

Special Issue

Inflammatory Bowel Disease: Molecular Insights

Message from the Guest Editor

Inflammatory Bowel Disease is an elusive gastrointestinal inflammatory disease of chronicity, which in many cases diminishes the quality of life of sufferers. While the armamentarium of therapeutic pharmacologies is ever expanding, our understanding of the molecular underpinnings to this insidious disease lags behind. If we are to progress to curative therapies, we must first define the molecular signatures of IBD at the genetic, biochemical and immunobiological level. This will likely include the complex interaction of a multitude of cells, messenger substances and proteins within the gut environment, immune-related structures and systemic circulation. Recent advancements in genomic technologies, high-throughput imaging mass spectrometry and multiomic analysis have progressed our understanding of the interplay of endogenous and exogenous factors through newly discovered molecular actors, improved understanding of microbiome dysbiosis and spatial immunocompartmentalisation of the IBD-affected gut. This forms the aims of the Special Issue 'Inflammatory Bowel Disease: Molecular Insights'.

Guest Editor

Dr. Belal Chami

1. Discipline of Pathology, School of Medical Sciences, Faculty of Medicine and Health, The University of Sydney, Camperdown, Sydney, NSW 2006, Australia
2. Charles Perkins Centre, The University of Sydney, Camperdown, Sydney, NSW 2006, Australia

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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