Special Issue

Molecular Mechanisms of Chronic Intestinal Diseases in Response to Microbiota

Message from the Guest Editor

Inflammatory bowel diseases (IBD) are chronic inflammatory disorders of the intestine, involving complex interactions between host and microbiota.

The composition of the microbiota can be influenced by a variety of environmental factors. An intestinal dysbiosis may induce aberrant interactions between gut epithelium and microbiota and result in inflammatory responses to commensal microbes. Among the action mechanisms implicated in these inflammatory responses are those involved in intestinal barrier function, innate immune recognition of microbial ligands (TLR, NOD receptors), antigen presentation, T-cell immunity, autophagy, reactive oxygen generation, goblet cell/mucin production, antimicrobial peptides, Paneth cells or inflammatory mediator production.

In this Special Issue of Cells, I invite you to contribute original research articles, reviews, or shorter perspective articles on all aspects related to the theme. Expert articles describing mechanistic, functional, cellular, biochemical, or general aspects of intestinal inflammation in response to microbiota are highly welcome.

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2022)

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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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