

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

Dr. Silvia Barbon

Section of Human Anatomy, Department of Neuroscience, University of Padova, 35121 Padova, Italy

Dr. Silvia Todros

Department of Industrial Engineering, Centre for Mechanics of Biological Materials, University of Padova, Via Venezia 1, 35131 Padova, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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