



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



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"Dietary Regulation of Intestinal Regeneration and Cancer"

Thursday, June 8, 2023

12:00 – 1:00 PM EST

901 Biomedical Research Building or [Via Zoom](#)

Cells respond and adapt to the signals that they receive from their environment. Environmental factors such as nutrients affect cellular states by altering cell state-specific gene expression or metabolic programs. My research group investigates the causal cellular and molecular mechanisms that link nutrition to organismal health and disease. For example, diets that lead to obesity, such as high fat diets are significant environmental risk factors that influence cancer incidence and progression in several tissues. Although the interactions between tumor cells and the immune system play a significant role in tumorigenesis, little is known about how dietary perturbations impact immunity against cancer. Our studies interrogate the functional consequences of diets on immune recognition and response pathways that play critical role in cancer immunity. By identifying the altered gene expression and metabolic programs in the immune system in response to dietary perturbations, our goal is to uncover mechanistic links that can be therapeutically exploited for the treatment of diseases associated with immune dysfunction such as cancer.