

Special Issue

Human Microbiome and Microbial Ecology of Oral Diseases

Message from the Guest Editors

This Special Issue invites original research, review articles, and perspectives that address recent advancements in understanding the oral microbiome, its role in health and disease, and therapeutic innovations.

Topics of interest include, but are not limited to, the following:

- The composition and dynamics of oral biofilms in health and dysbiosis.
- The role of oral microbiota in periodontal, peri-implant, carious, and endodontic infections.
- Host-microbiota interactions and immune responses in oral disease progression.
- Development of novel antimicrobial therapies and diagnostic tools.
- Strategies utilizing probiotics, postbiotics, nanotechnology, and controlled-release systems for managing pathogenic species and restoring microbial balance.
- Insights into microbial communication and interspecies interactions within biofilms.

Through this Special Issue, we aim at spotlighting cutting-edge research and fostering a deeper understanding of the mechanisms driving oral health and disease.

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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/225418

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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.

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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).