

Special Issue

Gut Microbiome Manipulation: Focus on Microbiome Characterization, Diagnostics and Therapeutic Indications

Message from the Guest Editor

Over the past two decades, advances in omics technology have allowed comprehensive characterizations of the gut microbiome in many health disorders. Perturbation of host–microbiome crosstalk has been associated with different health disorders, including irritable bowel syndrome, inflammatory bowel diseases, diabetes, *Clostridium difficile* infection and mental health disorders. Therefore, the focus of interest of the current wave of microbiome research is to investigate how to manipulate the gut microbiome consortium to promote human health. Manipulation of the gut microbiome can be achieved through restoring microbiota diversity and composition or by inducing certain functional activities. The purpose of this Special Issue is to create a collection of scientific reports that help us to understand the microbiome’s therapeutic potential in different disorders. We invite original articles and extensive reviews in the areas of microbiome characterization, biomarker identification and microbiome-based therapeutic manipulations. Any type of article on host–microbiome crosstalk is welcome.

Guest Editor

Dr. Walid Mottawea

School of Nutrition Sciences, Faculty of Health Sciences, University of Ottawa, Ottawa, ON K1N 6N5, Canada

Deadline for manuscript submissions

closed (31 December 2021)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/48909

Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biology@mdpi.com

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





Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).