Special Issue

Biomaterials and Strategies for Bone Regeneration and Repair

Message from the Guest Editors

Bone regeneration and repair remain major challenges and unmet needs in contemporary medicine due to the high incidence of bone defects caused by trauma, tumors, degenerative diseases, and congenital disorders. Although bone tissue possesses remarkable regenerative capacity, it is often insufficient for healing large segmental defects or in conditions with a compromised biological environment. Consequently, extensive efforts are being directed toward the development of advanced biomaterials and innovative strategies to enhance bone regeneration and repair. This Special Issue, "Biomaterials and Strategies for Bone Regeneration and Repair," seeks to present a comprehensive overview of recent advances and emerging approaches in bone regenerative medicine and tissue engineering. Particular emphasis is placed on the development, as well as the preclinical and clinical evaluation, of innovative biomaterials and strategies that hold significant potential to advance the field of bone regeneration.

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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