Special Issue

Naturally Derived Biomaterials for Regenerative Medicine Applications (2nd Edition)

Message from the Guest Editors

Biomaterials for regenerative medicine applications are produced using natural polymers, biocompatible synthetic materials, or their composites; however, it has been observed that naturally derived biomaterials have superior properties to synthetic ones, since they are characterized by certain key features such as nontoxicity, biodegradability, low immunogenicity, osteoconductivity, or similarity to glycosaminoglycans of the extracellular matrix (ECM). Thus, naturally derived biomaterials have been reported to provide the best healing process for injured tissues.

Special focus will be given (but is not restricted) to the following topics:

Natural biomaterials for skin regeneration (wound dressings, artificial skin grafts);
Naturally derived cartilage and bone scaffolds;
Naturally derived drug delivery systems for tissue regeneration;
Tissue engineering;
Engineering of biomaterials;
Electrospun natural biomaterials;
3D-printed natural biomaterials;
Characterization of natural biomaterials.

All papers (reviews and original research articles) dealing with acceleration of the regeneration process by applying naturally derived biomaterials are welcome.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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