



DEPARTMENT OF
**Biochemistry &
Molecular Biology**

Please send submissions to Jeff Mason, masonje6@msu.edu

Seminar Calendar

TUESDAY, AUGUST 25

U. Michigan Chemistry-Biology Interface training program

This virtual symposium (with poster sessions) will highlight innovative research at the interface of chemistry and biology and is open to Michigan State University faculty and students.

The deadline to - register is Aug 23 / submit an abstract is Aug 17.

[To register](#)

Announcements

FYI- Window cleaning for the Biochemistry building is scheduled for Monday, August 24. The loading dock area may be closed for a short period of time while they work on the south side of the building but this should not affect anyone in the building.

The link below provides information for MSU employees who may need or request special accommodations regarding returning to work.

[Click here](#)

The link below is an article in Nature and provides interesting commentary on racism in academia.

[Click here](#)

Joint Chemistry and BMB student Graciellou Klinger will be presenting her Doctoral Dissertation Defense titled "Biomimetic lignin depolymerization using small molecule thiols: mimicking the beta-aryl ether cleavage pathway" " on Monday, August 10 at 11:00 a.m. Email Graci for the Zoom link.

Food & drink are now allowed in the Biochemistry Building, following the protocols outlined in the "Policies and Procedures for MSU Biochemistry Building" download below and on the BMB webpage. Laboratories can accommodate a safe eating space in each lab as long as it is an enclosed space (e.g., office) and it is used by one person at a time with the door closed. Each laboratory can install a mechanism to make this happen under the guidelines of each lab (including sanitation). In the event that the lab cannot accommodate the needs of one or more members, BCH is making three rooms available for this: BCH208, BCH302A and BCH 402A. Each room allows only one person at a time, and a sign-up sheet can be accessed in the document below and is provided online.

[Download document](#)

MSU WorkLife Office is gathering feedback about the concerns of the MSU employee community as they consider returning to campus. You can complete the survey whether or not you are currently working from home. The survey ends August 9th.

[Click here](#)

Noteworthy News



Heedeok Hong was invited to the Board of Reviewing Editors in the journal, eLife. eLife works to improve research communication through open science and open technology innovation and is funded by HHMI, Max Planck Society, and Wellcome Trust.

SPARTANS WILL.

Open Positions:

Graduate students are encouraged to apply for the Lawrence Livermore National Laboratory's (LLNL) Fellowship. The fellowship was established to provide extraordinary postdocs an opportunity to pursue independent, ground-breaking research in a National Lab setting. Areas of research include biology, chemistry, applied mathematics, computer and environmental science, and engineering, among others.

[For more information](#)

Washington University School of Medicine is seeking a postdoc in germ cell chromatin organization and fertility in flies, fish and mice to join the McNeill laboratory in St. Louis. The laboratory uses both flies and mice as model systems to investigate organ development, regeneration and the coordination of growth and patterning in development. Experience in genetics, imaging, development or chromatin analysis a plus.

[For more information](#)

Recent Publications

Hamberger B, Yuen MM, Buschiazzo E, Cullis C, Yuen A, Ritland C, Bohlmann J, Hamberger B. "An Intact, But Dormant LTR Retrotransposon Defines a Moderately Sized Family in White Spruce (*Picea glauca*)."
The Spruce Genome. Pages 51-63. August 2020.

Cang Z, Munch E, Wei GW. "Evolutionary homology on coupled dynamical systems with applications to protein flexibility analysis."
J Appl. and Comput. Topology. Volume 4. August 2020.

Hoogstraten CG, Terrazas M, Aviñó A, White NA, Sumita M. "Dynamics-Function Analysis in Catalytic RNA Using NMR Spin Relaxation and Conformationally Restricted Nucleotides."
Methods Mol Biol. Pages 183-202. July 2020.

Kariagina A, Lunt SY, McCormick J. "Genomic and metabolomic analysis of step-wise malignant transformation in human skin fibroblasts."
Carcinogenesis. Volume 41. July 2020.

"Metabolomic profiling of mouse mammary tumor-derived cell lines reveals targeted therapy options for cancer subtypes."
Ogrodzinski MP, Teoh ST, Lunt SY. *Cellular Oncology*. July 2020. Online ahead of print.

Hoffmann-Benning S. "Beyond Membranes: The Evolution of Plant Lipid Signaling."
Molecular Plant. Volume 13. July 2020.

Xu G, Takahashi H. "Improving nitrogen use efficiency: from cells to plant systems."
J Exp Bot. Volume 71. July 2020.

Lay-Pruitt KS, Takahashi H. "Integrating N signals and root growth: the role of nitrate transceptor NRT1.1 in auxin-mediated lateral root development."
J Exp Bot. Volume 71. July 2020.

Liu Y, Jia Z, Li X, Wang Z, Chen F, Mi G, Forde B, Takahashi H, Yuan L. "Involvement of a truncated MADS-box transcription factor ZmTMM1 in root nitrate foraging."
J Exp Bot. Volume 71. July 2020.