Special Issue

Gut Microbiome and Aging 2.0

Message from the Guest Editor

Aging is a natural and multifactorial process for all living organisms, involving a decline in physiological functions of the host. The aging process affects the gut microbiome in particular as it is accompanied by changes in gastrointestinal (GI) physiology, predisposing a myriad of GI and metabolic disorders. The development of next-generation sequencing and metagenomics has provided insight into the function of the aging microbiome. However, research on aging and the microbiome in general has many unresolved questions regarding whether any generalizable changes can be observed in normal/healthy ageing. The objective of this Special Issue is to provide a common platform for researchers and clinicians working on human and animal research to exchange updated information. This Special Issue will consider reviews and research manuscripts ranging from laboratory to animal and human studies. Keywords: aging; gut microbiome; virome; mycobiome; archaeome; deits; probiotics/synbiotics; fecal microbial transplants; fecal viral transplants; genome-scale metabolic modeling; immune system

Guest Editor

Dr. Ravichandra Vemuri

Wake Forest School for Medicine, Comparative Medicine, Wake Forest Baptist Medical Center, Winston-Salem, NC 27101, USA

Deadline for manuscript submissions

closed (30 August 2023)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/161829

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