

Special Issue

Gut Microbiota and Immunity 2.0

Message from the Guest Editor

The human gut hosts a wide and diverse ecosystem of microorganisms termed the microbiota or the novel name “holobiota”. The microbiota is involved in both health and disease, contributing to prevent illness by facilitating the metabolism, the immune system, cancer resistance, endocrine signaling and brain function. In this Special Issue, a particular emphasis will be given to the role of the microbiota–gut–brain axis, to deepen the knowledge of the mechanisms of gut microbiota–brain communication, including immune signaling and neural–enteroendocrine pathways. We will also review important advances in techniques associated with microbial research, such as DNA sequencing, metabolomics, and proteomics combined with computation-based bioinformatics. Finally, this Special Issue of IJMS will also focus on advances in therapeutic applications, for instance, the usefulness of microbial or chemobiotic applications as promising therapeutic choices to palliate immune-mediated diseases, neurodegenerative disorders, and other syndromes.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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