



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

Seminar Calendar

MONDAY, DECEMBER 3

[Molecular Plant Science Seminar](#)

Hui-Ling (Sunny) Liao, University of Florida

"Functional diversity of forest microbiomes and their consequences"

4:00 PM, Room 1200 MPS

TUESDAY, DECEMBER 4

[The Exchange](#)

Responsible Conduct of Research – joint with MMG

8:00 AM, Room 208

[MMG Seminar](#)

Craig Roy, Yale

"Modulation of host cell functions by the Dot/Icm Type IV secretion system"

4:10 PM, Room 1415 BPS

Dissertation Defense Seminar

Qiang Guo, Howe Lab

"The role of JAZ proteins in the regulation of plant growth-defense tradeoffs"

9:30 AM, Room 168, Plant Biology

WEDNESDAY, DECEMBER 5

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

No Seminar

4:00 PM, Room 1455-A BPS (iCER)

THURSDAY, DECEMBER 6

[BMB Colloquium](#)

Rachelle Gaudet, Harvard

"Membranes, transporters, channels"

11:00 AM, Room 101 Biochemistry

[EEBB](#)

Leslie Ries, Georgetown University

"Predicting responses of the monarch butterfly to a changing environment"

3:30 PM, Room 1420 BPS

FRIDAY, DECEMBER 7

[SATE Seminar](#)

Michael Boehnke, University of Michigan

"Identifying Genes for Type 2 Diabetes and Related Traits"

11:30 AM, Room 1400 BPS

Noteworthy News



MSU's 2018 iGEM has won a Bronze Medal from the International Genetically Engineered Machines (iGEM) global competition. iGEM brings together students from around the world to design synthetic biology solutions for some of humanity's toughest problems. The teams also contribute to the synthetic biology community by adding new parts to the growing 'Registry of Standard Biological Parts,' a physical and digital library of DNA sequences with well characterized functions. The MSU iGEM team was made up of eight undergrads, a grad student, a post-doc, and four faculty. This year's professor mentors were Bjoern Hamberger, Danny Ducat, Tim Whitehead, Michaela TerAvest, and Greg Bonito. *Read more [here](#).*

SPARTANS WILL.

Announcements

[Max T. Rogers Distinguished Lectureship](#)

Adriann Bax will be giving two lectures on December 3 & 4: "*Studies of Protein Folding, Misfolding, and Unfolding by Rapid Pressure Jump NMR*", and "*NMR Suggests a Model for gp41-mediated HIV-1 Entry into the Host Cell*"

[Annual Series of "Thriving at Michigan State University" Workshops](#)

This year, the Academic Advancement Network in collaboration with Academic Human Resources will host their annual series of "Thriving at Michigan State University" workshops to provide faculty and academic specialists with important information and strategies on how to be successful in their careers at our institution. Content will be tailored for each appointment type's specific needs. Workshops will be held in January and February of 2019.

[BMB960 Sec 002: Chromatin Dynamics and Gene Expression in Development](#)

This course will examine modern literature, focusing on a wide variety of systems and approaches to look at the integration of chromatin dynamics and gene expression in development and disease.

[CMSE 801, Introduction to Computational Modeling](#)

We will explore the tools required to design, build and utilize computational models that are applied to many problems from a wide range of scientific disciplines. The main goal is to learn the skills necessary to apply computational techniques to a dataset of interest. Creating models to describe and understand systems (in the physical, life, or social sciences, or in engineering) is the driving principle of this course.

[Tenure-Track Biology Positions at Ball State University](#)

The Department of Biology at Ball State University is inviting applications for two tenure-track faculty positions in (1) Cell/Molecular Biology and (2) Genetics. The successful candidates will (1) teach courses at both graduate and undergraduate levels and maintain a research program that involves undergraduate and master's students and complements existing department research programs.

[Postdoctoral Researcher/PhD Student, Ludwig-Maximilian University](#)

The laboratory of Dr. Michaela Smolle is looking for a postdoctoral researcher and PhD student to study how remodelling enzymes influence chromatin dynamics and gene expression.

[Assistant Professor in Systems Biology, Iowa State University](#)

The Department of Genetics, Development and Cell Biology (GDCB) at Iowa State University (ISU) invites applications for a tenure-track assistant professor position in Systems Biology. Responsibilities include building a nationally recognized research program that competes successfully for extramural funding, advancing the discipline through high quality publications, mentoring students, and effective teaching of undergraduate and graduate courses. Submit application by December 7, 2018.

[Assistant Professor, Metabolism, Oklahoma State University](#)

The Department of Biochemistry and Molecular Biology at Oklahoma State University is seeking applicants for a 9-month, full-time, tenure-track position (80% research and 20% teaching) in the area of Metabolism.

Recent Publications

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

Banerjee A, Arnesen JA, Moser D, Motsa BB, Johnson SR, Hamberger B. “Engineering modular diterpene biosynthetic pathways in *Physcomitrella patens*.” *Planta*. (2018) Nov 23. doi: [10.1007/s00425-018-3053-0](https://doi.org/10.1007/s00425-018-3053-0)

Kamba PF, Dickson DA, White NA, Ekstrom JL, Koslowsky DJ, Hoogstraten CG. “The 27 kDa *Trypanosoma brucei* Pentatricopeptide Repeat Protein is a G-tract Specific RNA Binding Protein.” *Sci Rep*. (2018) Nov 19;8(1):16989. doi: [10.1038/s41598-018-34377-9](https://doi.org/10.1038/s41598-018-34377-9)

Chacón KN, Perkins J, Mathe Z, Alwan K, Ho EN, Ucisik MN, Merz KM, Blackburn NJ. “Trapping intermediates in metal transfer reactions of the CusCBAF export pump of *Escherichia coli*.” *Commun Biol*. (2018) Nov 14;1:192. doi: [10.1038/s42003-018-0181-9](https://doi.org/10.1038/s42003-018-0181-9)