

## Special Issue

# The Impact of Biomolecules on the Pathogenesis of Oral and Periodontal Diseases

### Message from the Guest Editor

Biomolecules play a pivotal role in the pathogenesis of oral and periodontal diseases, defining not only the origin but also the progression of diseases. This Special Issue aims to emphasize intricate interactions among environmental factors, microbial components, and host-derived biomolecules that result in oral conditions such as gingivitis, periodontitis, and other periodontal disease conditions. Current research has highlighted the involvement of inflammatory mediators, enzymes, cytokines, and signaling molecules in tissue injury, immune responses, and dysbiosis within the oral cavity. Understanding such biomolecular processes is critical for the discovery of new biomarkers facilitating early diagnosis and treatment. By focusing on the molecular processes of disease pathogenesis, this Special Issue aims to provide insights into how genetic, epigenetic, and microbiome-related factors interact to impact oral health. Researchers are invited to explore new methods in understanding biomolecular interactions that sustain disease processes and their implications on treatment modalities in periodontal therapy.

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### Guest Editor

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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