



Please send submissions to Jeff Mason, masonje6@msu.edu

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Because of the holidays, the next newsletter will be published January 7th

Seminar Calendar

Wednesday, December 22

Metabolism, Membranes and Metalloenzymology Interest Group

Nisha Jangir TEAM-UP postdoc

(Mentors Hausinger/Hegg/TerAvest)

“Engineering an electron conduit to cross the inner membrane of bacteria”

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

Announcements

The BMB office will be closed the week of December 27th.

BMB student Deanna Broadwater (committee members Lunt(s), Neubig, Zacharewski and TerAvest) will be presenting her Doctoral Dissertation Defense titled “Tunable Fluorescent Organic Salts for Imaging and Therapy” Tuesday December 21 at 12:00 p.m.

Plant Research Lab Faculty Candidate Maria Ermakova will present “The energy cost of C4 photosynthesis” Thursday, January 6 at 10:00 am in PLB 247 and by [Zoom](#). Email Keri (morrisk@MSU.EDU) for the passcode.

MSU Health Care is now providing additional COVID-19 PCR testing, plus influenza and RSV testing, with overnight results. For more information, visit [MSU Health Care](#). The cost of the test at this location will be billable to insurance for those with symptoms or exposure. **If you are not experiencing symptoms, have not been recently exposed to anyone diagnosed with COVID-19, and do not have any risk factors, you are required to pay a fee \$100 for your COVID-19 test.** If you are a faculty, staff, or student, you still have the option for free testing through the Early Detection Program.

Drs Tom O'Halloran and Keith MacRenaris will be offering MMG 991 Metals in Biology: Emerging Quantitative Methods in Inorganic Physiology I spring 2022 (meeting time TBD during the first week). To Register: MMG 991, Section 001; CEM 913, Section 002. This two-credit graduate course will explore applications of emerging quantitative methods in the field of inorganic physiology.

Postdocs - the [L'Oréal USA For Women in Science fellowship program](#) honors female scientists at a critical stage in their careers with grants of \$60,000 each. Since 2003, they've awarded 90 postdoctoral women

Noteworthy News



Thank you all who donated to this year's Giving Tree. This is BMB's third year participating. We were able to give 5 foster children gifts for the holidays.

Around 70 items were donated in person, multiple others were gifted through Amazon. Some of those items are as follows - several gift cards, back pack & duffle bag, toddler bedding set, baby snow suit, clothing items for multiple children portable DVD player & dvds and several books, toys, games and craft supplies.

SPARTANS WILL.

scientists over \$4 million in grants. They're seeking exceptional female scientists looking to advance their research and serve as role models for the next generation of girls in STEM. Candidates are selected from a variety of fields including the life and physical/material sciences, technology (including computer science), engineering, and mathematics. More information [here](#).

The computational laboratory of Dr. Jacqueline Dresch at Clark University is looking for Ph.D. students interested in mathematical modeling, bioinformatics, parameter estimation, transcriptional regulation and development. As a computational lab, the primary research focus is on model predictions and data fitting; thus, each project requires collaboration with scientists across disciplines. Questions (jdresch@clarku.edu).

MSU is again providing an Emergency Training session (on Zoom) to take place on Friday, January 7, from 1:00-2:30. The session will emphasize topics related to Disruptive Student Situations and Classroom Safety. In addition, officers will respond to any questions participants might have about any potential emergency situation. [Zoom link](#) (meeting ID: 946 2506 1600) passcode: MSUDPS.

An updated NSF program solicitation ([NSF 22-532](#)) is now available: Understanding the Rules of Life: Emergent Networks (URoL:EN) [here](#). The URoL:EN program offers opportunities for support of projects in which researchers in the mathematical, statistical, and computational sciences partner with colleagues in biology, geology, engineering, and other disciplines to develop predictive understandings of how key properties of living systems emerge from the interactions of genomes, phenotypes, and other factors, and how emerging networks of natural, social, and human-engineered systems influence their environment. An informational webinar will be held on Friday, January 7th, from 2:30 - 3:30 PM EST. To participate, please register [here](#). Questions can be directed to (e-networks@nsf.gov).

Recent Publications

Wu HL, Hsu PY. "RiboPlotR: a visualization tool for periodic Ribo-seq reads." *Plant Methods*. Dec 2021.

Attanayake G, Mao G, Walker KD. "Semibiocatalytic Approach toward Regioisomerically Enriched Ethyl Dimethylpyrazines Important in Flavor Industries." *J Agric Food Chem*. December 2021.

Dixon T, Lotz SD, Dickson A. "Creating Maps of the Ligand Binding Landscape for Kinetics-Based Drug Discovery." *Methods Mol Biol*. December 2021.



Image by BMB graduate student Kayla Johnson