

Special Issue

Genomics of Microorganisms from Traditional Fermented Products

Message from the Guest Editors

This special issue explores the fascinating intersection of microbial genomics and the unique characteristics of traditional fermented foods. We aim to uncover how microbial genetic blueprints shape these products, identifying novel metabolic pathways and functional genes contributing to preservation, flavor development, and potential health benefits. We also seek to understand how genomic insights can optimize traditional fermentation processes, leading to new food products or biotechnological applications, and examine the ecological interactions and evolutionary adaptations of microbial communities within these complex food matrices.

The guest editors welcome diverse genomic studies on microorganisms from traditional fermented products. This includes original research on whole-genome sequencing, comparative genomics of novel strains, metagenomic analyses of microbial communities, and the identification of genes related to flavor production, antimicrobial synthesis, or probiotic activity. We also encourage submissions exploring the application of genomic data for optimizing fermentation, enhancing food safety, or developing new biotechnological tools and medical applications.

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.

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