Special Issue

The Role of the Gut Microbiota in Human Health and Disease

Message from the Guest Editor

The human gastrointestinal tract is inhabited by a complex ecosystem of microorganisms that have been shown to play an important role in shaping human health. These microbes produce metabolically active compounds, some of which exert their effects throughout the body; hence, there is a growing understanding of the impact of the gut microbiota on the system as well as gut health. Analytical approaches to study the gut microbiota have provided us with novel insights, particularly at a holistic level. However, there is still much to learn regarding the composition and functional capacity of microbial communities in different human health and diseased states, and how these may be targeted for therapeutic benefit. This Special Issue is focused on the latest advances in the role of gut microbiota in human health and disease. We invite researchers to submit new research and review articles focused on basic and translational research studies that further our understanding of gut microbial composition and function, host–gut microbiota interactions, and how human health outcomes may be improved through therapeutic modulation of the gut microbiota.

Guest Editor

Dr. Anisha Wijeyesekera
Department of Food & Nutritional Sciences, School of Chemistry, Food & Pharmacy, University of Reading, Reading, UK

Deadline for manuscript submissions

closed (31 October 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/92163

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

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

MDPI