Special Issue

Applications of Microorganisms in Food Industry

Message from the Guest Editors

Recent advances in microbial biotechnology can help further increase the use of microorganisms in the food industry. For example, CRISPR/Cas9 technology allows the genetic engineering of microorganisms to be safe in food applications by eliminating the use of antibiotics resistance marker genes. Many recombinant strains have been used for the industrial production of food ingredients, enzymes, flavors, and bioactive compounds. In addition, next-generation sequencing improves our understanding of gut microbiome and human health. Thus, probiotic microorganisms have been widely developed as food supplements. Microorganisms have also been applied for future food production such as plant-based meat and alternatives for milk and egg. In this Special Issue, we are focusing on the beneficial roles of microorganisms and collecting the articles that demonstrate the applications of microorganisms for the food industry. Manuscripts covering all aspects of research related to microorganisms in food are welcome, including work from fundamental research to industrial application.

Guest Editors

Dr. Seung-Oh Seo
Department of Food Science and Nutrition, The Catholic University of Korea, Bucheon, Republic of Korea

Dr. Young-Wook Chin
Korea Food Research Institute, Wanju gun, Republic of Korea

Deadline for manuscript submissions

closed (31 August 2021)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/70864

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