

Special Issue

Emerging Role of Microbiome in Pediatric Diseases

Message from the Guest Editors

The microbiome is, without a doubt, important to human health; however, there is still a large gap in our understanding of its role in well-being. Microbiome genes can encode functions and metabolic pathways participating in host biological processes including not only metabolism, but also nutrition and immunity. Various patients' responses have been linked to interindividual gut microbial composition differences, including cancer immune- and chemotherapies, or treatment of neurobehavioral and neurodevelopmental diseases. These findings suggest including microbiomes into personalized treatment decisions and a precision medicine framework. The scope of this Special Issue is to put together original research articles and reviews that pinpoint the identification of microbial biomarkers, microbiome-related molecules and microbial properties in pediatric diseases, highlighting their potential use in translational medicine and personalized treatment. Using omics approaches together with machine learning could help to reveal the hidden potential of microorganisms. We look forward to receiving your contributions.

Guest Editors

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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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