Special Issue

Bone Tissue Engineering: Material Design and Applications

Message from the Guest Editors

Functional biomaterials have been widely used in the tissue engineering research field. Different material design strategies will be used to meet specific medical application areas. To be considered for use in medical applications, biomaterials must be examined not only in terms of their physical or chemical properties but also in terms of their biocompatibility. For bone tissue engineering, a successful material design requires an understanding of the structure and composition of bone tissue to design suitable biomaterial with several properties to promote tissue healing. This Special Issue will collect papers related to recent developments in biomaterial design for bone tissue engineering applications. Topics will include but not be limited to natural materials, biomimetic natural materials, and synthetic materials. Contributions on material design and biomedical application for bone tissue repair and regeneration are welcome.

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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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