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**Abstract - Biomeed**

We are observing a rise in various metabolic and immune-related illnesses globally, which correlates with the westernization and globalization of our society. This suggests that the probable contributing causes of these diseases include the modern environment, diet, and changes in gut bacteria, rather than genetic drift.

Our primary focus is on studying the development of gut microbes and their association with diseases, with a specific emphasis on inflammatory bowel disease (IBD), which includes Crohn's disease and ulcerative colitis. Crohn's disease and ulcerative colitis are chronic disorders that impact over six million individuals globally. In our research laboratory, we examined a vast human cohort to identify associations related to disease pathogenesis, disease outcomes, and response to therapy. We then employ mini-gut organoids to gain a more precise comprehension of causal factors associated with disease pathogenesis and for screening new therapeutic interventions.new therapeutic interventions.

For more information check out our lab site: <https://www.habermanlab.sites.tau.ac.il/>