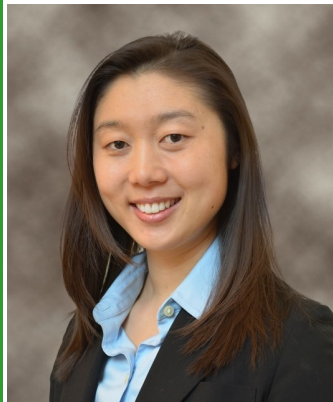


The George Liepa Sigma Xi Annual Speaker Series Endowed Fund Eastern Michigan University

“Starving Cancer Away: Deciphering Metabolic Rewiring in Cancer”

Dr. Sophia Lunt



Dr. Sophia Lunt is an Assistant Professor in the Department of Biochemistry and Molecular Biology at Michigan State University. Dr. Lunt aims to design strategies for more effective, personalized therapies for cancer based on metabolic targeting.

Her laboratory at MSU focuses on how metabolism uniquely impacts cancer proliferation, heterogeneity and metastasis.

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, and this key metabolic difference is known as the Warburg effect. The Warburg effect forms the basis for cancer diagnosis using PET (positron emission tomography) imaging, but a definitive explanation for how it benefits cancer cells remains elusive. To target abnormal metabolism in cancer treatment, Dr. Lunt works to elucidate metabolic pathways indispensable for cancer growth.

Her team combines powerful mass spectrometry, cell biology, and genetic models of cancer to investigate metabolic regulation in this complex disease.

She received her Ph.D. from Princeton University, where she uncovered the metabolic consequences of the anti-metabolite drug trimethoprim. As a postdoctoral fellow at MIT, she was awarded the Department of Defense Visionary Postdoctoral Fellowship to investigate the role of specific pyruvate kinase isoform expression in cancer.

For more information please contact:
The Graduate School at
734-487-0042 or graduate_school@emich.edu.
This event is free and open to the public.

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

