

# The George Liepa Sigma Xi Annual Speaker Series Endowed Fund Eastern Michigan University

## *“Starving Cancer Away: Deciphering Metabolic Rewiring in Cancer”*

**Dr. Sophia Lunt**



Metabolism, the process of converting nutrients into energy and building blocks of life, is distinctly abnormal in cancers. Many cancers metabolize sugar differently than normal cells; this phenomenon forms the basis for cancer diagnosis using PET imaging. However, a definitive explanation for how it benefits cancer cells remains elusive and has not been exploited for therapy. To target abnormal metabolism in cancer treatment, Dr. Lunt works to elucidate metabolic pathways indispensable for cancer growth. Her team investigates metabolic rewiring in cancer by integrating mass spectrometry-based metabolomics, genome editing, patient data, and pre-clinical models of cancer. This work will lead to development of more effective, personalized therapies for cancer based on metabolic targeting.

Dr. Sophia Lunt is an Assistant Professor in the Department of Biochemistry and Molecular Biology at Michigan State University. She received her Ph.D. from Princeton University and was awarded a DoD CDMRP PRCRP Visionary Postdoctoral Fellowship at MIT. At MSU, her team combines powerful mass spectrometry, cell biology, and genetic models of cancer to investigate metabolic regulation in this complex disease.

**Thursday,  
March 21, 2019  
7:00-8:00 p.m.  
at the  
Student Center  
Auditorium  
900 Oakwood Ave  
Ypsilanti, MI  
48197**

**Dessert Reception  
Immediately  
Following**

**For more information please contact:  
The Graduate School at  
734-487-0042 or [graduate\\_school@emich.edu](mailto:graduate_school@emich.edu).  
This event is free and open to the public.**

