

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.

Guest Editor

Dr. Ujjal Kumar Bhawal

Research Institute of Oral Science, Nihon University School of Dentistry
at Matsudo, Chiba 271-8587, Japan

Deadline for manuscript submissions

20 February 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/232268

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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