



Biomimetic Materials in Tissue Engineering

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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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Message from the Editor-in-Chief

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