



DEPARTMENT OF  
**Biochemistry &  
Molecular Biology**

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**NOVEMBER 20 – 22**

COLLEGE OF NATURAL SCIENCE | [BMB.MSU.EDU](http://BMB.MSU.EDU)

Please send submissions to Steve Lundback, [lundback@msu.edu](mailto:lundback@msu.edu), 212 Biochemistry (Mailbox on 2<sup>nd</sup> Floor)

## Seminar Calendar

### MONDAY, NOVEMBER 20

#### PRL Seminar

Jocelyn Rose, Cornell University

*"Cell Cuticle and Cell Wall Architecture and Function, especially in Fruit Development"*

4:10 PM, Room 1200 MPS

### TUESDAY, NOVEMBER 21

#### MMG Seminar

No Seminar

11:00 AM, Room 1425 BPS

### WEDNESDAY, NOVEMBER 22

#### 3M Seminar

No Seminar

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

#### Pharm Tox Seminar

No Seminar

12:00 PM, B448 Life Science Building

### NOVEMBER 23 - 24

University closed for Thanksgiving holiday

## Noteworthy News



Sophia Lunt was awarded an Agilent Applications and Core Technology University Research grant. It will provide \$91,080 to develop tools for quantitative flux analysis using kinetic flux profiling applied to metabolic rewiring in cancer metastases. [Agilent University Research](#).

**SPARTANS WILL.**

## Announcements

### Opportunities and Events for Graduate Students and Postdocs

Checkout the Grad/Postdoc News page on the BMB website for the latest events and opportunities.

### Writing Winning Grant Proposals

This full-day seminar is designed for **faculty members, graduate students, and administrative staff** who want tips and strategies for presenting their research case to reviewers. Deadline to register is December 1.

### gradSERU Survey

PhD students: With an investment of 30 minutes of your time, you will have the opportunity to help shape graduate education at MSU. Please take the gradSERU survey!

### Molecular Plant Sciences PhD Program at MSU

The Molecular Plant Sciences dual major graduate program brings together into one coherent program the breadth and depth of MSU faculty who apply molecular, biochemical, genomic, and computational approaches to the study of photosynthetic organisms. The inaugural semester is fall 2018.

## **[The Theodore Roosevelt Conservation and Environmental Leadership Graduate Fellowship](#)**

The purpose of this award is to provide an opportunity for graduate or professional students to achieve a level of professional and personal growth that will prepare them for leadership roles in natural resource and conservation-based organizations and agencies. Submit materials by Friday, December 15, 2017.

## **Job Postings**

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See the BMB website for a full listing of [employment opportunities](#).

### **[Two Faculty Positions in Cryo-Electron Microscopy, Michigan State University](#)**

The Department of Biochemistry and Molecular Biology at Michigan State University seeks outstanding applicants for two tenure-track positions at the Assistant/Associate level with expertise in cryo-electron microscopy (Cryo-EM) and the ability to develop a vigorous, externally funded research program that will complement existing strengths in the areas of structural, membrane protein, computational, microbial, and plant biochemistry.

### **[Faculty Position in Biological Mass Spectrometry at Michigan State University](#)**

Michigan State University invites application for an academic year tenure stream faculty position, targeting the Assistant Professor level, in the Department of Biochemistry and Molecular Biology for individuals who use mass spectrometry to investigate important biological questions at the molecular level. Review of applications will begin November 1 and continue until suitable candidates are identified.

### **[Faculty Position in the Plant Resilience Institute at Michigan State University](#)**

The Department of Biochemistry and Molecular Biology invites applications for a position at the Assistant or Associate Professor level from individuals addressing fundamental aspects of plant response and adaptation to global environmental change. Applications should be submitted by November 15, 2017.

### **[Multiple Faculty Positions Available at the University of South Florida](#)**

The Department of Cell Biology, Microbiology, and Molecular Biology is seeking applications for multiple tenure-track/tenure-eligible faculty positions at any rank within the three major areas of research strength for the department: bacterial pathogenesis, genome integrity & mechanisms of aging, and structural & computational biology. The review of applications will begin on December 1st, and will continue until the positions are filled.

### **[Assistant/Associate Professor of Plant-Microbe Biology, Cornell University](#)**

The School of Integrative Plant Science at Cornell University invites applications for a tenure track position at the Assistant or Associate Professor level in Plant-Microbe Biology. Initial screening of applications will begin on January 5, 2018 and continue until the position is filled.

### **[Assistant Professor Position in Plant Biochemistry, UC Davis](#)**

The Department of Plant Biology, College of Biological Sciences, at the University of California, Davis, invites applications for a tenure-track Assistant Professor position in the field of Plant Biochemistry. Applications should be received no later than December 1, 2017.

### **[Postdoctoral Research Positions in the Barondeau Lab at Texas A&M](#)**

Postdoctoral and PhD positions in the Barondeau lab at Texas A&M University are available for individuals with a strong interest in biophysical and/or bioinorganic chemistry (Fe-S assembly complex/pathways). Initial deadline is December 1st, 2017.

## Recent Publications

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

Xu H, Moghe GD, Wiegert-Rininger K, Schillmiller AL, Barry CS, Last RL, Pichersky E. "Identification of dehydrogenases involved in the biosynthesis of the monoterpene moiety of pyrethrin." *Plant Physiol.* (2017) Nov 9;. doi: [10.1104/pp.17.01330](https://doi.org/10.1104/pp.17.01330)

Heo L, Feig M. "PREFMD: a web server for protein structure refinement via molecular dynamics simulations." *Bioinformatics.* (2017) Nov 8;. doi: [10.1093/bioinformatics/btx726](https://doi.org/10.1093/bioinformatics/btx726)