Special Issue

Studies on Lactic Acid Bacteria: Metabolism, Genomics and Applications

Message from the Guest Editor

Whole-genome sequencing has revolutionized and accelerated scientific research that aims to study the genetics, biochemistry, and molecular biology of lactic acid bacteria (LAB). Their genome content reflects its specific metabolism, physiology, biosynthetic capabilities, and adaptability to varying conditions and environments. LAB are widely used for the production of a variety of foods and feed raw materials where they contribute to flavor and texture of the fermented products. LAB are also found among the resident microbiota of the gastrointestinal and/or genitourinary tracts of vertebrates, where they are believed to exert health-promoting effects as probiotics. The aim of this Special Issue of *Microorganisms* is to present a collection of articles that provide a current snapshot of research in the LAB field. Manuscripts covering all aspects of research relating to LAB are welcome, including studies on metabolism, genomics, and applications of LAB.

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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