



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



**Carla Nowosad, MD, Ph.D.**

Assistant Professor, Department of Pathology, Translational Immunology Center  
NYU Grossman School of Medicine

### **"The B Cell Receptor and Beyond: Specialized Functions of the BCR in the Intestine"**

**Thursday, May 9th, 2024**

**12:00 – 1:00 PM EST**

**Lunch is provided, all are invited.**

**901 Biomedical Research or <https://pennmedicine.zoom.us/j/98939770145>**

Dr. Nowosad will discuss how a large fraction of Igs are produced via germinal center (GC) responses, in structures which form dynamically upon immunization or infection in the majority of secondary lymphoid organs, but are constitutively present in gut-associated lymphoid tissue. Dr. Nowosad identified several prominent public Ig clonotypes in intestinal GCs, whose presence were tuned by microbial diversity. She has observed that these GCs persist even in the absence of microbiota, although their isotype distribution and clonal composition are altered. Despite her observations, the ontogeny and antigenic drivers of constitutive gut-associated GCs remain poorly understood. Her lab aims to explore how the 'molecular switchboard' downstream of the B cell receptor is wired in specialized tissue environments and how this feeds back onto B cell behavior, GC dynamics and antibody production.

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