

# Special Issue

## Lactic Acid Bacteria in Food Fermentation and Biotechnology

### Message from the Guest Editor

The aim of this Special Issue is to create a collection of articles that improve our understanding, update current knowledge, and identify research gaps regarding the use of lactic acid bacteria in food fermentation and biotechnology. Research areas may include (but not limited to) the following:

- Starter Cultures and Fermentation Processes: Advances in the selection, optimization, and application of lactic acid bacteria as starter cultures in various food fermentation processes;
- Metabolic Diversity and Pathways: Exploration of the metabolic diversity and pathways of lactic acid bacteria;
- Biotechnological Applications: Innovative biotechnological applications of lactic acid bacteria;
- Health Benefits and Functional Properties: Research on the health-promoting properties and functional benefits of lactic acid bacteria, including their role in gut health, immunity, and disease prevention;
- Genomics, Proteomics, Metabolomics, and Systems Biology: Insights from genomics, proteomics, metabolomics, and systems biology approaches to unravel the genetic, molecular, and physiological mechanisms underlying the functional properties of lactic acid bacteria.

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### Guest Editor

Dr. Spiros Paramithiotis

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### Deadline for manuscript submissions

closed (15 November 2025)



**Microorganisms**

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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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### Editor-in-Chief

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#### 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).