

Special Issue

Host–Oral Bacterial Interaction in Periodontal Pathogenesis

Message from the Guest Editor

The pathogenesis of periodontal disease results from a complex interplay between pathogenic oral bacteria and the host immune-inflammatory response. This Special Issue aims to explore the dynamic interactions between microbial communities within the oral biofilm and host factors that contribute to periodontal tissue destruction, dysbiosis, and disease progression. Emphasis will be placed on recent advances in microbiome research, innate and adaptive immune mechanisms, and molecular pathways involved in the host response. Contributions addressing diagnostic biomarkers, novel therapeutic strategies, and the influence of systemic health on periodontal pathogenesis are particularly welcome. By integrating multidisciplinary perspectives, this Special Issue seeks to advance our understanding of the etiopathogenic mechanisms driving periodontitis and support the development of targeted, personalized interventions.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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