

## 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, multiaxial 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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### Deadline for manuscript submissions

closed (30 November 2024)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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