



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

Seminar Calendar

MONDAY, OCTOBER 21

[MPS Seminar](#)

Keith Slotkin, Donald Danforth Plant Science Center

"Plant cell mechanisms to identify, target and repress genome parasites"

4:10 PM, Room 1200 MPS

TUESDAY, OCTOBER 22

[The Exchange](#)

Journal Club – Sarah Hainer, U Pittsburgh

8:00 AM, Room 208 Biochemistry

[MMG Seminar](#)

Cassandra Quave, Emory University

"Exploring Nature's Chemistry: Ethnobotany and antimicrobial drug discovery"

4:10 PM, Room 1415 BPS

WEDNESDAY, OCTOBER 23

[\(3M\) Interest Group](#)

Shao Thing Teoh, Lunt Lab

"Investigating nucleotide sugar metabolism in metastatic breast cancer"

4:00 PM, Room 1425 BPS

THURSDAY, OCTOBER 24

[BMB Colloquium](#)

Sarah Hainer, Pittsburgh

"Profiling of pluripotency factors in single cells and early embryos"

11:00 AM, Room 101 Biochemistry

[EEBB Seminar](#)

Katherine Nash Suding, University of Colorado - Boulder

DISTINGUISHED EEBB SPEAKER

"The importance of niche dynamics in restoration and conservation"

3:30 PM, 1420 BPS

[Physiology Seminar](#)

Brian Glancy, National Institutes of Health

"Sustaining Power: Development and Regulation of the Muscle Mitochondrial Reticulum"

4:00 PM, Room 1425 BPS

FRIDAY, OCTOBER 25

[Science at the Edge](#)

Tony Szedlak, Auto-Owners Insurance

"Innovation in Industry: Machine Learning and Data Analytics at Auto-Owners Insurance"

11:30 AM, Room 1400 BPS

Announcements

[Assistant Professor, Cellular, Molecular, or Developmental Biology, ECU](#)

The Department of Biology at East Carolina University seeks to fill a tenure-track faculty position (9-month appointment) at the Assistant Professor level with expertise in Cellular, Molecular, or Developmental Biology to begin August 16, 2020. The successful candidate will be expected to establish a vigorous, externally funded research program that actively engages undergraduate and graduate students. . Review of applications begins on November 18, 2019.

[Assistant/Associate Professor of Biochemistry, University of Kansas](#)

The Department of Molecular Biosciences at the University of Kansas invites applications for a faculty position as a tenure-track assistant professor or associate professor using biochemical or chemical biology approaches to investigate the molecular mechanisms of cancer. Review of applications will begin on November 1, 2019.

[Assistant/Associate Professor of Biochemistry, Case Western Reserve University](#)

Case Western Reserve University, Department of Biochemistry is seeking a highly qualified candidate to fill a full-time faculty position at a rank commensurate with experience and expertise. This is a non-tenure-track position, and the majority of time will be spent on teaching duties to support the education mission of the Department. Review of applications will begin on November 1, 2019.

[Assistant/Associate Professor of BioSynthetic Organic Chemistry, University of North Texas](#)

The Department of Chemistry at the University of North Texas (UNT), Denton, TX, invites applications from outstanding scientists for a tenure-track position in organic chemistry with membership in the BioDiscovery Institute (BDI). An appointment at the Assistant Professor level is expected; however, candidates at higher ranks may also be considered. We are seeking an individual working in the general area of synthetic chemistry of biologically relevant organic compounds. Screening of applications will begin on November 1st, 2019.

[Chair for the Department of Chemistry and Biochemistry University of Texas at El Paso](#)

The University of Texas at El Paso (UTEP) is seeking an innovative leader to serve as Chair of the Department of Chemistry and Biochemistry. Research activities in the Department encompass all major areas of chemistry and biochemistry, and faculty receive extramural funding from federal and state programs, private foundations and industry. The successful candidate is expected to be an active leader and researcher with a strong vision for developing and strengthening educational and research initiatives. Review of applications will begin October 21, 2019, and will continue until the position is filled.

Recent Publications

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

Madsen CS, TerAvest MA. "NADH dehydrogenases Nuo and Nqr1 contribute to extracellular electron transfer by *Shewanella oneidensis* MR-1 in bioelectrochemical systems." *Sci Rep.* (2019) Oct 18;9(1):14959. doi: [10.1038/s41598-019-51452-x](https://doi.org/10.1038/s41598-019-51452-x)

Sharkey TD. "Is triose phosphate utilization important for understanding photosynthesis?" *J Exp Bot.* (2019) Oct 17;. doi: [10.1093/jxb/erz393](https://doi.org/10.1093/jxb/erz393)

McClain AM, Sharkey TD. "Building a better equation for electron transport estimated from chlorophyll fluorescence: Accounting for non-photosynthetic light absorption." *New Phytol.* (2019) Oct 12;. doi: [10.1111/nph.16255](https://doi.org/10.1111/nph.16255)

Collins FL, Rios-Arce ND, Schepper JD, Jones AD, Schaefer L, Britton RA, McCabe LR, Parameswaran N. "Beneficial effects of *Lactobacillus reuteri* 6475 on bone density in male mice is dependent on lymphocytes." *Sci Rep.* (2019) Oct 11;9(1):14708. doi: [10.1038/s41598-019-51293-8](https://doi.org/10.1038/s41598-019-51293-8)

Kirst H, Kerfeld CA. "Bacterial microcompartments: catalysis-enhancing metabolic modules for next generation metabolic and biomedical engineering." *BMC Biol.* (2019) Oct 10;17(1):79. doi: [10.1186/s12915-019-0691-z](https://doi.org/10.1186/s12915-019-0691-z)

Asirvatham-Jeyaraj N, Jones AD, Burnett R, Fink GD. "Brain Prostaglandin D2 Increases Neurogenic Pressor Activity and Mean Arterial Pressure in Angiotensin II-Salt Hypertensive Rats." *Hypertension.* (2019) Oct 7;HYPERTENSIONAHA11913175. doi: [10.1161/HYPERTENSIONAHA.119.13175](https://doi.org/10.1161/HYPERTENSIONAHA.119.13175)

Gooding S, Olechnowicz SWZ, Morris EV, Armitage AE, Arezes J, Frost J, Repapi E, Edwards JR, Ashley N, Waugh C, Gray N, Martinez-Hackert E, Lim PJ, Pasricha SR, Knowles H, Mead AJ, Ramasamy K, Drakesmith H, Edwards CM. "Transcriptomic profiling of the myeloma bone-lining niche reveals BMP signalling inhibition to improve bone disease." *Nat Commun.* (2019) Oct 4;10(1):4533. doi: [10.1038/s41467-019-12296-1](https://doi.org/10.1038/s41467-019-12296-1)

Baek S, Liu C, Gou K, Kim J, Gharahi H, Chan C. "Utilization of the Theory of Small on Large Deformation for Studying Mechanosensitive Cellular Behaviors." *J Elast.* (2019) Aug;136(2):137-157.