Special Issue

Probiotics, Prebiotics and Functional Foods: Health Benefits and Biosafety, 2nd Edition

Message from the Guest Editor

Probiotics play a vital role in improving the quality of the gut microbiota. Clinical studies have revealed the various health benefits of the consumption of probiotics (e.g., reduction in the duration and occurrence of diarrhea, alleviation of symptoms of lactose intolerance, reduction in the incidence of pathogenic infection, stimulation of the immune system, and regulation of the inflammatory response). The selection of potential probiotic strains that possess the physiological capacity of performing well in the gastrointestinal tract (GIT) is a critical challenge. Probiotic microorganisms must tolerate the deleterious effects of various stresses to survive passage and function in the human GIT and adhere to the intestinal mucosa. This Special Issue focuses on the characterization of new and novel potential probiotics, the health benefits of functional foods produced by probiotic microorganisms (after in vitro digestion), the identification of bioactive compounds in functional products, the interactions between probiotics and prebiotics in functional products, the capabilities of probiotics in food safety as biopreservatives, and eliminating risk compounds from food products.

Guest Editor

Dr. Mutamed Ayyash

Department of Food Science, College of Agriculture and Veterinary Medicine, United Arab Emirates University (UAEU), Al Ain P.O. Box 15551, United Arab Emirates

Deadline for manuscript submissions

closed (30 June 2024)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/179847

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