

## Special Issue

# The Application of Scaffolds in Bone Tissue Engineering

### Message from the Guest Editors

Bone tissue engineering is a crucial when the self-regenerative nature of bone is insufficient to overcome severe tissue defects. Approaches to bone tissue regeneration usually involve the application of biomaterials, cells and growth factors to produce augmentative bone scaffolds. Detailed research is crucial in the development of three-dimensional scaffolds with novel compositions, targeted functions, appropriate mechanical properties and adequate interactions with cells.

This Special Issue, entitled “The Application of Scaffolds in Bone Tissue Engineering”, aims to highlight recent advances in the development of scaffolds for bone regeneration. The preparation, physiochemical characterization and biological response of diverse biomaterials will be addressed, including the modification of the metals and ceramics traditionally employed in medical devices, as well as biopolymers, bioglasses, bioceramics and their composites. We hope that this Special Issue will contribute to further advancements in this interdisciplinary field spanning materials, biological and medical sciences, and engineering disciplines.

### Guest Editors

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### Deadline for manuscript submissions

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## Journal of Functional Biomaterials

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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.

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### Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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