



Please send submissions to Steve Lundback, lundback@msu.edu, 212 Biochemistry (Mailbox on 2nd Floor)

Seminar Calendar

MONDAY, SEPTEMBER 2

Labor Day, University closed

TUESDAY, SEPTEMBER 3

[MMG Seminar](#)

Dan Wall, University of Wyoming

"*Visualization of self-recognition and social consequences in Myxococcus xanthus*"

4:10 PM, Room 1415 BPS

[The Exchange](#)

Volunteer opportunities through BMB

8:00 AM, Room 208 Biochemistry

THURSDAY, SEPTEMBER 5

[BMB Colloquium](#)

No Seminar

FRIDAY, SEPTEMBER 6

[Science at the Edge](#)

Joshua Welch, University of Michigan

"*Quantitative definition of cell identity through single-cell data integration*"

11:30 AM, Room 1400 BPS

[PRL Special Seminar](#)

Kazuo Kanehara, Institute of Plant and Microbial Biology, Taiwan

"*Unfolded protein response in higher plants*"

11:00 AM, Room 168 PLB

Announcements

[Save the Date: Thermo Metabolomics Seminar Series](#)

"*Harness the Power of Metabolomics*"

Tuesday, September 10

Room 208 Biochemistry (8:30 am-3:30 pm).

Register at thermofisher.com/americasevents

[Molecular Biophysics Symposium in Honor of the Grand Opening of the MSU Cryo-EM Core Facility](#)

Friday October 4th and Saturday October 5th, 2019.

To inaugurate the new Cryo-EM facility at Michigan State, we are hosting a symposium to highlight cutting edge research in molecular biophysics. We will feature invited talks, student posters and a tour of the new cryo-EM facility. Registration is free but required.

Noteworthy News



Congratulations to Amy Ralston for being awarded the Society for Developmental Biology (SDB) [John Doctor Education Prize](#)! This award is given for the best education video on developmental biology topics. [Amy's video](#), "*Developmental Origami: An active learning exercise to explore the developmental origins of the body axes*", takes a creative approach to exploring the establishment of body axes during embryogenesis. The prize was named in the memory of SDB member John Doctor, who passed away in 2005.

SPARTANS WILL.

[GNPS Metabolomics Workshop, MSU](#)

Dr. Robert Quinn (BMB) will be hosting a metabolomics workshop this September 11th. This workshop is designed to teach analysis of mass spectrometry data (with a focus on untargeted metabolomics) with new bioinformatic tools that can translate this highly technical data into biologically relevant information. GNPS is a new database and data analysis server for tandem (MS/MS) mass spec data analysis. With GNPS you can visualize your metabolomics data in novel ways that enable identification of known compounds, determining the structure of unknowns, and with statistical tools that are designed to identify biological patterns in the overall data. Contact Rob Quinn by August 30th if you are interested in attending. The location will be determined by the number of respondents.

[Football Season Tickets for Grad Students](#)

Reserved seats in Lower Bowl, sections 9 & 10, \$233

[Postdoctoral Position on Plant Metabolism, University of Wisconsin-Madison](#)

The Maeda Laboratory is seeking an independent and self-driven postdoctoral researcher, who can lead a new Department of Energy (DOE)-funded project to construct nitrogen metabolic flux maps of Arabidopsis and sorghum. The position is initially for three years with possibility to continue for additional years.

[Assistant Professor, University of Washington in St. Louis](#)

The Biology Department at Washington University is conducting a search to fill an open rank tenure track faculty position in Molecular, Cellular, & Developmental Biology at the Assistant Professor level. We are particularly interested in candidates who employ innovative approaches to conduct research in biochemical systems, plant science, developmental controls, and/or genome biology, but all exceptionally qualified individuals are invited to apply. Applications will be accepted immediately and application review will begin October 15, 2019.

Recent Publications

For most publications from BMB labs during the past few years, see [Recent Publications](#) on the BMB website.

Roushangar R, Mias GI. "Multi-study reanalysis of 2,213 acute myeloid leukemia patients reveals age- and sex-dependent gene expression signatures." *Sci Rep.* (2019) Aug 27;9(1):12413. doi: [10.1038/s41598-019-48872-0](https://doi.org/10.1038/s41598-019-48872-0)

John CW, Swain GM, Hausinger RP, Proshlyakov DA. "Strongly Coupled Redox-Linked Conformational Switching at the Active Site of the Non-Heme Iron-Dependent Dioxygenase, TauD." *J Phys Chem B.* (2019) Aug 21. doi: [10.1021/acs.jpcc.9b05866](https://doi.org/10.1021/acs.jpcc.9b05866)

Kopriva S, Malagoli M, Takahashi H. "Sulfur nutrition: impacts on plant development, metabolism, and stress responses." *J Exp Bot.* (2019) Aug 19;70(16):4069-4073. doi: [10.1093/jxb/erz319](https://doi.org/10.1093/jxb/erz319)

Sripathi KN, Moscarella RA, Yoho R, You HS, Urban-Lurain M, Merrill J, Haudek K. "Mixed Student Ideas about Mechanisms of Human Weight Loss." *CBE Life Sci Educ.* (2019) Aug 16. 18(3):ar37. doi: [10.1187/cbe.18-11-0227](https://doi.org/10.1187/cbe.18-11-0227)