



Please send submissions to Steve Lundback, lundback@msu.edu, 212 Biochemistry (Mailbox on 2nd Floor)

Seminar Calendar

MONDAY, FEBRUARY 26

[BMB Cryo-EM Faculty Candidate Seminar](#)

Robert Kirchdoerfer, The Scripps Research Institute

"Structural insights into the SARS Spike-ACE2 receptor complex"

9:00 AM, Room 1425 BPS

[PRL Seminar](#)

Sigal Lechno-Yossef, MSU-DOE Plant Research Laboratory

*"Characterization of cyanobacterial RubisCO activase in *Fremyella diplosiphon*"*

4:10 PM, Room 101 Biochemistry

TUESDAY, FEBRUARY 27

[MMG Seminar](#)

Dan Buckley, Cornell University

"Three amazing ideas about microbial biogeography that will blow your mind"

11:00 AM, Room 101 Biochemistry

WEDNESDAY, FEBRUARY 28

[Pharm-Tox Seminar](#)

Claudia Holzman, Epidemiology and Biostatistics, MSU

"The pregnancy outcomes and community health (POUCH) study: If placentas could talk"

12:00 PM, Room 448, Life Science Bldg.

THURSDAY, MARCH 1

[BMB Colloquium](#)

Jens Schmidt, OBGYN, MSU

"Molecular Mechanisms of Telomere Maintenance"

11:00 AM, Room 101 Biochemistry

[EEBB Seminar](#)

Daniel Buckley, Cornell University

"The secret life of soil microbes: Unearthing the microbial ecology of the soil carbon cycle"

3:30 PM, Room 1420 BPS

FRIDAY, MARCH 2

[SATE Seminar](#)

Karen Guillemin, University of Oregon

"Molecular Dialogues with the Microbiota: Insights from the Zebrafish Intestine"

11:30 AM, Room 1400 BPS

Noteworthy News



Beronda Montgomery was elected a Fellow of the American Academy of Microbiology. Beronda was elected for her seminal contributions to understanding physiological and morphogenic adaptation of photosynthetic microbes to light. Read the full story at [MSU Today](#).

SPARTANS WILL.

Announcements

Checkout the [Grad/Postdoc News](#) page on the BMB website for the latest events and opportunities.

Upcoming visits and seminars:

Monday, Feb. 26

GII Cryo-EM faculty candidate

Dr. Robert Kirchdoerfer

9:00 – 10:00, 1425 BPS, Seminar

10:00 – 11:00, 1425 BPS, Vision discussion

Thursday, March 1

BMB Seminar Series

Jens Schmidt

MSU College of Human Medicine

“Molecular Mechanisms of Telomere Maintenance”

11:00 – 12:00, 101 Biochemistry

Tuesday, March 6

GII Mass Spec faculty candidate

Dr. Alexander Artyukhin

Research discussion

3:30 – 5:30, 208 Biochemistry

Thursday March 8

GII Mass Spec faculty candidate

Dr. Robert Quinn returns for visit

Friday, March 9

GII Mass Spec faculty candidate

Dr. Robert Quinn

Reception

8:00 pm, Erich Grotewold’s residence

Monday, March 12

GII Cryo-EM faculty candidate

Dr. Mario Halic

9:00 – 10:00, 1425 BPS, Seminar

10:00 – 11:00, 1425 BPS, Vision discussion

[Volunteers Needed - Fascination of Plants Day](#)

The second edition of Fascination of Plants Day will be held on Saturday, May 19th, 2018. Contact Aparajita Banerjee (banerj12@msu.edu) to volunteer.

[Better Democracy through Science](#)

Join a discussion about fostering scientific integrity in a political environment that distrust science on Thursday, March 8, from 12 to 2 PM in room 2245 BPS.

[American Cancer Society Funding Opportunities](#)

Funding opportunities for cancer research, training, and career development are available through the American Cancer Society. Grand deadlines are April 1st, and October 15th.

[North American Mass Spectrometry Summer School](#)

August 6-9 2018, Madison, Wisconsin. In this four-day course, students will experience an engaging and inspiring program covering the latest in the application of mass spectrometry to omic analyses in plants and animals. Tutorial lectures range from experimental design, sample preparation, and quantification to the basics of high performance mass analyzers and data analysis. Also planned are several hands-on workshops. Limited space available. Apply now through April 1, 2018.

Recent Publications

For most publications from BMB labs during the past year, see [Recent Publications](#) on the BMB website.

Watts J, Lokken A, Moauro A, and Ralston A. "Capturing and interconverting embryonic cell fates in a dish." *Current Topics in Developmental Biology* (2018) 128, 181-199.

Raschka S, Wolf AJ, Bemister-Buffington J, Kuhn LA. "Protein-ligand interfaces are polarized: discovery of a strong trend for intermolecular hydrogen bonds to favor donors on the protein side with implications for predicting and designing ligand complexes." *J Comput Aided Mol Des.* (2018) Feb 12. doi: [10.1007/s10822-018-0105-2](https://doi.org/10.1007/s10822-018-0105-2)

Kim Y, Benning N, Pham K, Baghdadi A, Caruso G, Colligan M, Grayson A, Hurley A, Ignatoski N, McClure S, Mckaig K, Neag E, Showers C, Tangalos A, Vanells J, Padmanabhan K, Burton ZF. "Homology threading to generate RNA polymerase structures." *Protein Expr Purif.* (2018) Feb 11. doi: [10.1016/j.pep.2018.02.002](https://doi.org/10.1016/j.pep.2018.02.002)

Ciesielski GL, Nadalutti CA, Oliveira MT, Jacobs HT, Griffith JD, Kaguni LS. "Structural rearrangements in the mitochondrial genome of *Drosophila melanogaster* induced by elevated levels of the replicative DNA helicase." *Nucleic Acids Res.* (2018) Feb 8. doi: [10.1093/nar/gky094](https://doi.org/10.1093/nar/gky094)

Du ZY, Lucker BF, Zienkiewicz K, Miller TE, Zienkiewicz A, Sears BB, Kramer DM, Benning C. "Galactoglycerolipid Lipase PGD1 Is Involved in Thylakoid Membrane Remodeling in Response to Adverse Environmental Conditions in *Chlamydomonas*." *Plant Cell.* (2018) Feb 5. doi: [10.1105/tpc.17.00446](https://doi.org/10.1105/tpc.17.00446)