

Special Issue

Innovative Perspectives on Food Microbiology and Biotechnology

Message from the Guest Editors

This Special Issue aims to collect the latest research and advanced applications of microbiology and biotechnology in food science, spanning critical areas such as spoilage, spontaneous or starter-driven fermentation, enzyme and protein engineering, food safety and pathogen control, bioactive compounds and functional foods. Focusing on mechanistic insights and innovative methodologies, this issue highlights the integration of cutting-edge omics approaches, synthetic biology, and bioinformatics to enhance microbial functionality and the biosynthesis of bioactive compounds.

Researchers and practitioners are invited to submit original research articles, reviews, and communications that explore these topics in depth. We are particularly interested in research on microbial metabolites and unexplored fermented products produced at a small and/or large scale. Contributions that provide novel experimental data, in vitro screening, methodological developments, or comprehensive analyses aimed at advancing understanding and application of microbiological and biotechnological tools in modern food systems are particularly encouraged.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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