

Special Issue

Oral Health: Microbial Dynamics and Antibiotic Stewardship

Message from the Guest Editor

The interplay of bacterial, viral, and fungal commensals and pathogens in the oral cavity, along with their genetic, biochemical, and ecological traits, is key to understanding oral health and disease. This Special Issue explores oral microbial dynamics in physiology, pathophysiology, and disease, with emphasis on dental caries, periodontal disease, oral infections, and links to systemic conditions such as cancer and dementia. A central aim is to highlight evidence-based practices in infection control and antibiotic stewardship in dentistry. Given the rise in antimicrobial resistance (AMR), it is crucial to balance effective infection management with the responsible use of antibiotics to improve patient outcomes in both dental and broader healthcare. We welcome original research, case studies, reviews, and clinical guidelines on oral microbial ecology, infection control, diagnostic tools, and AMR management. Topics of interest include molecular mechanisms of pathogenesis, therapeutic impacts on oral microbiota, and strategies for antimicrobial stewardship using targeted, evidence-based approaches.

Guest Editor

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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