

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

Dr. Katarina Soltys

Department of Microbiology and Virology, Faculty of Natural Sciences, Comenius University in Bratislava, Bratislava, Slovakia

Dr. Ivan Mikula

The Concern Foundation Laboratories at The Lautenberg Center for Immunology and Cancer Research, Israel-Canada Medical Research Institute, Faculty of Medicine, The Hebrew University, Jerusalem, Israel

Deadline for manuscript submissions

closed (28 February 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/88317

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)