



Seminar Calendar

Monday, February 14

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

Paige Kies (Hammer lab) "A host-pathogen nutritional relationship: Staphylococcus aureus exploitation of the gamma-glutamyl cycle to meet the sulfur requirement"

Veronica Albrecht (Abramovitch lab) "Genetic studies of the *Mycobacterium tuberculosis* DosRST two-component regulatory system"

Noon

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

[Molecular Plant Science Seminars](#)

Jill Farrant, University of Cape Town

"Resurrection plants as models for climate smart agriculture"

4:00 PM [Zoom link](#) (Passcode: 862930)

Tuesday, February 15

The Exchange – (Science discussion for BMB graduate students)

"Journal Club: Michael Johnson, Univ. Arizona / bacterial metal homeostasis"

8:00 AM

Email David (arnosti@msu.edu) for the Zoom link and password

[PRL Tuesday Noon Seminars](#)

Brittini R. Kelley, MSU "Investigating the Impacts of Drought on Root Microbiome Assembly"

Noon [Zoom link](#) (passcode prl2021)

[Microbiology & Molecular Genetics Seminars](#)

Carrie Shaffer, University of Kentucky "*Helicobacter pylori* exploits trans-kingdom conjugation to elicit STING signaling"

3:10 PM [Zoom link](#) Email MMG.Seminars@campusad.msu.edu for the password

Wednesday, February 16

Metabolism, Membranes and Metalloenzymology Interest Group

Josh Vermaas "Determining Passive Permeation Rates for Plant Organics through Molecular Simulation"

4:00 PM Email Teri (compeaut@msu.edu) for the Zoom link

Thursday, February 17

[BMB Seminar Series](#)

Noteworthy News



Join me in congratulating Sebla B. Kutluay who has been selected as the 2022 R. Gaurth Hansen Award winner.

Kutluay is an Assistant Professor in the Department of Molecular Microbiology at Washington University School of Medicine.

Kutluay earned her PhD at MSU under the supervision of BMB faculty member Steve Triezenberg.

Her dissertation research focused on the role of chromatin-related proteins in regulating gene expression during herpes simplex virus infection.

Read more [here](#).

SPARTANS WILL.

Michael Johnson, University of Arizona
“Understanding why Copper and the Pneumococcus don’t get along”
11:00 AM [Zoom link](#) (Passcode: 698925)

[EEB Seminar Series](#)

Chelsie Rochman, University of Toronto
“The fate and effects of microplastics in aquatic ecosystems”
3:30 PM Email Barbara (ceb@msu.edu) for the Zoom link

Announcements

The RTSF Mass Spectrometry and Metabolomics Core has temporarily moved to room 116 on the first floor in the Biochemistry building to allow for renovation of the basement facility space. Core operations will continue as normal in room 116 until the basement renovations are completed. Questions can be sent to (RTSF.MassSpec@msu.edu).

The Office of Postdoctoral Affairs is now accepting applications for the 2022 Postdoctoral Excellence in Research Award (PERA) and the 2022 Postdoctoral Excellence in Teaching and/or Mentoring Award (PETMA). You can find out more about the awards by [here](#).

Provost Teresa Sullivan will be giving a talk on "An Equation for Women's Success" at the (virtual) Global Women's Breakfast (GWB) on Feb. 16 from 9-10 a.m. The aim is to celebrate the accomplishments of Women in Science and to inspire younger generations to pursue careers in science. The theme for 2022 is “Empowering Diversity in Science”. Pre-registration can be done [here](#).

“Fatherhood Forum - Today's Fathers: Caring, Committed, and Conflicted”. Based on President Stanley’s [2030 Strategic Plan](#) to create nationally recognized caregiving services, as well as a recent review conducted by the WorkLife Office - many MSU constituents requested a focus on the changing roles of fatherhood in both personal and professional spheres, as well as how MSU can support these changes. These pressing questions, and more, will be addressed in an upcoming event for the 7th Annual Fatherhood Forum Wednesday, March 16th from 12-1pm | [Register Here](#) for this Zoom Webinar.

Michigan DNA Day is recruiting science ambassadors. In 2019 they reached over 4,300 students in 120 classrooms all over Michigan. In 2021 they impacting over 1,000 students in 35 classrooms. They are looking for enthusiastic scientists (with a B.A./B.S. or early-career Ph.D.) to lead a virtual or in-person visit to a high school classroom, present a DNA-related lesson, and serve as a role model for the next generation of scientists. Visit their [webpage](#) to sign up or for more information.

A lot of employment opportunities this week:

Kadeem Gilbert (Plant Biology) is hiring a postdoc with experience in molecular biology and/or bioinformatics to help with analysis for leaf surface pH regulation transcriptome and metatranscriptome projects. Find out more [here](#) or email Kadeem (gilbe334@msu.edu) directly.

The Brudvig lab (Plant Biology) has an opening for an REU student this summer, with restoration and fire ecology of oak savannas in Michigan (at the MSU MacCready Reserve). Individuals must be undergrads through at least the summer (can’t be graduating in May – NSF rules; sorry). Stipend, travel, and research expenses are all covered. Email Lars (brudvig@msu.edu) directly for more information.

The Josephs lab is looking for an undergraduate research assistant interested in plant biology, ecology, and evolution. Job duties include taking weekly images on growing capsella plants and logging the leaf changes. You can also learn how to do image analysis, DNA extraction, RNA extraction, and PCR. No prior experience is needed. Email Asia (highto29@msu.edu) with questions.

The Walters applied forest ecology (silviculture) lab at MSU is seeking 6-8 students (or recent graduates) to join their crew this Spring and/or Summer. The lab is currently collecting deer usage and tree regeneration data following various harvest treatments. This work takes place across 70 different northern hardwood forests in Michigan and consists of quantifying deer usage in the Spring, followed by quantification of tree regeneration, herbaceous vegetation coverage, and ground disturbance on these sites in the Summer. Email Evan (farinosi@msu.edu) for details.

The Lehti-Shiu/Shiu lab is looking for undergraduate students interested in gaining research experience to help with studies of fitness in the model plant *Arabidopsis thaliana*. This is a paid position (~5–10 hours/week), and specific duties include plant maintenance, scoring phenotypes such as flowering time, fruit number, and seed number, and assisting with general lab tasks. For more information, please contact Melissa Lehti-Shiu (lehtishi@msu.edu).

The Naegele Lab is looking for an undergraduate assistant. The position is paid with no experience necessary. An interest in biology, horticulture, genetics, plants, or related topics is a plus. The position will provide training on sugar beet trait identification, marker development (genotyping plants through sequencing or PCR), breeding and microbes. Contact Dr. Naegele (naegeler@msu.edu) for more information.

There are multiple open positions in San Diego with Gilead Biologics Upstream Development/Cell Culture. They are looking for MS and BS graduates to work in upstream process development/cell culture.

1. Sr Research Associate I (\$8k sign-on bonus). [Apply here](#). Qualifications: MS Chemical/Biological Engineering (or related) 0+ or BS 2+ years industry experience
2. Research Associate (\$8k sign-on bonus). [Apply here](#). Qualifications: BS Chemical/Biological Engineering (or related) 0+ years industry experience
3. Intern Biologics Drug Substance Upstream Process Development (Summer 2022). [Apply here](#). Qualifications: BS Chemical/Biological Engineering (or related) undergraduate student

Recent Publications

Dong H, Sousa LDC, Ubanwa B, Jones AD, Balan V. "A New Method to Overcome Carboxamide Formation During AFEX Pretreatment of Lignocellulosic Biomass." *Front Chem*. January 2022.

Sharma G, Song LF, Merz KM. "Effect of an Inhibitor on the ACE2-Receptor-Binding Domain of SARS-CoV-2." *J Chem Inf Model*. February 2022.

Oh S, Kong Q, Montgomery BL. "Guard-cell phytochromes impact seedling photomorphogenesis and rosette leaf morphology." *MicroPubl Biol*. January 2022.

Chin M, Suh SM, Fang Z, Hegg EL, Diao T. "Depolymerization of Lignin via a Microscopic Reverse Biosynthesis Pathway." *ACS Catalysis*. February 2022.