

## SEPTEMBER 2020 BIOCHEMISTRY NEWS

### CONGRATULATIONS TO...

8 Martin Agriculture Research Scholarship Program winners for Fall 2020 & Spring 2021. The Martin Ag Research Scholarship program is the College's most prestigious undergraduate research accomplishment for our students. The following Scholars will receive a \$1000 scholarship for fall and spring to support their academic pursuits and research study ambitions. Faculty mentors receive \$500 in research funding. **Kamaya Bakhle**, mentor Vikki Weake, **Alyssa Easton**, mentor Vikki Weake, **Livia Georgescu**, mentor Scott Briggs, **Huijia Gong**, mentor, Jen Wisecaver, **Clayton Hicks**, mentor Ann Kirchmaier, **Renqi Li**, mentor, Natalia Dudareva, **Emily Johnson**, mentor, Joe Ogas, and **Caroline Marks**, mentor, Clint Chapple.

**Sherlene Brown** (Mattoo lab) won first prize for Best Seminar Presentation at the Virtual International Bordetella Research Day conference held August 6, 2020.

### August B.S. graduates:



Dominik Bozek-Next Stop: Seeking Employment



Katherine Poston- Next Stop: Microbiologist at Indiana State Department of Health, Indianapolis.

### GRANTS

**Dr. Majid Kazemian** (Co-PI) was awarded a \$2,400,000 four-year NIH, NIDDK grant for his proposal "Impact of Inflammation on Adult Prostate Stem Cells."

**Dr. Majid Kazemian** was awarded a \$381,824 grant from National Institutes of Health for his proposal "Dissecting host-pathogen interactions through the lens of genomics."

**Dr. Xing Liu** was awarded a \$1,880,740 five-year grant from the NIH/NIGMS for her proposal titled "Regulatory Mechanism of Cullin-RING Ubiquitin Ligases."

**Dr. Andy Tao** was awarded a \$1,526,896 five-year R01 grant from NIH for his proposal “Dissecting signaling pathways and seeking EV phosphoproteins as novel biomarkers for Alzheimer's Disease.”

## BIOCHEMISTRY IN THE NEWS

**Dr. Andy Tao** recently had a news article in Inside Indiana Business for his collaboration with IU Medical School on a potential Kidney Cancer test. [Click here](#) to read the article.

## GRADUATE STUDENT NEWS

In August the Department of Biochemistry welcomed 6 new students to our graduate program. To see their individual photos, and where they completed their undergraduate work, follow this link:

## RECENT PUBLICATIONS

Mani, S.K.K., B. Yan, Z. Cui, J. Sun, S. Utturkar, A. Foca, N. Fares, D. Durantal, N. Lanman, P. Merle, **M. Kazemian**, O. Andrisani. 2020. Restoration of RNA helicase DDX5 suppresses hepatitis B virus (HBV) biosynthesis and Wnt signaling in HBV-related hepatocellular carcinoma. *Theranostics*.

Park, S., B. Griesenauer, H. Jiang, D. Adom, P. Mehrpouya-Bahrami, S. Chakravorty, **M. Kazemian**, T. Imam, R. Srivastava, T. A. Hayes, J. Pardo, S. C. Janga, S. Paczesny, M.H. Kaplan, M. R. Olson. 2020 Granzyme A-producing T helper cells are critical for acute graft-versus-host disease. *JCI Insight*. E-pub.

Srivastava, M, Y. Zhang, J. Chen, D. Sirohi, A. Miller, Y. Zhang, Z. Chen, H. lu, J. Xu, R. Juhn, **W. A. Tao**. 2020. Chemical proteomics tracks virus entry and uncovers NCAM1 as Zika virus receptor. *Nature Communications*. **11**(1):3896.

Sen, A., W.C. Hsieh, C.B. Hanna, C.C. Hsu, M.K. Pearson II, **W.A. Tao**, R.C. Aguilar. 2020. The Na<sup>+</sup> pump Ena1 is a yeast epsin-specific cargo requiring its ubiquitylation and phosphorylation sites for internalization. *Journal of Cell Science*. **133** (16) jcs245415.

## 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=TFRlVmlYdkc0NjdQVmhzSUVzRHMydz09>)  
(Meeting ID: 957 792 9238 Passcode: biochem20)

September 22	Dr. Sonja Best, NIH, Virology
September 29	Dr. Chunyuan Jin, NYU Grossman School of Medicine, Environmental Medicine
October 6	TBD
October 13	Chongli Yuan, Purdue University, Dept. of Chemical Engineering
October 20	Matt Bochman, Indiana University, Dept. of Biology
October 27	Shinhan Shiu, Michigan State, Dept. of Plant Biology