

# 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

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### Deadline for manuscript submissions

30 September 2026



## Microorganisms

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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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### Editor-in-Chief

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