

Special Issue

Biomarkers and Diagnostic Advances in Oral Pathogen Detection: Exploring Microbial Diversity and Clinical Applications

Message from the Guest Editor

Oral diseases are often driven by a complex interplay of diverse microbial communities, including bacteria, viruses, and fungi, yet recent advances in biomarker discovery and diagnostic technologies have revolutionized our ability to detect and characterize oral pathogens with high sensitivity and specificity. This Special Issue focuses, therefore, on the latest developments in biomarkers and diagnostic methods for detecting oral pathogens, emphasizing the importance of microbial diversity in disease progression and treatment response. By integrating molecular, immunological, and imaging approaches, researchers can gain a deeper understanding of pathogen–host interactions, enabling earlier diagnosis and the development of personalized therapeutic strategies. Consequently, this collection aims to foster multidisciplinary collaboration, ultimately improving oral health outcomes through enhanced detection and management of pathogens. Contributions that explore novel biomarkers, high-throughput technologies, and the clinical translation of diagnostic innovations are highly encouraged.

Guest Editor

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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