

Special Issue

Biomimetic Materials in Tissue Engineering

Message from the Guest Editors

The fabrication of effective tissue-like scaffolds for tissue engineering purposes is an intriguing challenge in material science. Biomimetic materials are expected to reproduce extracellular matrix (ECM) characteristics, assuring highly complex engineered 3D structures that instead of replacing a mere function can trigger the regeneration of a functional tissue. It follows that the development of bioactive tissue substitutes inspired by anatomy is an ambitious goal.

The Special Issue focuses on some of the main features related to the development of bioinspired and biomimetic materials, including: materials bioactivation strategies, new processing technologies for tissue biomimicry, the identification and description of strategies to promote cell/material interactions, the development of materials supporting delivery strategies (bioactive cues, cells), and preclinical comparative studies evaluating materials' effectiveness in tissue regeneration based on biomolecular recognition.

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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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