Special Issue

New Advances in Functional Ingredients' Development to Improve Physiological and Functional Properties of Probiotics

Message from the Guest Editors

This Special Issue focuses on recent advances in innovative extraction, isolation, and encapsulation techniques for functional ingredients' development with pre- and probiotic effects. Different kinds of bioactive compounds and microorganisms commonly found in foods are capable of exerting pre- and probiotic effects in the body after their ingestion. However, in order to exert their positive effects on the gut microbiota, they must be able to reach their specific site of action. It is noteworthy that both compounds and probiotics should not only be released from the food matrix in significant amounts but also be stable during the digestive process. In this sense, to achieve this goal, the protection and incorporation of these substances into food matrices allowed their transport along the digestive tract until they are released and exert their action. Reviews and research articles including advanced technologies for incorporating bioactive compounds with pre- and probiotic properties into food matrices, stability studies, in vivo and in vitro evaluation and their effects on the microbiota will be considered essential for this Special Issue.

Guest Editors

Dr. Ascensión Rueda-Robles

Prof. Dr. Cristiano Menezes

Prof. Dr. Jesús Lozano-Sánchez

Deadline for manuscript submissions

closed (31 May 2024)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/144650

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