

Special Issue

Gut Microbes and Probiotics

Message from the Guest Editors

This Special Issue aims to collect high-quality original research articles and reviews exploring the impact of probiotics on gut health. Topics of interest include the development of probiotic strains, the mechanisms by which probiotics maintain intestinal health, and the effects of their metabolites—such as short-chain fatty acids, indole derivatives, cell wall components, and exopolysaccharides—on gut health. We also welcome studies focusing on the protection, stabilization, and targeted delivery of probiotics, including microencapsulation, biomaterial-based carriers, controlled release formulations, and single-cell surface modifications, which are critical for maintaining probiotic viability and functionality during gastrointestinal transit. Submissions employing in vitro models, in vivo experiments, clinical trials, or multi-omics approaches are encouraged. This Special Issue provides a timely platform for advancing the scientific understanding of gut microbiota and probiotics, as well as their translational potential in nutrition and health.

Guest Editors

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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.

Editor-in-Chief

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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).