Special Issue

Recent Advances in Tissue Regeneration and Biomaterials Manufacturing

Message from the Guest Editors

Tissue reparation and regeneration is the repairing and restoring of tissue defects by using combinations of biomaterials, biomolecules, and cells. This Special Issue will present some new necessary features associated with biomaterial types and design requirements for tissue regeneration applications, and new trends for future implementations as well. Tissue reparation and regeneration mainly depends on biomaterials and scaffold fabrication methods. Therefore, there have been progressive investigations and development of new biomaterials with different formulations to help and achieve necessary requirements for restoring human body functions. However, temporal and spatial control of therapeutics delivery and advanced diagnostic technology will guide tissue growth and necessary clinic intervention. This Special Issue is dedicated to understanding the biological principles and manufacturing advances, synchronize the physicochemical properties of biomaterials, and explore their applications for tissue regeneration as well as the development of biomaterials for advanced diagnostic technology.

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

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