Special Issue

Microbial Safety and Beneficial Microorganisms in Foods

Message from the Guest Editor

The role of microorganisms in food has been acknowledged since antiquity. However, the modern era has witnessed a significant advancement in our comprehension of the intricate ways microorganisms can exert detrimental and beneficial effects on the food system. Pathogenic microorganisms, such as *Salmonella* and *Escherichia coli*, can potentially cause severe foodborne illnesses. Conversely, beneficial microbes have been shown to enhance food stability, safety, and nutritional value. Recent research has focused on elucidating the complex interactions between foodborne pathogens and their environments, thereby facilitating the development of enhanced detection and control methodologies. Furthermore, there is a growing interest in utilizing beneficial microorganisms in food production, particularly in fermented foods and biopreservation. Applying genomics and molecular tracing networks has significantly enhanced our capacity to track and control microbial hazards in food. This Special Issue provides a platform for researchers to advance our knowledge of microbial safety and the beneficial use of microorganisms in food.

Guest Editor

Prof. Dr. Theodoros Varzakas

Department of Food Science and Technology, University of Peloponnese, 24100 Antikalamos, Greece

Deadline for manuscript submissions

31 December 2025

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/218417

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

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.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

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).

MDPI