

Molecular Matters

Department of Biochemistry

January 2021

Department News



CONGRATULATIONS TO...

Andy Tao, chair of the Virtual Media Outreach committee for US HUPO. The committee is planning virtual educational offerings for US HUPO members throughout the year.

DECEMBER GRADUATES

PhD Graduates



Fabiola Muro-Villanueva
Next Stop: Postdoc position in the Chapple Lab



Elia Farah
Next Stop: Seeking Employment

B.S. Graduate



Thomas Audley

Next Stop: Surface Warfare Officer, US Navy, Norfolk Virginia

GRANTS...

Humi Gowher received an additional \$50,000, 1- year extension from National Science Foundation for her grant titled “Role of divergent lncRNAs in transcriptional priming and enhancer-mediated activation of nearby genes”.

RECENT PUBLICATIONS...

Lynch, J., X. Q. Huang, **N. Dudareva**. 2021. Silent constraints: the hidden challenges faced in plant metabolic engineering. *Current Opinion in Biotechnology*. **69**:112-117.

Liao, P, S. Ray, B. Boachon, J. H. Lynch, A. Deshpande, S. McAdam, J. A. Morgan, **N. Dudareva**. 2021. Cuticle thickness affects dynamics of volatile emission from petunia flowers. *Nature Chemical Biology*. **17**(2):138-145.

Martinez-Fabregas, J., L. Wang, E. Pohler, A. Cozzani, S. Wilmes, **M. Kazemian**, S. Mitra, I. Moraga. 2020. CDK8 Fine-Tunes IL-6 Transcriptional Activities by Limiting STAT3 Resident Time at the Gene Loci. *Cell Reports*. **33**(12):108545.

Wang, L., J. Laing, B. Yan, H. Zhou, L. Ke, C. Wang, Y. Narita, Z. Zhang, M. R. Olson, B. Afzali, B. Zhao, **M. Kazemian**. Epstein-Barr Virus Episome Physically Interacts with Active Regions of the Host Genome in Lymphoblastoid Cells. *Journal of Virology*. **94**:24.

Ebina-Shibuya, R., E. E. West, R. Spolski, P. Li, J. Oh, **M. Kazemian**, D. Gromer, P. Swanson, N. Du, D. B. McGavern, W. J. Leonard. 2021. Thymic stromal lymphopoietin limits primary and recall CD8 + T-cell anti-viral responses. *eLife*. **10**:e61912.

Stunkard, L. M., B. J. Kick, **J. R. Lohman**. 2021. Structures of LnmK, a Bifunctional Acyltransferase/Decarboxylase, with Substrate Analogues Reveal the Basis for Selectivity and Stereospecificity. *Biochemistry*. Online ahead of print

Zhang, Y., P. Zhu, X. Wu, T. Yuan, Z. Su, S. Chen, Y. Zhou, **W. A. Tao**. 2021.

Microcystin-LR Induces NLRP3 Inflammasome Activation via FOXO1 Phosphorylation, Resulting in Interleukin-1 β Secretion and Pyroptosis in Hepatocytes. *Toxicological Sciences*. **179** (1): 53-69.

Zhu, Y., P. Huang, P. Guo, L. Chong, G. Yu, X. Sun, T. Hu, Y. Li, C. C. Hsu, K. Tang, Y. Zhou, C. Zhao, W. Gao, **W. A. Tao**, T. Mengiste, J.K. Zhu. CDK8 is associated with RAP2.6 and SnRK2.6 and positively modulates abscisic acid signaling and drought response in Arabidopsis. 2020. *New Phytologist*. **(5)**:1573-1590.

ALUMNI HAPPENINGS...



While the Purdue Ag Alumni Fish Fry can't be held in person, they will still be getting together! A variety of reunion groups, small business proposals will compete in the FishTank in hopes of winning a cash award, vote for slate of officers and more are planned. Visit <https://ag.purdue.edu/agalumni/annual-meeting> to learn more about the Gone Fishin' event!

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://purdue-edu.zoom.us/j/93897924772?pwd=MmJBTmxpZkIKMUwybE9USIIUVSs4UT09>)
Meeting ID: 938 9792 4772 Passcode: Biochem20

February 2 Dr. Xing Liu, Purdue University, Dept. of Biochemistry
February 9 Dr. Jana U'Ren, University of Arizona, Dept. of Biosystems Engineering
February 16 Dr. Lucia Strader, Duke University, Dept. of Biology
February 23 Dr. Judith Zaugg, Group leader at European Molecular Biology Laboratory

ATTENTION BCHM ALUMS...

We would love to hear from you! If you have had changes in your personal and/or professional life, had a change of address, etc. let us know! Please send your updates to bchm-alumni-friends@purdue.edu.

Zaugg, Group leader at European Molecular Biology Laboratory