

Special Issue

Multifunctional Bioscaffolds for Biomedical Applications

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- The standardization of advanced strategies for multifunctional bioscaffold production;
- The development of 3D-printed bioscaffolds with controlled geometry and biomimetic structures;
- The in vitro characterization of scaffold morphology and ultrastructure, also in comparison with the native anatomy of the tissue to be replaced;
- The biomechanical response of scaffolds under loading conditions that simulate in vivo mechanical stimuli (e.g., tensile or compressive strain, multi-axial loading, friction, and wear behavior);
- The investigation of scaffold cytotoxicity and cell-scaffold interactions;
- The development of bioreactors for the mechanical stimulation of scaffolds during cell culture;
- The in vivo assessment of scaffold biocompatibility and therapeutic potential by using animal models of organ/tissue damage;
- The application of multifunctional biomaterials in a clinical setting.

We look forward to receiving your contributions.

Guest Editors

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Message from the Editor-in-Chief

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