

Special Issue

Advances in the Human Oral Microbiome: From Ecology to Precision Therapeutics

Message from the Guest Editor

The oral cavity harbors one of the most taxonomically diverse microbial communities in the human body, influencing local health, systemic disease, and even therapeutic outcomes. Recent multi-omics profiling, high-resolution imaging, and mechanistic studies have revealed previously unrecognized pathways by which bacterial, fungal, and viral consortia modulate host immunity, metabolite production, and inter-microbial signaling. Concurrently, precision interventions—ranging from targeted antimicrobials and probiotics to biomaterial-based delivery systems—are emerging to reshape dysbiotic oral niches without collateral damage to commensals.

This Special Issue of *Microorganisms* invites original research articles, short communications, and state-of-the-art reviews that deepen our understanding of the oral microbiome's structure, function, and translation to clinical practice.

Guest Editor

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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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