Special Issue

Bioactive Surface Materials for Bone Regeneration and Implant Integration

Message from the Guest Editors

This Special Issue, Bioactive Surface Materials for Bone Regeneration and Implant Integration, will focus on advanced surface-engineering strategies designed to improve the biological performance of orthopedic and dental biomaterials. Its scope includes bioactive coatings, surface functionalization, nano-topography, ion-releasing layers, antimicrobial modifications and hybrid or multifunctional interfaces that promote osteogenesis, accelerate bone healing and enhance long-term implant stability.

By bringing together interdisciplinary contributions from materials science, bioengineering, nanotechnology and regenerative medicine, the issue will help clarify current trends, identify unresolved challenges and define future directions in the design of bioactive surfaces for improved bone regeneration and implant integration.

Guest Editors

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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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