



Seminar Calendar

Monday, November 22

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

Hunter North (Crosson lab) "A genetic link between inorganic nitrogen assimilation and cell cycle control in *Caulobacter*"

Chris Buehl (Meek lab) "Assessing the Effects of DNA-PKcs Dimerization Mutants on DNA Double-Strand Break Repair"
Noon

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

[Molecular Plant Science Seminars](#)

Bruce Reisch, Cornell University

"The *Vitis*Gen2 Project: Next generation technologies to accelerate grapevine improvement"

4:00 PM

[Zoom link](#) (Passcode: 862930)

Tuesday, November 23

[Microbiology & Molecular Genetics Seminars](#)

Eduardo Gonzalez-Pastor, Center of Astrobiology - Madrid, Spain "Exploring new mechanisms of resistance to extreme conditions in microorganisms and their use in biotechnology"

3:10 PM

[Zoom link](#)

Email MMG.Seminars@campusad.msu.edu for the password

Announcements

Students who will not be returning home for Thanksgiving break are encouraged to attend a Thanksgiving Unity Dinner, hosted by Student Life and Engagement, from noon to 2 p.m., Nov. 25. Also, volunteers are needed. Learn more [here](#).

Many students struggle to afford both school expenses and food. Recent changes to federal nutrition policy have expanded those eligible for the Supplemental Nutrition Assistance Program, previously known as the food stamp program. Online resources and more information about SNAP are available on the MSU Student Food Bank website. Read more [here](#).

The office of Biochemistry and Molecular Biology has once again decided to sponsor children for the holidays. Stop by room 212 and pick up a paper "ornament" listing items that the children have requested or

Noteworthy News



Please join me in congratulating Christoph Benning and Gregg Howe for being recognized in the 2021 Highly Cited Researchers List compiled by Clarivate Analytics.

Each year, the Web of Science Group identifies the world's most influential researchers. The list includes those who have been most cited by peers over the past decade.

This year 11 faculty from MSU were recognized. Read more [here](#).

SPARTANS WILL.

contact Ashley Wallin (clarkas@msu.edu) to make a donation or to request the Amazon wish list. Read more [here](#).

Krystina Hird will be presenting her Preliminary Exam “Elucidating the Mechanism of Cytochrome c Nitrite Reductase” Tuesday, November 23 at 2:00 pm. Email Jessica (jesslaw@msu.edu) for the Zoom link and password.

The Department of Computer Science and Engineering is starting a course CSE 891 – that is intended to be a programming in Python course for graduate students who need to learn programming to complete their graduate studies. If students want to register for the class should contact Sandeep Kulkarni (sandeep@msu.edu) as all students would need an override to enroll in this class.

For patients age 12 and up, flu shots and COVID-19 vaccinations are available via appointment through the MSU Health Care Pharmacy. For patients ages 5 to 11, MSU Health Care Pediatrics is also offering appointments. Read more [here](#).

Save the date for the [20th National Postdoctoral Association Annual Conference](#) April 1-2, 2022, in Chicago at the [Palmer House Hilton](#). The conference includes interactive keynote sessions with world-class leaders, workshops on cutting edge issues for postdocs and postdoc office leaders, a live poster experience, live/virtual event connectivity on Whova, networking and social sessions, and fun new ways to meet peers from other institutions. Anyone interested in attending should contact Aaron Reifler (reiflera@msu.edu) to discuss registration discounts and group transportation.

Job / internship postings:

The [Benning lab](#) is looking for a freshman or sophomore student to join their lab ~10 hours a week during the school year and ~15 hours a week during summer. Must be able to work Summer 2022. The position includes lab tasks such as: media making, solution preparation, equipment prep for green algae project and may lead to assisting with experiments. Interested applicants should contact Linda Danhof (danhof@msu.edu).

Postdoctoral funding is available for up to three years on UW-Madison’s NIH T32 funded Metabolism and Nutrition Training Program (MANTP) (<https://nutrisci.wisc.edu/nih-training-grant/>). Thirty-two faculty trainers conduct research programs ranging from molecular and genetic studies of metabolism and metabolic disease to population-based programs aimed at identifying role of lifestyle and genetics on the incidence of nutrient-linked chronic diseases. Contact program director Eric Eisenstein (Eisenste@nutrisci.wisc.edu) with questions.

An NIH funded postdoctoral research position is available immediately in the [Weller lab](#) in the Department of Molecular Biology and Biophysics at the University of Connecticut School of Medicine in Farmington CT. The Weller lab uses biochemical, biophysical and molecular genetic approaches to study the mechanisms and enzymology of viral genome replication in two major families of viruses: the Coronaviruses (primarily SARS-CoV-2) and the Herpesviruses (primarily HSV and HCMV). Applicants should be recent Ph.D. graduates and have experience working with nucleic acids and proteins. The ideal candidate will have technical expertise in protein expression and purification, nucleic acid biochemistry, assay development and enzymology and biophysical methodology for protein/ligand interactions. Questions should be directed to Sandra Weller at (weller@uchc.edu).

Recent Publications

Lou YR, Anthony TM, Fiesel PD, Arking RE, Christensen EM, Jones AD, Last RL. "It happened again: Convergent evolution of acylglucose specialized metabolism in black nightshade and wild tomato." *Sci Adv.* November 2021.

Steele JFC, Kerfeld CA. "Bioenergetics theory and components: The shells of bacterial microcompartments." *Encyclopedia of Biological Chemistry: Third Edition.* July 2021.

Lundquist PK, Susanto FA. "Lipids: Biogenesis of lipid droplets." *Encyclopedia of Biological Chemistry: Third Edition.* July 2021.

Sharkey TD. "Photosynthesis: Photosynthetic carbon dioxide fixation." *Encyclopedia of Biological Chemistry: Third Edition.* July 2021.

Ghosh Jha SG, [...] Gomez-Cano F, [...] Rhee SY, Plant Cell Atlas Consortium. "Vision, challenges and opportunities for a Plant Cell Atlas" *Elife*, September, 2021.

Gavvani HN, Fawaz R, Ehyaei N, Walls D, Pawlowski K, Fulgos R, Park S, Assar Z, Ghanbarpour A, Geiger JH. "A structural explanation for the mechanism and specificity of plant branching enzymes I and IIb." *Journal of Biological Chemistry.* November 2021.

Han Y, Xu Y, Ye Q, Li J, Fang Z. "Marine Sponge-Inspired Organic–Inorganic Double-Network Strategy to Produce Magnesium Oxychloride Cement with Integrated Water Resistance and Compressive Strength." *ACS Sustainable Chem Eng.* November 2021.

