Special Issue

Innovative Biomaterials for Tissue Engineering: Regeneration of Soft and Hard Tissues—Volume II

Message from the Guest Editors

Tissue engineering aims to regenerate human tissues and organs (e.g., bone, cartilage, skin, and liver), bridging structure with function as a paramount challenge. Due to its cross-domain nature, tissue engineering (TE) gathers scientists, engineers, and physicians in multidisciplinary teams using a variety of methods to construct biological substitutes. Most human native tissues are made of complex three-dimensional (3D) structures, presenting different shapes, architectures, and extracellular matrix compositions. Several efforts have been made, by research groups spread worldwide, to develop constructs that can mimic the complexity of native tissues; however, the achievement of 3D complex organ structures is far from being tangible. Furthermore, these tissues, which are not static, have unique functions suited to dynamic changes in tissue conformations. For this Special Issue, we will include original articles presenting the latest developments in biomaterials and TE strategies for the development of biologically functional products with structural organization. In addition, updated review manuscripts able to stimulate creative thinking will be highlighted.

Guest Editors

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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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