Special Issue

Biomaterials in Conservative Dentistry and Prosthodontics (2nd Edition)

Message from the Guest Editor

In recent decades, the restorative approach in dentistry has steadily evolved, progressing from mechanical retention to advanced adhesion. Moreover, there is a strong trend in materials science to develop and apply biomaterials that can interact with the tooth tissues and the oral environment. In addition, smart materials have been introduced to the dental industry, which can be defined as materials that have one or more properties that can significantly change in a controlled fashion due to the effects of external stimuli. It is beyond doubt that biomaterials science in dentistry promotes the merits of conservative dentistry, which intends to ensure the longevity of the natural dentition. Behind the concept of bioactive materials lays the education of dental clinicians in modern caries detection and removal, as well as in conservative restorations of tooth structure that reflect on the higher resistance to wear.

This Special Issue calls for recent studies that are poised to guide investigations on the development of novel biomaterials and techniques for conservative dentistry and prosthodontics and to understand their mechanisms and clinical perspectives.

Guest Editor

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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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