The BMB Weekly  Vol. 48, No. 38 | September 21-25

Please send submissions to: Jim Stewart | jstewart@msu.edu | 212 Biochemistry (Mailbox on 2nd floor)

Road Closures Notice: Please visit the updated interactive campus detour map link, http://gis.msu.edu/detours/, for further clarification on construction detour routes.

Recent Publications
http://pubs.acs.org/doi/abs/10.1021/acssynbio.5b00131

Congratulations!
The BMB Awards Committee would like to congratulate Dr. Monique Floer for being the 2015 recipient of the College of Osteopathic Medicine - Early Promise of Research Excellence Award.

The COM Early Promise of Research Excellence Award is given to faculty members who have demonstrated early success in research. Those individuals that have done such things as developed research programs to explore the basic tenets of the osteopathic profession and/or enhanced the research stature of the college.

SAVE THE DATE!!!
Dr. Floer will be recognized at the COM Fall Faculty Assembly held Tuesday, September 29, 2015 in E105 Fee Hall.
- Refreshments at 5:00 PM
- Meeting and Awards recognition at 5:15 PM (the awards portion will be towards the beginning of the meeting)
- If you are planning to attend please RSVP directly to Colleen Kniffen at kniffen@msu.edu

Seminar Calendar  
Click for CNS Events Calendar

Monday, September 21:
Institute for Cyber-Enabled Research: 9/21 – 9/22 9:00 AM – 4:00 PM Instructor: Dr. Matthew Scholz, Dharanya Sampath “RNA-Sequencing Tools” Room 3405, Engineering Cost $25, Click here to register

BMB Special Seminar: Dr. Manajit Hayer-Hartl Department of Cellular Biochemistry, Max Planck Institute of Biochemistry Germany “Molecular chaperone machineries for the biogenesis of RuBisCO: The most abundant protein”
Note: Special time and Location: 1:00 PM, Room 1400 Biomedical Physical Sciences

PRL and Plant Biology Seminar: Yaowu Yuan (PLB) University of Connecticut “Developmental Genetics of Pollinators-associated Floral Traits” 4:10 PM, Room 101 Biochemistry

Tuesday, September 22:
Institute for Cyber-Enabled Research:
- Parallel Computing with MATLAB, 9:00 AM – 12:00 PM, Room 1455(A) Biomedical Physical Sciences Click here to register
- Analyzing and Visualizing Data with MATLAB, 1:30 PM – 3:30 PM, Room 481 Chemistry Click here to register

MSU-DOE Plant Research Laboratory Seminar: Ian Major (Howe Lab) “Repressors of MYCs and PIFs regulate growth, defense and photosynthesis.” 12 Noon, Room 168 Plant Biology

The (3M) Interest Group: Jason Schrad (Parent Lab) “Cryo-EM of viruses” 12 Noon, Room 1425 Biomedical Physical Sciences

MMG Seminar: Sheng Yang He, Michigan State University “Bacterial pathogenesis: Lessons from a model plant system” 4:10 PM, Room 1415 Biomedical Physical Sciences
Wednesday, September 23:

**Pharmacology & Toxicology Seminar:** Dr. Nara Parameswaran “Mechanisms and Targets in Inflammation and Disease”
12 Noon, Room B448 Life Science

**Waters Corporation Applications Specialists Seminar:** “Method development for polar compound analysis using liquid chromatography as part of a brand recognition campaign.” 11:00 AM – 12:30 PM, Room 1400 Biomedical Physical Sciences.

*Free lunch for registered attendees. All who are interested in attending this seminar or/and meeting with Waters personnel may contact Eck Redmond (Eck_Redmond@waters.com) to register. The deadline for registration is Tuesday, September 22nd*

Thursday, September 24:

**Biochemistry & Molecular Biology Colloquium – William W. Wells Endowed Lectureship:** Dr. Joachim Schultz, University of Tübingen Germany “Regulated Unfolding’ ie. Transitions between ordered and disordered states: A Universal Language of Conversation in Modular Proteins” 11:00 AM, Room 101 Biochemistry

**Institute for Cyber-Enabled Research:** Instructor: Dr. Chun-Min Chang “Advanced Topics in HPCC: Parallel Computing Using MSU’s High Performance Computing Center (HPCC)” 2:00 PM – 5:00 PM, Room 1455(A), Biomedical Physical Sciences [Click here to register]

**EEBB Seminar:** Thomas Juenger, Department of Integrative Biology, University of Texas at Austin “Natural variation in ecophysiology and abiotic stress tolerance in Arabidopsis thaliana” 3:30 PM, Room 118 Eppley Center

**MSU Bakers Stand**, located by The Rock, will be open each Thursday from 9:30 AM – 3:00 PM until October 29th.

**Organic Farm Stand**, open each Thursday from 11:00 AM – 5:30 PM located just south of the Red Cedar River and north of North Shaw Lane, across from Erickson Hall. The Organic Farm Stand will be open through October 31st.

Friday, September 25:

**CDMN Drug Discovery Seminar:** Julie Clay, Sr. Research Scientist, Open Innovation Drug Discovery, Discovery Chemistry Eli Lilly and Company “For Scientists, By Scientists: Diverse models for collaboration” 9:00 AM, Room B448 Life Science

**KBS Seminar:** Thomas Juenger, Department of Integrative Biology, University of Texas at Austin “Genetic and genomic studies of upland/lowland ecotype divergence in Panicum” 10:45 AM, Room 237 Stack, Kellogg Biological Station

**Science at the Edge Seminar, Physics:** Steven Girvin, Department of Physics, Yale University “Quantum Money, Information and Computation” 11:30 AM, Room 1400 Biomedical Physical Sciences

**GEDD Transcription Journal Club:** Rima Mouwad (Arnosti Lab) 1:00 PM, Room 502 Biochemistry

**Welcome New Faculty to the BMB Department!**

**Dr. Sophia Lunt** is an Assistant Professor working on understanding the role of metabolism in supporting cancer proliferation, heterogeneity, and metastasis. She received her Ph.D. from Princeton University and did her postdoctoral work at MIT before coming to MSU. She is very excited to be a part of the BMB department!

**Dr. Michaela TerAvest** is an Assistant Professor working on understanding bacterial respiration and optimizing electron transport chains for fuel and chemical production. She also hopes to engineer reverse electron transport chains to produce fuels and chemicals using only electricity and carbon dioxide as feedstocks. Michaela uses microbial electrochemistry as a tool in most of her research, so stop by her lab in a few months to see electricity-producing bacteria in action!

**Dr. Alex Dickson** received his Ph.D. from the University of Chicago under Professor Aaron Dinner. There he developed new computational approaches to enhance the sampling of simulations that are driven out of equilibrium. Applications spanned from biomolecular systems, such as an RNA unfolding in a flowing solvent, to model systems from physics, such as sheared Ising models. In 2011, he began as a postdoctoral researcher with Professor Charles L. Brooks III at the University of Michigan in Ann Arbor, where he continued developing new enhanced sampling methods for application to atomistic biomolecular systems. A novel method, "WExplore," allows for enhancement of sampling in an undirected fashion, and
has been used to observe a wide variety of rare biomolecular phenomena. He also developed a set of analysis techniques that can help visualize the entire space of possible biomolecular conformations in a network plot.

**Announcements**

Register for the following three events on careersuccess.msu.edu/science

- **Science Networking Prep Session**
  
  **Date:** September 22nd
  **Time:** 6:00 PM – 8:00 PM
  **Location:** Room 110, Chittenden Hall

- **MSU Science Connect for Graduate Students, Postdocs, Alumni and Employers**
  
  **Date:** September 28th
  **Time:** 6:00 PM – 8:00 PM
  **Location:** Room 110, Chittenden Hall

- **Science Agriculture Food Environment + Health Career Fair**
  
  **Date:** Tuesday, September 29th
  **Time:** 2:00 PM – 6:00 PM
  **Location:** Breslin Center

**Stem Teaching**

**An Introduction to Evidence-Based Undergraduate STEM Teaching**

**Dates:** September 28-November 13, 2015 (tentative)

**Cost:** The course is FREE

Enrollment information will be announced at a later date.

Questions? Email mpoc@cirtl.net

Click here for flyer

**Job Postings**

**The University of Southern Mississippi:** The Department of Chemistry and Biochemistry invites applicants for a full-time, nine-month, tenure-track faculty position as an **Assistant Professor in Biochemistry.** Applicants must have a Ph.D. specialization in biochemistry or a closely related area and at least two years of postdoctoral research experience by the time of employment. Evidence of potential to develop a rigorous, externally funded research program that incorporates graduate and undergraduate students; evidence of commitment to excellence in teaching and professional service. Click here to view posting

**The Max Planck Institute for Chemical Ecology:** The department of Biochemistry invites talented and highly motivated candidates to apply for a full-time Postdoctoral position starting as soon as possible. The position will last for two years initially, with the option for a one-year extension.

Postdoctoral candidates should have a PhD in life sciences and some initial publications in the field of plant biochemistry or plant physiology. Experiences and good experimental skills in molecular biology and genetics as well as knowledge about plant secondary metabolism are an advantage.

**The deadline for applications is October 31, 2015.** Please send your application as a single PDF document including a detailed CV, list of publications, two references, letter of motivation and research interests via e-mail to Dr. Tobias G. Köllner: koellner@ice.mpg.de

**Wageningen UR Full time Tenure Track position as Assistant Professor:** The faculty member Plant metabolism will be responsible for setting up a research program on plant metabolism and contribute to teaching on this topic and in plant physiology in general. The candidate will develop a research line on plant metabolism, preferably on primary and secondary metabolism, for example on the connection and trade-off between these two in plant defence or the role of metabolism in plant growth and/or yield (and we welcome other ideas). The candidate is expected to collaborate with colleagues within Wageningen UR to contribute to initiatives on Biobased materials and Synthetic biology.

**The selected candidates will be interviewed by a recruitment committee in the week of December 7, 2015.**

For questions about this vacancy you can contact Prof. dr Harro Bouwmeester, e-mail: harro.bouwmeester@wur.nl
For more information about Tenure Track within Wageningen UR please look at www.wur.nl/UK/work.