Special Issue

Roles and Functions of Micronutrients in Gut Microbiota and Intestinal Inflammation

Message from the Guest Editor

Dear colleagues. Micronutrients are essential nutrients required by organisms in small quantities throughout their lifespan to regulate many physiological activities necessary for growth, development, and overall health. Micronutrients can be found in a variety of foods. including fruits, vegetables, nuts, seeds, and dairy products; synthesised forms of micronutrients are also available in dietary supplements for individuals who may have difficulty in obtaining enough through their diet alone. The gut microbiota play an important role in maintaining the integrity of the intestinal barrier by regulating gut homeostasis. A compromised gut barrier can promote the leakage of detrimental substances like harmful bacteria and toxins into the bloodstream. thereby increasing the risk of intestinal inflammation. An increasing number of studies have demonstrated the benefits of micronutrients, including anti-inflammatory, antioxidant, and anticancer effects, while their interactions with the gut bacteria have not been fully elucidated.

Guest Editor

Dr. Chao Wang

Department of Food Science and Technology, Jinan University, Guangzhou 510632, China

Deadline for manuscript submissions

20 August 2025



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/182313

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





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





Message from the Editor-in-Chief

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.

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

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

