



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



**Arthur Beyder, M.D., Ph.D.**

Associate Professor of Medicine & Physiology  
Department of Gastroenterology and Hepatology, Mayo Clinic

*"The Mechanosensing Gut: A Touching Story of Aging, Stiffness, and Mechanogated Ion Channels"*

Thursday, April 11th, 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. Beyder will discuss how patients with Disorders of Gut-Brain Interaction (DGBI) often experience abnormal mechanosensitivity, marked by a disrupted ability of their GI tract to accurately sense mechanical forces. In this talk, Dr. Beyder will delve into his recent research on a concept of 'gut touch'—an intrinsic tactile sensing mechanism that discerns the physical characteristics of substances within the gut lumen, and how age-related gut stiffening reprograms gut contractile function. By decoding such mechanosensing pathways, he aims to add mechanical thinking to gut physiology and pathology, paving the way for groundbreaking diagnostic and therapeutic strategies for DGBI patients.

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