Special Issue

Innovative Biomaterial Solutions for Translational Tissue Engineering and Regenerative Medicine

Message from the Guest Editor

Innovative tissue engineering and regenerative medicine solutions that incorporate nanobiotechnology, advanced biomaterials, computer assistance, three-dimensional printing, and robotic systems offer extensive potential for augmenting and improving the functional and esthetic cranio-maxillo-facial and oro-dental health profile of patients. This Special Issue is dedicated to the state-of-the-art in oro-dental and cranio-maxillo-facial tissue engineering (restoration, replacement, reconstruction, regeneration and repair)-related topics and emphasizes the bionanotechnology-, functional biomaterial-, and three-dimensional-related topics for innovative alternative solution design, characterization, evaluation and optimization. Hence, the focus is on demonstrating physico-chemico-mechanical/rheological, cellular, histomorphometrical and immunohistochemical parameters and safety (cyto-/bio-compatibility) and efficacy (pre-clinical and clinical) characteristics of functional biomaterials for tissue engineering and regenerative medicine.

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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