



## Role of Gut Microbiota in Disease Prevention

Guest Editors:

**Dr. Luka Bočkor**

Institute for Anthropological  
Research, Zagreb, Croatia

**Dr. Jurica Žučko**

Faculty of Food Technology and  
Biotechnology, University of  
Zagreb, Zagreb, Croatia

Deadline for manuscript  
submissions:

**31 July 2024**

### Message from the Guest Editors

Dear Colleagues,

We are witnessing massive improvements in disease treatment worldwide and yet are still challenged/faced with a high incidence of non-communicable diseases that are often preventable or whose later stages could be postponed by different interventions like lifestyle changes or pharmaceutical prophylaxis. Gut microbiota has been implicated in numerous processes within the human body helping to preserve a healthy homeostasis (such as colonization resistance, immune system modulation, and the metabolism of different essential compounds), but these mechanisms of action still need further research to turn associations with diseases to effective treatments using living microorganisms, which is a promising future tool in disease prevention.

This Special Issue aims to collect the latest findings on the mechanisms of gut microbiota disease prevention considering both exposomes and intrinsic factors in a holistic approach that may help us advance our science and understanding of this complex subject.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Felipe Fregni

1. Neuromodulation Center and  
Center for Clinical Research  
Learning, Spaulding  
Rehabilitation Hospital and  
Massachusetts General Hospital,  
Harvard Medical School, Boston,  
MA 02114, USA  
2. Department of Epidemiology,  
Harvard T.H. Chan School of  
Public Health, Boston, MA 02115,  
USA

## Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

## 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](#), [CAPUS / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine (miscellaneous)*)

## Contact Us

*Biomedicines* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/biomedicines](http://mdpi.com/journal/biomedicines)  
[biomedicines@mdpi.com](mailto:biomedicines@mdpi.com)  
[X@Biomed\\_MDPI](#)