

Special Issue

Oral Microbiomes and Host Health

Message from the Guest Editor

The oral microbiome plays a pivotal role in maintaining health and mediating disease beyond the oral cavity. This complex and dynamic microbial community influences local conditions such as dental caries, periodontitis, and oral mucosal disorders, while also contributing to systemic diseases. Recent advances in high-throughput sequencing and multi-omics are revealing intricate host–microbe and microbe–microbe interactions, uncovering mechanisms of immune modulation, microbial dysbiosis, and inflammatory signaling. This Special Issue invites original research and reviews that explore the composition, function, and clinical implications of the oral microbiome in host diseases. Topics of interest include microbial biomarkers for early disease detection, the impact of oral dysbiosis on systemic health, host genetic and immune factors shaping the oral microbiota, and novel microbiome-targeted therapies. We welcome interdisciplinary contributions that bridge microbiology, immunology, clinical sciences, and bioinformatics to advance our understanding of the oral microbiome's role in health and disease.

Guest Editor

Dr. Lucinda J. Bessa

Egas Moniz Center for Interdisciplinary Research (CiiEM), Egas Moniz School of Health & Science, Caparica, 2829-511 Almada, Portugal

Deadline for manuscript submissions

31 January 2026



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/247880

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

[mdpi.com/journal/
microorganisms](https://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](https://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, CAPus / 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).