

CONGRATULATIONS To...

AUGUST GRADUATES



Allison Norvil

Next Stop:
Lead Enzymologist for Eli Lilly in Indianapolis. We wish her the best of luck in her new position!



Aaron Benjamin

Next Stop:
Postdoc at Texas A & M.
We wish him the best of luck in his new position!

GOING THE EXTRA MILE...

Dr. Natalia Duderava on publishing her book titled "Biology of Plant Volatiles". It is available to purchase at retailers such as Amazon, Barnes & Noble and Google Play Books.

Dr. Natalia Duderava gave a talk entitled "Expanding our horizons on emission and perception of plant volatiles" at the Plant Biology 2020 ASPB Annual Meeting, Washington, DC, July 27 -31.

Dr. Andy Mesecar gave the keynote seminar, "Targeting Coronaviral Proteases with Broad-Spectrum, Small Molecule Drugs" at the Virtual Translational Medicine Colloquia series at the University of California, Riverside, School of Medicine, June 29, 2020.

GRANTS...

Ryan Benke (Dilkes lab) was awarded a \$180,000 over 3 years as a USDA NIFA Predoctoral Fellowship for his project titled "Metabolic and genetic characterization of maize lesion mimic

mutants".

Sherlene Brown (Mattoo lab) was awarded a T32 Fellowship for 2020-2021 from the Drug Discovery in Infectious Disease Training Program .

Dr. Brian Dilkes was awarded a \$153,483 grant from the Donald Danforth Plant Science Center for his proposal "Elucidating the molecular mechanisms underlying drought resilience in sorghum".

Emily Johnson (Ogas lab) is a 2020 Summer Undergraduate Research Fellow (SURF) recipient from ASPB for her project "Examining the Role of PKL in DNA Damage Repair in the Homologous Recombination Pathway".

Dr. Xing Liu was awarded a \$228,877 three-year grant from The American Heart Association for her proposal titled "Role of Cand2, a Heart and Skeletal Muscle Specific Protein, in Regulating protein ubiquitination and degradation".

Dr. Jeremy Lohman was awarded a \$25,000 grant from the Purdue Institute for Drug Discovery for his proposal titled "Discovery of Acetyl-CoA Carboxylase Futile Cycle Inducers as Drug Leads".

Dr. Andy Tao was awarded a \$299,979 grant from NIH/NIGMS for his proposal "Developing high throughput measurement of thiopurine in DNA by mass spectrometry".

Dr. Andy Tao was awarded a \$244,909 grant from NIH/NIA for his proposal "Developing EV surface proteins as biosignatures for Alzheimer's disease (AD)".

Dr. Jen Wisecaver (Co-PI) was awarded a \$392,205 two-year grant from the National Science Foundation to develop a campus cloud ecosystem that will knit together data, instruments and computing resources for researchers who need interactive computing capabilities beyond traditional batch high-performance computing.

RECENT PUBLICATIONS...

Thielen, P.M., A.L. Pendleton, R.A. Player, K.V. Bowden, T.J. Lawton, **J.H. Wisecaver**. 2020. Reference Genome for the Highly Transformable *Setaria viridis* ME034V. G3(Bethesda) g3.401345.2020

Auber, R.P., T. Suttiyt, R.M. McCoy, M. Ghaste, J.W. Crook, A.L. Pendleton, J.R. Widhalm, **J.H. Wisecaver**. 2020. Hybrid de novo genome assembly of red gromwell (*Lithospermum erythrorhizon*) reveals evolutionary insight into shikonin biosynthesis. *Hortic Res.*, (1) 7:82

DeMarco, A.G., K.L. Milholland, A.L. Pendleton, J.J. Whitney, P. Zhu, D.T. Wesenberg, M. Nambiar, A. Pepe, S. Paula, J. Chmeliewski, **J.H. Wisecaver**, **W.A. Tao**, **M.C. Hall**. 2020. Conservation of Cdc14 phosphatase specificity in plant fungal pathogens: implications for antifungal development. *Sci Rep.* 10 (1);12073

Hsu, C,C.F. Tsai, **W.A. Tao**, P. Wang. 2020. Phosphoproteomic Strategy for Profiling Osmotic Stress Signaling in Arabidopsis. *Journal of Visualized Experiments. J Vis Exp.*, 160: epub61489

Iliuk, A., X. Wu, L.Li, J. Sun, M. Hadisurya, R. Boris, **W.A. Tao**. 2020. Plasma-derived EV Phosphoproteomics through Chemical Affinity Purification. *J Proteome Res.*, 19(7) 2563-2574

Kluz, P. N., R. Kolb, Q. Xie, N. Borchering, Q. Liu, Y. Luo, M.C. Kim, L. Wang, Y. Zhang, W. Li, C. Stipp, K.N. Gibson-Corley, C. Zhao, H.H. Qi, A. Bellizzi, **W.A. Tao**, S. Sugg, R.J. Weigel, D. Zhou, X. Shen, W. Zhang. 2020. Cancer cell-intrinsic function of CD177 in attenuating β -catenin signaling. *Oncogene*, 39(14):2877–2889

Hohner, R., M. Pribil, M. Herbstova, L.S. Lopez, H.H. Kunz, M. Li, M. Wood, V. Svoboda, **S. Puthiyaveetil**, D. Leister, H. Kirchoff. 2020. Plastocyanin is the long-range electron carrier between photosystem II and photosystem I in plants. *Proc. Natl. Acad. Sci. USA*, 117(26):15354-15362

Lynch, J.H., Y. Qian, L. Guo, I. Maoz, X.Q. Huang, A. S. Garcia, G. Louie, M. E. Bowman, J. P. Noel, J.A. Morgan, **N. Dudareva**. 2020. Modulation of auxin formation by the cytosolic phenylalanine biosynthetic pathway. *Nat. Chem Biol.*, 16(8):850-856

IMPORTANT DATES...

Please join us for the Department of Biochemistry Virtual Seminar Series.
All seminars will begin at 3:30 pm, unless otherwise noted.

https://zoom.us/j/9577929238_pwd=TFRIVmlYdkc0NjdQVmhzSUVzRHMxdz09
(Meeting ID: 957 792 9238 Passcode: biochem20)

August 25	Dr. Andy Mesecar, Purdue University, Biochemistry
September 1	Emma Lendy, PhD student (Mesecar Lab), Biochemistry
September 1	Steven McKenzie, PhD student (Puthiyaveetil Lab), Biochemistry
September 8	Srishti Chakravorty, PhD student (Kazemian Lab), Biochemistry
September 8	Iskander Ibrahim, PhD student (Puthiyaveetil Lab), Biochemistry
September 15	Dr. Bin Tian, The Wistar Institute Cancer Center
September 22	Dr. Sonja Best, NIH, Virology
September 29	Dr. Chunyuan Jin, NYU Grossman School of Medicine