

## Special Issue

# The Role of Lactic Acid Bacteria and Their Metabolites in Fermented Foods: From Mechanisms of Action to Technological Applications and Human Health Effects

### Message from the Guest Editor

This Special Issue delves into the fascinating world of lactic acid bacteria (LAB) and their crucial role in the fermentation of diverse food products. Focus on the following Metabolites and Specific Effects: **Lactic Acid Organic Acids**

**Bacteriocins**

**Exopolysaccharides**

**Aroma Compounds**

**Enzymes**

**Vitamins and Bioactive Peptides** We encourage submissions that explore the potential health benefits associated with LAB and their metabolites in fermented foods. Examples include the following aspects: **1.**

**Improved gut health**

**2. Enhanced nutrient bioavailability**

**3. Anti-inflammatory and immune-modulatory effects**

This Special Issue aims to provide a comprehensive overview of the multifaceted roles LAB and their metabolites play in fermented foods. By focusing on specific examples and potential health effects, we encourage submissions that contribute significantly to our understanding of this crucial area of food microbiology.

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### Guest Editor

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### Deadline for manuscript submissions

30 November 2025



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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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