



Seminar Calendar

MONDAY, NOVEMBER 18

[MPS Seminar](#)

Craig Pikaard, Indiana University Bloomington

"How genes can be selectively inactivated and how the silent state can be perpetuated through multiple rounds of cell division"

4:10 PM, Room 1200 MPS

TUESDAY, NOVEMBER 19

[The Exchange](#)

Journal Club – Joerg Boehlmann, U British Columbia

8:00 AM, Room 208 Biochemistry

[MMG Seminar](#)

Deb Hogan, Dartmouth

"Heterogeneity in Chronic Lung Infections"

4:10 PM, Room 1415 BPS

WEDNESDAY, NOVEMBER 20

[\(3M\) Interest Group](#)

Shaima Muhammednazaar, Hong Lab

"Determining thermodynamic stability of a helical membrane protein in a lipid bilayer"

4:00 PM, Room 1425 BPS

THURSDAY, NOVEMBER 21

[BMB Colloquium - Tolbert Lecture](#)

Joerg Boehlmann, University of British Columbia

"A novel anti-diabetic metabolite from plants"

11:00 AM, Room 101 Biochemistry

[EEBB Seminar](#)

Nina Overgaard Therkildsen, Cornell University

"Contemporary evolution and adaptive divergence in open ocean environments: New insights and applications to fisheries management"

3:30 PM, 1420 BPS

FRIDAY, NOVEMBER 22

[Science at the Edge](#)

Elizabeth Holm, Carnegie Mellon University

"Artificial Intelligence for Generating Materials Science Knowledge"

11:30 AM, Room 1400 BPS

Noteworthy News



BMB/PRL Professor Cheryl Kerfeld will lead a team of scientists that includes five research groups from universities across the nation in a \$3.4 million Rules of Life grant to engineer a synthetic cell. In late February 2019, the National Science Foundation (NSF) gathered a group of scientists from widely different disciplines who rarely communicate — let alone collaborate — into one room, provided skilled facilitators to push their ideas to the edge of innovation and stepped back to see what would happen. "Ideas Labs" like these undergird the NSF's \$36 million dollar investment in its Understanding the Rules of Life portfolio aimed at accelerating development in two key areas of science and engineering research: building a synthetic cell and epigenetics. [More...](#)

SPARTANS WILL.

Announcements

[BMB Undergraduate & Faculty Dinner](#)

Hosted by BMB Club, November 21st, 6-7:30 pm, 1400 Biomedical Physical Science

- Bridge connections between BMB undergrads and faculty to create a stronger community
- Opportunity to connect with faculty in an informal setting
- Taco bar dinner with gluten-free and vegetarian options

[Targeting Host Immune Cells in Lethal Prostate Cancer](#)

The Alliance for Graduate Education & the Professoriate will host this special seminar by Dr. Jelani Zarif of Johns Hopkins University. The seminar takes place from 4 PM to 5 PM on Friday, November 22 at Chittenden Hall, Room 110.

[Writing Cowork](#)

Need help with scientific writing? Come join us at the Writing Cowork workshops held from 2 pm – 4 pm in BPS 2245 on November 13, November 27, and December 11.

Recent Publications

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

Rogers LRK, Verlinde M, Mias GI. “Gene expression microarray public dataset reanalysis in chronic obstructive pulmonary disease.” *PLoS One*. 2019 Nov 15;14(11):e0224750. doi: [10.1371/journal.pone.0224750](https://doi.org/10.1371/journal.pone.0224750)

Heo L, Feig M. “High-Accuracy Protein Structures by Combining Machine-Learning with Physics-Based Refinement.” *Proteins*. (2019) Nov 6. doi: [10.1002/prot.25847](https://doi.org/10.1002/prot.25847)

Morton JT, Aksenov AA, Nothias LF, Foulds JR, Quinn RA, Badri MH, Swenson TL, Van Goethem MW, Northen TR, Vazquez-Baeza Y, Wang M, Bokulich NA, Watters A, Song SJ, Bonneau R, Dorrestein PC, Knight R. “Learning representations of microbe-metabolite interactions.” *Nat Methods*. (2019) Nov 4. doi: [10.1038/s41592-019-0616-3](https://doi.org/10.1038/s41592-019-0616-3)

Dornbos P, Jurgelewicz A, Fader KA, Williams K, Zacharewski TR, LaPres JJ. “Characterizing the Role of HMG-CoA Reductase in Aryl Hydrocarbon Receptor-Mediated Liver Injury in C57BL/6 Mice.” *Sci Rep*. (2019) Nov 1;9(1):15828. doi: [10.1038/s41598-019-52001-2](https://doi.org/10.1038/s41598-019-52001-2)

Jasiński M, Miskiewicz J, Feig M, Trylska J. “Thermal Stability of Peptide Nucleic Acid Complexes.” *J Phys Chem B*. (2019) Oct 3;123(39):8168-8177. doi: [10.1021/acs.jpcc.9b05168](https://doi.org/10.1021/acs.jpcc.9b05168)

Ostrowska N, Feig M, Trylska J. “Modeling Crowded Environment in Molecular Simulations.” *Front Mol Biosci*. (2019) Sep 11;6:86. doi: [10.3389/fmolb.2019.00086](https://doi.org/10.3389/fmolb.2019.00086)