



## Seminar Calendar

### MONDAY, NOVEMBER 2

#### [Microbiology & Molecular Genetics Work in Progress Seminars](#)

Hinako Terauchi (Mansfield lab) “Gut Microbiome Metabolite Production in a Mouse Model of Asthma”

Ted Van Alst (DiRita lab) “Aerobic metabolism in *V. cholerae* is required for population expansion during infection”

Noon

[Zoom link](#). Email Rob ([abramov5@msu.edu](mailto:abramov5@msu.edu)) for the password

#### [Molecular Plant Science Seminars](#)

Roger Innes, Indiana University

“Using decoy engineering to confer novel disease resistance traits in crops”

4:00

[Zoom link](#) (Passcode: 941910)

### TUESDAY, NOVEMBER 3

The Exchange – (Science discussion for BMB graduate students)  
“Journal Club on Jennifer Wisecaver (Purdue)”

8:00 AM

Email David ([arnosti@msu.edu](mailto:arnosti@msu.edu)) for the Zoom link and password

### WEDNESDAY, NOVEMBER 4

Metabolism, Membranes, and Metalloenzymology Interest Group

Maria Santos (Ducat lab)

“Testing the capacity of heterologous metabolic sinks to replace photoprotective mechanisms in cyanobacteria”

4:00 PM Email Teri ([comepaut@msu.edu](mailto:comepaut@msu.edu)) for the Zoom link

### THURSDAY, NOVEMBER 5

#### [BMB Seminar Series](#)

Jennifer Wisecaver, Purdue

“Genomic Basis of Evolutionary Innovation”

1:00 PM \*Please note the time change for this week’s seminar

Email Ashley ([clarkas@msu.edu](mailto:clarkas@msu.edu)) for the Zoom link

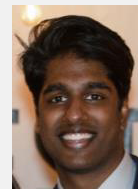
### FRIDAY, NOVEMBER 6

#### [Plant Biology Seminar Series](#)

Lars Brudvig, MSU – Promotion Seminar

3:30 PM Email Chasidy ([perezch2@msu.edu](mailto:perezch2@msu.edu)) for the Zoom link

## Noteworthy News



Please join me in congratulating Neeraj Padmanabhan, who was recently accepted into MSU’s Doctor of Osteopathic Medicine (DO) program. Neeraj is studying neuroscience in Lyman Briggs. He has been in the department of BMB for 2 years working on molecular modeling in the Cryo-EM facility under the mentorship of Kristin Parent.

Neeraj grew up in Okemos and is the son of one of the nicest people in our department, Pappan Padmanabhan. Neeraj has two older brothers, one of which just graduated from MSU’s DO program.

“It is a huge honor to have the opportunity to study medicine here,” said Neeraj. “The people that I have met in the Biochemistry department have helped me tremendously, and I am looking forward to pursuing my goal of becoming a physician.”

**SPARTANS WILL.**

## Announcements

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There is a lot of important information in President Stanley's [letter](#) regarding plans for spring 2021 semester.

Graduate School Write Ins - Friday, November 6 from 9:00am to 12:00pm – are hosted and facilitated to provide writers with an opportunity to write in a shared writing space where other writers are present, and a writing center consultant/staff member is present to provide consultations for writers who would like to have a consultation appointment during the session. [Register here](#).

Check out this [article](#) in *PLOS Computational Biology*. Although it is focused on the disproportionate impact of the pandemic on female PIs, it contains some important points that can be useful to everyone dealing with the struggle of balancing work-life demands during the pandemic.

"What you Need to Know to Start and Complete an Effective NIH K99/R00 Application." November 11th - 1pm ET. NIH K99/R00 offers postdocs an opportunity for support as they complete their mentored research and training, and transition to independence in a tenure-track faculty position. [Register here](#).

Peter Lundquist is hiring a talented post-doc to lead a multi-year study of biochemical and physiological adaptations of maize. This project desires to understand how application of managed variables impact maize physiology to promote stress tolerance and to identify opportunities to improve applications for better growth under environmental challenges. The incumbent will be responsible for analyses of prenyl-lipids and phenolic compounds, performing RNA-seq experiments, collecting photosynthetic measurements, and other physiological measurements from field-grown and greenhouse-grown maize.

Apply at [careers.msu.edu](https://careers.msu.edu) under job ID: 675450

## Recent Publications

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Watts JR, Ralston A. "Universal assembly instructions for the placenta." *Nature*. Volume 586 (News and Commentary). October 2020.

Aljazi MB, Gao Y, Wu Y, Mias GI, He J. "Cell Signaling Coordinates Global PRC2 Recruitment and Developmental Gene Expression in Murine Embryonic Stem Cells." *iScience*. Volume 23. November 2020.

Brock MT, Rubin MJ, DellaPenna D, Weinig C. "A nested association mapping panel in *Arabidopsis thaliana* for mapping and characterizing genetic architecture." *G3: Genes, Genomes, Genetics*. Volume 10. October 2020.

Bao Y, Magallenes-Lundback M, Deason N, DellaPenna D. "High throughput profiling of tocochromanols in leaves and seeds of *Arabidopsis* and *Maize*." *Plant Methods*. Volume 16. September 2020.

Martinez-Hackert E, Sundan A, Holien T. "Receptor binding competition: A paradigm for regulating TGF- $\beta$  family action." *Cytokine Growth Factor Rev*. Volume 55. Oct 2020.

Desguin B, Urdiain-Arraiza J, Da Costa M, Fellner M, Hu J, Hausinger RP, Desmet T, Hols P, Soumillion P. "Uncovering a superfamily of nickel-dependent hydroxyacid racemases and epimerases." *Sci Rep*. October 2020.