Special Issue

Biofunctionalized Scaffold in Regenerative Medicine-Series II

Message from the Guest Editors

The use of a biofunctionalized scaffold with cells and/or soluble factors has emerged as a promising approach in the field of regenerative medicine. A biomaterial refers to a matrix that provides a specific environment and supports growth and development. An ideal scaffold must be biocompatible and nontoxic, and should improve cell viability, cell adhesion, and proliferation. Better evaluating the tissue regeneration in scaffold/stem cell models, determining if the emerging imaging technologies fulfill all of the requirements for stem cell therapy research at present, and realizing their improvement and the development of multimodal molecular imaging systems will effectively promote the understanding of stem cell therapy biology and its mechanisms. The aim of this Special Issue is to provide an overview of ongoing scientific research to better understand the molecular mechanisms involved in tissue regeneration and the evaluation of the aptitude of biofunctionalized scaffolds for future clinical applications.

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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