



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

Seminar Calendar

MONDAY, NOVEMBER 26

[Molecular Plant Science Seminar](#)

Carsten Külheim, Michigan Technological University
"Genes to Ecosystems: The Problem of Complex Traits"
4:00 PM, Room 1200 MPS

TUESDAY, NOVEMBER 27

[The Exchange](#)

John Burczak – Preparing for your next career move
8:00 AM, Room 208

[MMG Seminar](#)

Frank Dazzo, Michigan State University
"50+ Years of Microbiology, Beneficial Rhizobium-Plant Interactions, and Development of CMEIAS Bioimage Informatics Software"
4:10 PM, Room 1415 BPS

WEDNESDAY, NOVEMBER 28

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

Daniel Parrell, Kroos Lab
"ATPs role in Regulated Intramembrance Proteolysis of Pro- σ K by SpoIVFB during Bacillus subtilis sporulation"
4:00 PM, Room 1455-A BPS (iCER)

THURSDAY, NOVEMBER 29

[BMB Colloquium](#)

Greg Voth, University of Chicago
"Overcoming the Multiscale Challenge for Biomolecular Systems"
11:00 AM, Room 101 Biochemistry

[EEBB](#)

Charles Derby, Georgia State University
"Escape by inking: Marine mollusks avoid predators with diverse chemicals and mechanisms"
3:30 PM, Room 1420 BPS

FRIDAY, NOVEMBER 30

[SATE Seminar](#)

Anne Robertson, University of Pittsburgh
"Translating the Success of Tissue Engineered Blood Vessels for Young to Old Animals"
11:30 AM, Room 1400 BPS

Noteworthy News

BMB undergraduate awardees have been announced. Congratulations to all!

Pamela J Fraker Award: Sarah Ax and Onyebuchi Amanze

Dr. James K. Billman, Jr., Undergraduate Research Award: Jaideep Prasad

Professor Richard L. Anderson Endowed Undergraduate Research Prize: Hailee Perret

BMB Outstanding Undergraduate Student Award: Raghav Jain and Stephanie Brocke

BMB Undergraduate Research Fellowship: Expery Omollow and Patrick Pawlaczyk

SPARTANS WILL.

Announcements

[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.

[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.

[Post-Doctoral Research Panel](#)

The Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) invites post-docs to discuss their experiences after graduation at a meeting on Monday, November 26, from 5:30 - 6:30 PM at room 110, Chittenden Hall.

[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.

[Faculty Positions in the Department of Plant and Microbial Biology, UC Berkeley](#)

The Department of Plant and Microbial Biology at the University of California, Berkeley, is searching for promising candidates for two positions - one in the area of plant biology, the other in the area of fungal biology. The plant biology search (deadline: November 26, 2018) is open rank, and the fungal biology search (deadline: December 4, 2018) is at the assistant or associate level.

[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.

[Assistant Professor Positions in Biology, Slippery Rock University](#)

Three tenure track assistant professor positions in Biology are open at Slippery Rock University. Areas of research interest include genetics, plant biology and zoology.

Recent Publications

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

Gaffney KA, Hong H. “The rhomboid protease GlpG has weak interaction energies in its active site hydrogen bond network.” *J Gen Physiol*. (2018) Nov 12;. doi: [10.1085/jgp.201812047](https://doi.org/10.1085/jgp.201812047)

Aykul S, Martinez-Hackert E. “High-Throughput, Biosensor-Based Approach to Examine Bone Morphogenetic Protein (BMP)-Receptor Interactions.” *Methods Mol Biol*. (2019) Nov 10;1891:37-49. doi: [10.1007/978-1-4939-8904-1_5](https://doi.org/10.1007/978-1-4939-8904-1_5)

Yu L, He J, Wang L, Yi H. “Inflammatory profiles revealed the dysregulation of cytokines in adult patients of HFMD.” *Int J Infect Dis*. (2018) Nov 10;. doi: [10.1016/j.ijid.2018.11.001](https://doi.org/10.1016/j.ijid.2018.11.001)

Sommer M, Sutter M, Gupta S, Kirst H, Turmo A, Lechno-Yossef S, Burton RL, Saechao C, Sloan NB, Cheng X, Chan LG, Petzold CJ, Fuentes-Cabrera M, Ralston CY, Kerfeld CA. “Heterohexamers Formed by CcmK3 and CcmK4 Increase the Complexity of Beta Carboxysome Shells.” *Plant Physiol*. (2018) Nov 2;. doi: [10.1104/pp.18.01190](https://doi.org/10.1104/pp.18.01190)

Zhao R, Cang Z, Tong Y, Wei GW. “Protein pocket detection via convex hull surface evolution and associated Reeb graph.” *Bioinformatics*. (2018) Sep 1;34(17):i830-i837. doi: [10.1093/bioinformatics/bty598](https://doi.org/10.1093/bioinformatics/bty598)