

Special Issue

Precision Medicine in Inflammatory Bowel Diseases: Epigenetics, Gut Microbiome, Sex Differences and Beyond

Message from the Guest Editor

The interplay between host genome, epigenetics, mucosal and systemic immunity, and gut microbiome in the pathogenesis of IBD is a matter of deep interest, both at basic and translational research level. The gut microbiome is able to shape both the intestinal and the systemic immune response. Inappropriate mucosal immunity/gut microbiome interaction can become detrimental and play a central role in driving the development and/or the worsening of IBD.

In an era moving toward precision medicine, a personalized and sex-based approach to treat IBD patients is strongly warranted. This Special Issue aims to discuss state-of-the-art research on the human gut microbiome's role in the pathogenesis of IBD, and also as a potential contributor to sexual dimorphism in IBD. We will include epigenetics studies, such as those focused on circulating IBD methylome, as well as studies analyzing other 'omics' data (i.e., transcriptomics, metabolomics, proteomics).

Guest Editor

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