



RESEARCH ACCOMPLISHMENTS

hsc  College of
Pharmacy

FEBRUARY - MARCH 2021

PUBLICATIONS:

Stankowska DL, Millar JC, Kodati B, Behera S, Chaphalkar RM, Nguyen T, Nguyen KT, Krishnamoorthy RR, **Ellis DZ**, Acharya S. Nanoencapsulated hybrid compound SA-2 with long-lasting intraocular pressure-lowering activity in rodent eyes. *Molecular Vision* 2021; 27:37-49.

<http://www.molvis.org/molvis/v27/37>. Published 16 January 2021.

Alhussain K, Kido K, Dwibedi N, LeMasters T, Rose DE, Misra R, **Sambamoorthi U**. Identifying knowledge gaps in heart failure research among women using unsupervised machine-learning methods. *Future Cardiol*. 2021 Jan 11. doi: 10.2217/fca-2020-0083. Online ahead of print. PMID: 33426899.

Le S, Chang CM, Nguyen T, Liu Y, Chen YA, Hernandez E, Kapur P, Hsieh JT, Johnston K, **Dong X**. Anticancer Efficacy of Oral Docetaxel Nanoformulation for Metronomic Chemotherapy in Metastatic Lung Cancer. *J Biomed Nanotechnol*. 2020 May 1; 16(5):583-593. doi: 10.1166/jbn.2020.2925. PMID: 32919479.

Schüß C, Vu O, Schubert M, Du Y, **Mishra NM**, Tough IR, Stichel J, Weaver CD, **Emmitte KA**, Cox HM, Meiler J, Beck-Sickinger AG. Highly Selective Y4 Receptor Antagonist Binds in an Allosteric Binding Pocket. *J Med Chem*. 2021 Feb 17. doi: 10.1021/acs.jmedchem.0c02000. Online ahead of print. PMID: 33595306.

Howard ML, Atanda A, Gaviola ML. A multipronged approach to teaching end-of-life care to student pharmacists. *J Am Coll Clin Pharm*. 2021; 1–9. <https://doi.org/10.1002/jac5.1399>.

Klionsky DJ, Abdel-Aziz AK, Abdelfatah S, ...(list condensed), **Inman DM**, ...(list condensed), Stallings CL, Tong CK. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*. 2021 Feb 8: 1-382. doi: 10.1080/15548627.2020.1797280. Online ahead of print. PMID: 33634751.

Patel J, Ladani A, Sambamoorthi N, LeMasters T, Dwibedi N, **Sambamoorthi U**. A Machine Learning Approach to Identify Predictors of Potentially Inappropriate Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) Use in Older Adults with Osteoarthritis. *Int J Environ Res Public Health*. 2020 Dec 28; 18(1):155. doi: 10.3390/ijerph18010155. PMID: 33379288.

Rai P, Shen C, Kolodney J, Kelly KM, Scott VG, **Sambamoorthi U**. Factors associated with immune checkpoint inhibitor use among older adults with late-stage melanoma: A population-based study. *Medicine (Baltimore)*. 2021 Feb 19; 100(7):e24782. doi: 10.1097/MD.00000000000024782. PMID: 33607829.

Chiari EF, **Weiss W**, Simon MR, Kiessig ST, **Pulse M**, Brown SC, Gerding HR, Mandago M, Gisch K, von Eichel-Streiber C. Oral Immunotherapy with Human Secretory IgA Improves Survival in the Hamster Model of *Clostridioides difficile* Infection. *J Infect Dis*. 2021 Feb 15:jjab087. doi: 10.1093/infdis/jjab087. Online ahead of print. PMID: 33588433.

HONORS & ACHIEVEMENTS:

Xiaowei Dong. Invited to participate on a NCI Review Panel March 4-5, 2021 for 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).

William J. Weiss. Invited by PEW Charitable Trusts to participate in their Stand up to Superbugs initiative March 1-5, 2021. During the virtual meetings, Bill along with other ambassadors will be meeting with Senators and Congressmen from the local area to urge for support of antibiotic drug discovery and development.

Liang-Jun Yan. Invited to submit a full application by March 12th for the O'Brien Kidney Center, Pilot and Feasibility Grant Program following review of his Letter of Intent submitted on January 5, 2021. This grant application is for \$35,000 for one year.

Liang-Jun Yan. Invited to serve a three-year term as an editorial board member for the journal *Biomolecules*.

GRANTS/CONTRACTS AWARDED:

Dimitrios Karamichos — University of Oklahoma Health Science Center / NEI; \$73,000; A Novel Pathogenic Pathway for Diabetic Keratopathy; 9/1/20 - 8/31/21.

Michail Kastellorizios — Texas Center for Health Disparities; \$20,000; renewal of his U54 Pilot Project; Metastatic Breast Cancer Health Disparities: Importance of the Extracellular Matrix Interface; 1/1/21 - 12/31/21.

William Weiss — Industry Sponsored Project; \$43,870.82; Efficacy of a Novel Antibody in the Rat Endocarditis Infection Model with *Staphylococcus aureus*

William Weiss — Industry Sponsored Project; \$51,739.52; Dose Fractionation of Test Article in the murine thigh infection model with select Enterobacteriaceae isolates

Ayyappa Chaturvedula — University of Florida / Bill & Melinda Gates Foundation; \$53,698; Application of physiologically-based pharmacokinetic models to inform dosing recommendations for hormonal contraceptives co-administered with other medications; 11/1/20 - 10/31/22.

Dorette Ellis - Texas Center for Health Disparities; \$20,000; renewal of her U54 Pilot Project; Intraocular pressure regulation in African Americans; 1/1/21 - 12/31/21.

William Weiss — Industry Sponsored Project; \$30,129; Efficacy of a Novel Antibody in the Murine Lung infection Model with *Streptococcus pneumoniae*; 1/19/21 - 1/18/22.

William Weiss — Industry Sponsored Project; \$4,699.84; Determination of safety and tolerability of different Amicidin- β lots; 1/21/21 - 1/20/22.

William Weiss — Industry Sponsored Project; \$13,506.04; *In vitro Clostridioides difficile* toxin neutralization assay by *Saccharomyces boulardii* & *cerevisiae*; 2/22/21 - 2/23/22.

William Weiss — Industry Sponsored Project; \$4,722.82; Determination of safety and tolerability of different Amicidin- β lots; 2/11/21 - 2/10/22.

William Weiss — Industry Sponsored Project; \$28,479.82; Dose Response Efficacy of a proprietary compound in the murine neutropenic lung infection model with *S. aureus*; 2/24/21 - 2/23/22.

William Weiss — Industry Sponsored Project; \$69,546.62; Efficacy comparison of two test compounds in a clindamycin-induced CDI model and a ceftriaxone-induced CDI model, in hamsters; 2/9/21 - 2/80/22.

