

Special Issue

Probiotics: Identification and Applications

Message from the Guest Editors

Research on probiotics has grown significantly worldwide. Initially focused on gastrointestinal issues, advances in metagenomics have broadened our understanding of their roles across various niches, including the gut, skin, and vaginal microbiomes. Probiotic research has also expanded into oncology, where specific strains show promise in immune modulation and support during cancer therapies. Emerging areas include the development of postbiotics—bioactive metabolites produced by probiotics—and synbiotics, which combine probiotics and prebiotics to enhance their functionality. Fermented foods continue to gain attention as natural sources of probiotics and postbiotics, contributing to microbiome diversity and overall health. This Special Issue invites reviews, perspectives, and original research articles on new probiotic strains from human and unconventional sources.

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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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