

Special Issue

Oral Health: Diagnosis, Treatment and Materials

Message from the Guest Editors

The purpose of this Special Issue is to answer the following questions:

Can we achieve the early diagnosis of destructive inflammatory diseases of the oral cavity by investigating the signaling and augmentation processes of matrix metalloproteinases? What impact do they have on overall health? How do these processes interact with tissue integration of matrix systems grafted with autologous stem cells? Can scaffolds carry substances that inhibit the activity of matrix metalloproteinases?

Can AGEs (Advanced Glycation End Products) be early markers of meta-inflammation in the oral cavity? What impact do they have on overall health? Can we use biosensors for detection of salivary AGEs? How can we block AGEs activity? What materials can be biofunctionalized with inhibitory compounds?

How can we biofunctionalize living grafts for personalized and predictable medicine? Are matrix systems good hosts for cells? Under what conditions and how can we manipulate the cell niche?

Any research articles or review papers that address to issues above are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)



Journal of Functional Biomaterials

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/143511

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About the Journal

Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials (JFB)* is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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