

JUNE 2022

BIOCHEMISTRY NEWS



MAY GRADUATES...

The Department of Biochemistry recently said good-bye to 33 undergraduate students and four graduate students. Click the link to see our graduates and where they are heading.

[May 2022 graduates](#)

GOING THE EXTRA MILE...

Sherlene Brown was selected to give a talk and was awarded a travel award to present her work at the 2022 Bordetella Symposium in Vancouver Canada in June.

Saleem Mohd Dar presented his work “Divergent lncRNA Dnmt3bas regulates the inducible expression and alternative splicing of Dnmt3b” at the Regulatory & Non-coding RNA’s meeting in Cold spring Harbor Laboratory, New York, held May 17-21, 2022.

Natalia Dudareva gave a plenary talk titled: “Plant Perfumes: Past, Present and Future” at the “Molecular Evolution in Plants” meeting May 20th in Ann Arbor Michigan.

Natalia Dudareva was an organizer and chair for the session at World Petunia days 2022 held in Helsinki, Finland, May 31-June 3. She gave a talk titled “Benzaldehyde Biosynthesis: What’s New?”.

The **Wisecaver Lab** traveled to Grand Rapids for the Joint Aquatic Sciences meetings. Jen Wisecaver gave a talk “Hybridization, ploidy, and genome size in the toxic alga *Prymnesium parvum*” and lab members Nathan Watervoort and Olivia Riedling presented posters.

Xiaofeng Wu, Der-Shang Kao, Marco Hadisurya, Michelle Lihon, William LeFever, and Zhuojun (Lois) Luo attended the American Society for Mass Spectrometry (ASMS) Conference in Minneapolis, Minnesota (June 5th – June 9th). Marco Hadisurya completed the two-day course titled “Machine Learning for Mass Spectrometry Data Analysis.” Xiaofeng Wu presented a poster titled “One-pot analytical pipeline for fast and sensitive extracellular vesicles proteomics.” Der-Shang Kao presented a poster titled “Identification of novel kinases of Tau using fluorescence complementation mass spectrometry (FCMS).” Marco Hadisurya presented a poster

titled “A data-independent acquisition-based urinary extracellular vesicle phosphoproteomics system enables renal cell carcinoma subtype differentiation.”

UNDERGRAD NEWS...

Ashley Fow (Forney lab) also participated in SCARF (formerly known as MASI). SCARF is a summer program that is open to Purdue College of Agriculture undergraduate students and is a paid 11-week program where students experience in-depth, hands-on research, participate in a series of science communication workshops, and attend faculty seminars and industry tours.

RECENT PUBLICATIONS...

Muro-Villanueva F, H. Kim, J. Ralph, **C. Chapple**. 2022. H-lignin can be deposited independently of CINNAMYL ALCOHOL DEHYDROGENASE C and D in Arabidopsis. *Plant Physiology*. Online ahead of print.

Trujillo, J., J. Long, E. Aboelnour, **J. Ogas, J.H. Wisecaver**. 2022. CHD Chromatin Remodeling Protein Diversification Yields Novel Clades and Domains Absent in Classic Model Organisms. *Genome Biology and Evolution*. **14**(5):evac066

IMPORTANT DATES...

July 4th- Independence Day- University Holiday