



Gut Microbiota and Regulation of Metabolism

Guest Editors:

Dr. Xiaoyue Wu

Signal Transduction Laboratory,
National Institute of
Environmental Health Sciences,
Research Triangle Park, NC
27709, USA

Dr. Zhan Zhang

Department of Hygiene Analysis
and Detection, School of Public
Health, Nanjing Medical
University, 101 Longmian Avenue,
Nanjing 211166, China

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

The Special Issue aims to explore the intricate relationship between the gut microbiota and metabolic processes, shedding light on the profound implications for human health and disease. Recent research has unveiled the pivotal role played by the gut microbiome in modulating host metabolism, influencing nutrient absorption, energy homeostasis, immune response and even contributing to the development of metabolic disorders.

This Special Issue invites authors to contribute original research articles and reviews that delve into the molecular mechanisms underpinning the crosstalk between gut microbes and host metabolism. Topics of interest include microbial metabolites, host–microbiota interactions and the impact on diseases such as inflammatory bowel disease, colon cancer, and non-alcoholic fatty liver disease. Additionally, we encourage submissions that explore therapeutic interventions targeting the gut microbiota to regulate metabolism.





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*, *CAPlus / SciFinder*, and other databases.

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

Contact Us

Biomedicines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
X@Biomed_MDPI