Diet determines gut microbiota composition, and bacterial metabolites underlie numerous “western lifestyle” diseases.

Selected significant publications:


Our laboratory focuses on understanding mechanisms of cell migration, and cytokines and chemokines for immune responses. Our research has relevance to applied outcomes for immunological diseases, including new monoclonal antibody treatments for inflammation, fibrosis and cancer. Recently we have uncovered molecules and receptors responsible for gut homeostasis, supporting a ‘diet hypothesis’ to explain the increased incidence of inflammatory diseases in western countries.

Research Projects

1. GPR65, a receptor that explains asthma, IBD and allergy

2. Medicinal food diet to manipulate the microbiome and treat western lifestyle diseases

3. The ‘Nutrition-microbiome-physiology axis’ and mechanisms- epigenetics and GPCRs

Diet determines gut microbiota composition, and bacterial metabolites underline numerous “western lifestyle” diseases.