



Seminar Calendar

MSU IT: Fall Educator Seminars

Attention: Academic Faculty and Staff August 24-26, 2022 — 9 a.m.–4 p.m. Join MSU IT, MSU Libraries, and The Center for Teaching and Learning Innovation at the virtual 2022 Fall Educator Seminars...

TEAM-UP Seminar: Sarah Percival Using Topological Data Analysis to Study Plant Morphology

August 25, 2022 — 11:30 a.m. 208 BCH If you would like to Zoom in, click here. Passcode: 084913

Coming Soon: Fall Colloquium Series

Our first seminar speaker will be Blanca Barquerea presenting "When structure meets function: Energy metabolism in bacteria." More information will be available next week.

Note: Due to concerns regarding the time constraint of 50 minutes for the seminars, a new time and location have been secured.

Time change: The presentations will now be from 10-11 a.m. Location change: BPS 1425

The Fall BMB 978 Colloquium Seminar series will begin Thursday September 1, 2022 and run through December 8, 2022. The complete schedule is available on the BMB Fall Seminar Series website.

Many speakers are planning to visit in-person which is terrific! A zoom option will continue to be offered for all seminars as well.

Noteworthy News



Congratulations on Your Promotion!

Martha Faner Associate Professor Björn Hamberger Associate Professor Min-Hao Kuo Professor Kristin N. Parent Professor Amy Ralston Professor

SPARTANS WILL

Mark Your Calendar

ETD Deadline Day for Summer 2022 Semester

Audience: Current Graduate Students August 24, 2022 — 5 p.m. The deadline for FINAL APPROVAL of an electronic Thesis or Dissertation by the Graduate School is Wednesday, August 24 at 5 p.m. Learn more here.

Graduate School Welcome & Resource Fair

Audience: New and Returning Graduate Students August 27, 2022 — 10 a.m.-12 p.m. All new and returning Graduate Students are invited to attend the annual welcome program for graduate students of MSU.

Graduate Student Success – Paving Your Own Pathway for Professional Success

Audience: Current Graduate Students August 29, 2022 — 6 p.m.-7:30 p.m. In this session, we will highlight some of the programs and opportunities that are available to you as an MSU graduate student and introduce you to a framework to help you think about how to identify your career goals and design your graduate experience so that you can achieve them.

Graduate Student Success – Wellbeing & Graduate School: The Key to Your Success

Audience: Current Graduate Students August 30, 2022 — 6 p.m.-7:30 p.m. In this session, you will learn about the Graduate School's value for well-being as well as practical tips to help you manage your health and well-being while advancing your academic and professional goals.

Graduate Student Success – Setting Expectations in Graduate Education

Audience: Current Graduate Students August 31, 2022 — 6 p.m.-7:30 p.m. This short workshop provides an opportunity to explore strategies for aligning expectations early in your trajectory in graduate school and will inform you about other activities and resources to help you in that task.

Google PhD Fellowship

Attention Doctoral Students August 31, 2022 — Pre-screening form due by 8 a.m. MSU may nominate up to 4 students for the Google PhD Fellowship. The Google PhD Fellowship Program was created to recognize outstanding graduate students doing exceptional and innovative research in areas relevant to computer science and related fields.

STEM Ambassadors Program

Attention Doctoral Students Deadline: September 2, 2022 MSU may nominate up to 4 students for the Google PhD Fellowship. The Google PhD Fellowship Program was created to recognize outstanding graduate students doing exceptional and innovative research in areas relevant to computer science and related fields.

Climate Change Research Support Program

Attention Current Graduate Students Deadline: September 9, 2022 MSU graduate students are eligible to submit proposals for the Climate Change Research Support Program. This program is an important initial funding mechanism to support promising new initiatives in key areas of research, scholarship, and multidisciplinary collaboration in response to the global climate crisis.

International Symposium on "Technologies in Brain Cancer"

Audience: All September 30, 2022 — October 1, 2022 The University of Michigan Biolinovations in Brain Cancer is now accepting abstract submissions and registrations. The symposium will bring together scientists to bridge the gap between brain cancer biology research and novel technological developments in order to advance the diagnosis and treatment of glioma.

Announcements

Course Announcement: BMB 829 New Modular Format for Fall 2022

Biochemistry & Molecular Biology announces the revised and reformatted version of BMB 829, Special Problems in Macromolecular Analysis and Synthesis, in a modular format designed for adaptability to the needs of students with a wide variety of research interests touching on contemporary biomolecular research.

We have many spots still open for all modules. Please enroll soon!!

NOTE: A passing grade in module one is required for enrollment into modules 2,3,4 (and 5 if that ends up being offered this fall). Please go ahead and enroll in these other modules now, however, since the system won't restrict you from enrolling, it's just that you would be dropped from modules 2,3,4 (and/or 5) if module one is not successfully completed beforehand.

COVID-19 Guidance for International Travel

Attention Staff, Faculty, Research Associates, and Graduate Students To help field questions, Global Safety has developed a guide with recommended steps and resources. This is available as a PDF and on the Global Safety website at www.globalsafety.msu.edu/positive-COVID-19.

Office of Admissions Raising Cutoff Score for Duolingo

Attention Graduate Program Directors, Graduate Academic Program Coordinators, and Students The Office of Admissions is raising the cutoff score for Duolingo from 105 to 110 for both undergraduate and graduate applicants, with a provisional admission score range of 95 to 105. This change will apply to Fall 2023 applicants and beyond. Learn more here.

WRA 495: Working with Multilingual Writers

Audience: Current Graduate Students This course aims to raise awareness of how people develop written and digital literacy skills in an additional language and how to apply this knowledge when providing feedback on writing with multilingual writers in university contexts. Learn more here.

MSU Graduate Career Advising Dropbox

Audience: Current Graduate Students MSU graduate students can now have their professional documents (resumes, cover letters, etc.) reviewed by a Graduate Career Advisor through the Office of Graduate Career Development electronically and without needing to make an appointment. A response with feedback on your document(s) will be emailed with one week. Simply complete this form. You must be signed into Google via your MSU email address to access the form.

Jobs

Tenure Track Assistant Professor of Biology (Plant Biology)

Kenyon College invites applications for a tenure-track position in the Department of Biology starting in July 2022. We seek a broadly trained biologist with expertise in plant biology at the organismal level. To complement current faculty expertise, we seek candidates whose research focuses on plants, including structure, physiology, systematics, biochemistry, plant disease, environmental biology, and related fields.

All application materials must be submitted electronically through Kenyon's employment website: http://careers.kenyon.edu. Review of applications will begin on September 12, 2022. Please direct questions to Wade Powell, Search Committee Chair (powellw@kenyon.edu).

Lead Scientist I — Discovery (Program Lead)

Kalsec in Kalamazoo, Michigan, seeks a Lead Scientist to lead research efforts for their Novel Natural Compound Discovery platform. The ideal candidate would have experience in natural products chemistry/Pharmacognosy. A bit about Kalsec: "Kalsec provides natural Taste & Sensory Solutions, Colors, Food Protection and Advanced Hop Products to the food and beverage industries. We capture the best nature has to offer and utilize over 60 years of experience and industry leading innovation to make food and beverage products look better, taste better and last longer."

Postdoctoral Research Associate Position

Rob Quinn in BMB seeks a Research Associate to work on an NIH funded project to understand the role of the lung microbiome in Cystic Fibrosis. Patients with this disease battle complex lung infections throughout their lifetime and our laboratory is studying how microbial metabolism and dynamics may be responsible for the progression of CF disease. This project involves a multi-faceted approach including microbial culture models of the lung environment, big data multi-omics analysis, and mathematical modeling. Skills in microbiology and multi-omics data generation, including mass spectrometry and high-throughput nucleic acid sequencing, are highly desirable.

Postdoctoral Research Associate Position

The lab of Tommy Vo, BMB, is seeking to hire a postdoc available to study the regulation of epigenetic histone modifications during development and stress response. Available projects in the lab will employ genetic, genomic, molecular, and biochemical approaches to understand the mechanistic role of transcription machinery in specifying and modulating histone modifications in the fission yeast, Schizosaccharomyces pombe. The position is in a young lab in which the research associate will uniquely benefit from experiencing, first-hand, a new lab environment. Contact Tommy Vo for information vottommyv@msu.edu. See job posting and apply at this link.

Postdoctoral Research Associate Position

The Jin He lab in Biochemistry and Molecular Biology is seeking a Research Associate to use mouse models to study the epigenetic mechanisms in brain development and neurodevelopmental diseases such as autism spectrum disorder, intellectual disability, and attention deficits/hyperactivity disorder. A PhD is required in Neuroscience, Genetics, Molecular Biology. Please contact Jin He directly hejin1@msu.edu. See the job posting and apply at this link.

Paid Research Opportunity for Undergraduate and Graduate Students

The Guys/Girls Opt for Activities for Life (GOAL) trial research team is in immediate need of students to assist with this large-scale NIH-funded study. We are starting in 4 urban schools with approximately 63 adolescent-parent dyads per school in the fall of 2022 and will continue into the spring of 2023. We are recruiting for Data Collectors, Physical Activity and Nutrition Intervention Coaches (1-2 days/week for 13 weeks), Intervention Leads (1-2 days/week for 13 weeks), Dietary Recall Specialists, as well as Process Evaluators. The positions that require transportation to schools will have transportation provided.

Students can contact the Project Manager Aisha Hilliard of the GOAL trial at hilla151@msu.edu if interested in discussing these outstanding opportunities.

Student Position: BMB Kaguni Lab

Seeking a student employee for general lab duties, dishwashing, etc. Contact Dr. Jon Kaguni kaguni@msu.edu.

Recent Publications

Bird, K.A., Jacobs, M. et. al. "Parental origins of the cultivated tetraploid sour cherry (Prunus cerasus L)." Plants People Planet. (2022).

Bibik, J.D., Weraduwege, S.M., Banerjee, A., Robertson, K., Espinoza-Corral, R., Sharkey, T.D., Lundquist, P.K., Hamberger, B.R. "Pathway engineering, re-targeting, and synthetic scaffolding improve the production of squalene in plants." ACS Synthetic Biology Vol. 11, Iss. 6 (2022).

Tinney, K.R., Dover, J.A., Doore, S.M., and Parent, K. "Shigella viruses Sf22 and KRT47 require outer membrane protein C for infection." Biochimica et Biophysica Acta (BBA) – Biomembranes Vol. 1864, Iss. 7 (2022).

Rossi, M., Altea-Manzano, P., Demiccò, M. et. al. "PHGDH hetero-oligomerization potentiates cancer cell dissemination and metastasis." Nature 605, 747–753 (2022). https://doi.org/10.1038/s41586-022-04758-2

See story on Sophia Lunt's collaborative research on molecular workings of a certain form of metastatic Breast cancer in MSU Today.

To provide feedback or submit content, please email bmb.web@msu.edu. Don't forget to follow us on social media! College of Natural Science | BMB Weekly | Vol. 55, No. 30