, 2021.

Currens G, Cheng E. Microbial Natural Product Drug Discovery Through Systematic Sampling of Diverse Texas Soils. Research Appreciation Day, University of North Texas Health Science Center, March 22-26, 2021, Abstract ID UNTHSC443. Oral presentation delivered March 24, 2021.

HONORS & ACHIEVEMENTS:

Xiaowei Dong. Invited to participate in the review of a group of R21/R03 applications submitted in response to NCI's Funding Opportunity Announcement (FOA) PAR-20-292 (R21) and PAR-20-052 (R03) in June 2021.

Dimitrios Karamichos. Invited to be a permanent/chartered member of the Pathophysiology of Eye Disease 2 study section at NIH.

Dimitrios Karamichos. Invited for an interview for a radio show called Eye on Vision (<http://eyeonvision.blogspot.com>) that focuses on the latest in eye research discussing "the increasing prevalence of keratoconus, KC's high prevalence in the Down Syndrome population, and how you are working with the biospecimens collected by the DSA Biobank in Cincinnati."

Dimitrios Karamichos. [Featured Press Release](#) related to his funded R21 project "Exploring the role of gonadotropins in Down syndrome" in collaboration with Dr. Melissa Petersen.

S. Suresh Madhavan. Recipient of the 2021 Research Achievement Award in the Pharmaceutical Sciences, presented by the American Pharmacists Association (APhA) Academy of Pharmaceutical Research & Science Awards. Dr. Madhavan was recognized for his outstanding research achievements, international work, grant funding, and the number of graduate students supported throughout his career.

Hongli Wu. Asked to serve a second term as a Session Chair for the Metrocon 2021 IEEE Conference in Hurst, Texas on November 6, 2021. The title of her session is Biotechnology and will be a joint session with both biomedical researchers and engineers. The IEEE is the world's largest professional association advancing innovation and technological excellence for the benefit of humanity. IEEE is the trusted "voice" for engineering, computing and technology information around the globe.

Hongli Wu. Invited as a platform speaker in the Oxygen and Redox Control of Lens Differentiation, Homeostasis and Transparency session to be presented at the 25th Biennial ISER Meeting to be held in the Gold Coast, Queensland, Australia, on September 18-22, 2022.

GRANTS/CONTRACTS AWARDED:

William Weiss - Industry Sponsored Projects:

- \$4,922.12; Determination of safety and tolerability of different test compound lots; 2/22/21 - 2/21/22.
- \$38,996.10; Time-kill curve assay and murine UTI model with select test article against *E. coli* isolates; 3/9/21 - 3/8/22.
- \$36,175.92; Tolerability and Pharmacokinetics of Selected Test Article(s) in Sprague-Dawley Rats; 3/3/21 - 3/2/22.
- \$45,274.66; Efficacy of a test compound in the Extended Murine Prosthetic Joint Infection (PJI) with a Fluoroquinolone-resistant *Staphylococcus aureus*; 3/18/21 - 3/17/22.
- \$9,930.54; Murine dermonecrosis model with *S. aureus* and efficacy of anti-virulence compounds (amendment to the original contract for additional work); 2/22/21 - 2/21/22.
- \$3,216.66; Determination of safety and tolerability of formulations of a select test compound; 3/23/21 - 3/22/22.
- \$37,208.08; Efficacy of Novel Test Articles in the Infant Rat Sepsis Infection Model with Nontypeable *Haemophilus influenza* (NTHi); 3/31/21 - 3/30/22.

