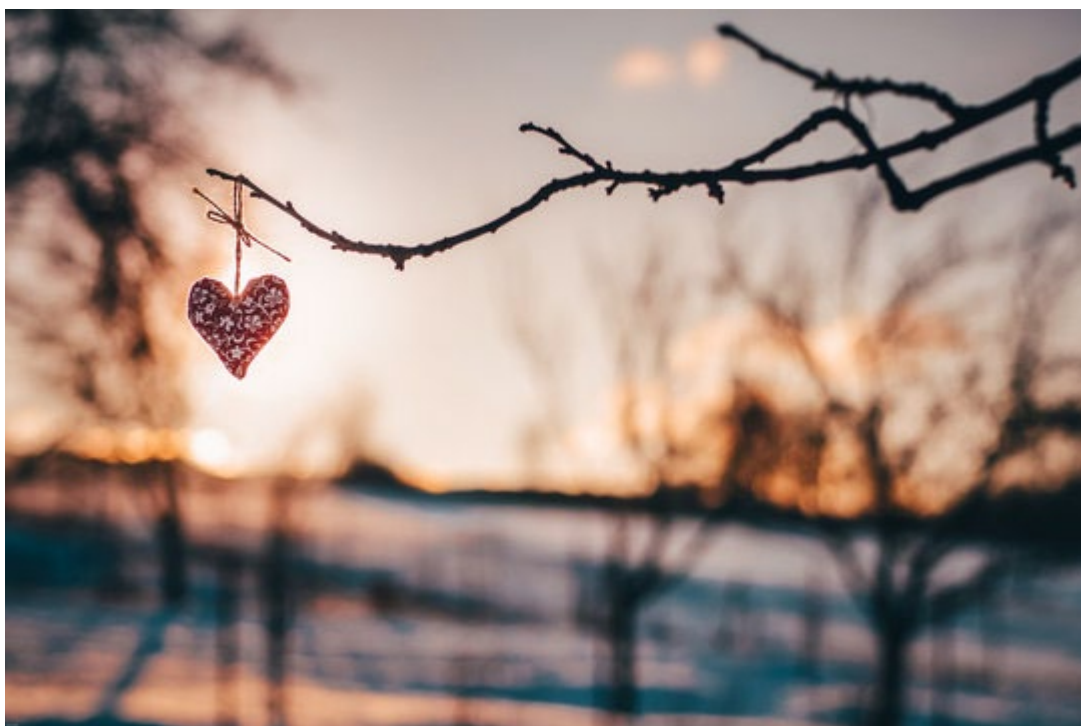


Molecular Matters

Department of Biochemistry

February 2024
Department News



CONGRATULATIONS!

Over the last few years, the Office of Agriculture Research and Graduate Education (ARGE) has honored distinguished College of Agriculture faculty for their year-over-year advancements in citations and H-factor increases associated with their cumulative publications. Three Biochemistry faculty were recognized for their increases over the past year.

Dr. Natalia Dudareva and **Dr. Jen Wisecaver** were recognized for citation increase by rank. **Dr. Majid Kazemian** was recognized for H-Index increase by rank.

COA faculty by rank with the biggest changes in citations and H-index for the last one-year period are identified below.

<https://ag.purdue.edu/department/arge/awards/citations.html>

Uttara Jayashankar, a grad student in the **Andy Mesecar** lab, is a top 10 finalist in the Graduate School's "Say it in 6" competition. Graduate students are challenged to

tell their research story with only one image, using just six words. Voting ends March 11th. Please see her photo entry below. **"We make drug discovery look easy."**



Pictured from left to right - kneeling: Uttara Jayashankar and Kratika Singhal, standing: Robin Chen, Sydney Beechboard, and Bridget Kaiser.

Please click the following link by Monday, March 11th to vote for your favorite submission: bit.ly/sayitin6voting The winning student will receive \$1000 while the second place and the people's choice winners receive \$500!

GRANTS...

Dr. Ann Kirchmaier received a \$50,000 award from the AgSEED program for her proposal titled "Fumarase Interactions & Chromosome Organization."

Dr. W. Andy Tao received a \$50,000 from the Center for Bioanalytic Metrology for his proposal titled "Accelerating amino acid analysis through microdroplet reactions."

RECENT PUBLICATIONS...

Lendy E, Kaiser B, Mesecar, A. IUSM-Purdue TREAT-AD Center Target Enablement Resource Phospholipase C gamma 2 (PLCG2) Protein Expression, Purification and Cryo-EM Sample Preparation.

<https://zenodo.org/records/8368243>

Arya C, Mesecar A IUSM-Purdue TREAT-AD Center Target Enabling Report LYN, Src family tyrosine-protein kinase: Protein Constructs, Cryo-EM, and

Biochemical Assay <https://zenodo.org/records/8370798>

Ghosh AK, Yadav M, Satyanarayana I, Ghazi S, **Lendy E**, **Jayashankar U**, **Beechboard S**, Takamatsu Y, Hattori SI, Aamano M, Higashi-Kuwata N, Mitsuya H, **Mesecar A**. Exploration of P1 and P4 modifications of nirmatrelvir: Design, synthesis, biological evaluation, and X-ray structural studies of SARS-CoV-2 Mpro inhibitors. <https://www.sciencedirect.com/science/article/pii/S0223523424000126>

IMPORTANT DATES...

Please join us for the Department of Biochemistry Seminar Series. All seminars will begin at 3:30 pm, in WSLR 116, unless otherwise noted.

MAR 12	NO SEMINAR - SPRING BREAK
MAR 19	Dr. Berkley Walker, Michigan State University, Plant Biology
MAR 26	Dr. Daniel Szymanski, Purdue University, Botany & Plant Biology
APR 2	Dr. Damian Krysan, University of Iowa, Pediatric Infectious Disease
APR 9	Dr. Valeria O'Brien, Purdue University, MCMP
APR 16	Dr. Ana Paula Alonso, University of North Texas, Biological Sciences

ATTENTION BCHM ALUMS...

We would love to hear from you! If you have any alumni news to share or had a change of address, please let us know! Updates can be sent to bchm-alumni-friends@purdue.edu.

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Our mailing address is:
175 S University St., West Lafayette, In.47907

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