

Special Issue

The Interplay between Microbiota and Human Complex Traits

Message from the Guest Editors

The human microbiota is a complex community of microorganisms that reside in and on the human body. It plays a vital role in the maintenance of human health and is essential for various physiological processes. However, dysbiosis, defined as an imbalance in the microbiota, has been associated with a range of complex diseases, including metabolic, autoimmune, and neurodegenerative diseases. We encourage the exploration of the relationship between microbiota and complex human traits and/or diseases, therapeutic and preventive measures to contrast the progression of disease, as well as the investigation of novel methods to elucidate this relationship. We welcome original research manuscripts, reviews, short communications, and case reports focusing on the association of microbiota (fungi, bacteria, viruses, metabolites, etc.) with the pathophysiology, biomarkers, and therapeutic strategies of complex human traits.

- microbiota
- dysbiosis
- human complex traits
- 16S rRNA gene sequencing
- shotgun metagenomics
- long- and short-read sequencing
- host-pathogen interaction
- metabolic pathways
- microbial identification

Guest Editors

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Deadline for manuscript submissions



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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.

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Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 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).