

Special Issue

Crohn's Disease, the Microbiome and Infections: Mechanisms, Novel Diagnostic and Therapeutic Strategies for Pathology

Message from the Guest Editors

This comprehensive review aims to explore the intricate interplay between Crohn's disease, the microbiome, and infections, with a particular focus on the underlying mechanisms, diagnostic challenges, and emerging therapeutic strategies. Crohn's disease, a chronic granulomatous inflammatory bowel disease, presents a complex pathophysiology, which is globally rising in incidence. This review will delve into the following key areas: pathogenesis and mechanisms: examination of the genetic predispositions that contribute to Crohn's disease with insights into the immune dysregulation and inflammatory processes that characterize Crohn's, including the roles of innate and adaptive immunity. Microbial interactions: analysis of the interactions between the host immune system and the gut microbiota. Pathogenic infections: exploration of the role of infections in Crohn's disease, with a focus on bacterial, viral, and fungal pathogens that may trigger or exacerbate the condition.

This Special Issue will identify key research priorities and gaps in the current knowledge that need to be addressed to advance the understanding and treatment of Crohn's disease.

Guest Editors

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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