Dr. Justin Wilson
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Bio:

Justin Wilson obtained his PhD from Albany Medical College studying the impact of Francisella tularensis infection on macrophage antigen presentation and T cell responses in the laboratory of Jim R. Drake. For his postdoctoral fellowship, he joined the laboratory of Jenny P-Y Ting at the University of North Carolina at Chapel Hill where his research focused on the role of the innate immune genes AIM2 and NLRP12 during the regulation of inflammatory bowel disease and colon cancer development. Dr. Wilson joined the department of Immunobiology as an Assistant Professor in June of 2018.

The Wilson Lab studies the dynamic relationship between microbes, epithelial cells and the immune system and how these interactions promote beneficial immune responses versus chronic inflammatory disorders. In order to dissect these complex interactions, the Wilson Lab utilizes a family of innate immune receptors/sensors, which respond to microbial components and host "danger signals" in order to regulate inflammation and immune responses. The dysregulation of many of these sensors has been linked to chronic inflammatory disorders (e.g., inflammatory bowel diseases) and multiple types of cancer. The lab seeks to treat these diseases through the manipulation of intestinal microbial ecology and redirection of immune activation.