



**NIDDK P30 Center for Molecular Studies in Digestive and Liver Diseases
Research Seminar**



Andrew Hryckowian Ph.D.

Assistant Professor of Medicine, Medical Microbiology, & Immunology
(Division of Gastroenterology & Hepatology)
University of Wisconsin-Madison

"Butyrate-Imposed Tradeoffs in *C. Difficile* Metabolism and Pathogenesis"

Thursday, April 4th, 2024

12:00 – 1:00 PM EST

Lunch is provided, all are invited.

901 Biomedical Research Building or <https://pennmedicine.zoom.us/j/92047751580>

Dr. Hryckowian will discuss how the gut microbiome engenders colonization resistance against the diarrheal pathogen *Clostridioides difficile*, and how the molecular basis of this colonization resistance is incompletely understood, which hinders the development of novel therapeutic interventions for *C. difficile* infection (CDI). He will discuss work focused on understanding how *C. difficile* responds to butyrate, an end-product of gut microbiome community metabolism which inhibits *C. difficile* growth. Future work to disentangle the molecular mechanisms underlying these growth and virulence phenotypes will likely lead to new strategies to restrict *C. difficile* growth in the gut and minimize its pathogenesis during CDI.

Please visit <https://www.med.upenn.edu/CMSDLLD/>
for more information about past and future seminars.