



Announcements

[Final Summer BMB Picnic](#)

Thursday, August 15 at noon in the Biochem Courtyard.

[Graduate Student Welcoming, Orientation and Resource Fair](#)

Mini Workshops will be presented by Graduate School staff. Topics include setting expectations, wellness, and career planning & student success. Each workshop will be 20 minutes long. Saturday, August 24, 2019, 9:00 AM – 12:00 PM, MSU Union

[COGS Fall Welcome Cookout](#)

For new and returning graduate students and their families. Saturday, August 24, 2019, Noon - 3pm.

[2019 Conference on Computational Health](#)

George Mias is organizing a Conference on Computational Health in Grand Rapids (at Secchia) on August 27th, as part of the Systems Computational Omics group initiative. This one-day conference will showcase the newest research in computational biology and health at Michigan State University, from the Systems Computational Omics group, and highlight the interdisciplinary connections between computational and statistical work, and clinical research. The social program will focus on facilitating cross-disciplinary connections between computational and clinical/experimental researchers, that may lead to fruitful translational collaborations towards improving global healthcare.

[Postdoc positions, University of North Texas](#)

There are 2 PostDoc Positions available in the BioDiscovery Institute at the University of North Texas in the Alonso Lab. These postdocs will study the function of candidate genes involved in lipid storage and stability in pennycress, a promising alternative source of aviation fuel. This is part of a new interdisciplinary project funded by the Department of Energy for 3 years. If you are interested, contact me. Please share... Keywords: Lipidomics, Plant Biochemistry, Seed Metabolism, 13C-Labeling, Fluxomics, Mass Spectrometry. Contact [Ana Alonso](#).

Noteworthy News



Adam Fillion, a junior majoring in biochemistry and molecular biology, won the STEM Grand Prize for his work titled, "*Specific Binding to Magnetic Nanoparticles as a Method of Mitochondrial Purification and Immobilization.*"

Fillion developed a microfluidics-based platform to study mitochondrial-dependent metabolism by the simultaneous detection of oxygen consumption and electrochemical current. His results suggest magnetic nanoparticles are a useful tool for immobilization of biological samples in microchannels without the need for specialized preparation procedures. Read the full story at [MSUToday!](#)

SPARTANS WILL.

Postdoc positions, University of Arizona

We have two postdoc positions to fill in the Riedel-Kruse Lab, Department of Molecular and Cellular Biology, University of Arizona. Our research focuses on engineering multi-cellular bacterial systems while controlling their morphology, patterning, dynamics, and environmental responses. Past projects include the engineering of the first synthetic, fully genetically encoded cell-cell adhesion toolbox [Glass Cell 2018] and the first high-resolution optogenetic cell-surface patterning method ('Biofilm Lithography') [Jin PNAS 2018] – providing critical tools for engineering synthetic multi-cell systems.

Postdoctoral position, Virginia Tech School of Plant and Environmental Sciences

Dr. Song Li's research group at the School of Plant and Environmental Sciences, Virginia Tech, VA, USA, is looking for a highly motivated postdoctoral associate to work on single cell regulatory network analysis in plant roots starting in Fall 2019. The appropriate candidate should have a strong background and interest in plant genomics, network analysis, sequence analysis and machine learning.