Special Issue

Novel Grafts and Biomaterials in Bone Tissue Engineering

Message from the Guest Editor

The treatment of bone defects is of major interest in the biomedical field, as bone is the second most commonly transplanted tissue after blood, with over 2.2 million bone grafting procedures performed annually worldwide. Bone grafting is clinically used in the form of fillers and scaffolds to facilitate bone formation and promote wound healing. However, most surgeons and dentists still prefer autologous bone to other types of bone substitutes such as xenografts or allografts. To develop a viable alternative capable to overcome the pitfalls of autologous bone, i.e., reduced availability, donor site morbidity, etc., while ensuring at least the same performance, researchers have reverted to tissue engineering. Indeed, for effective bone regeneration to occur, three key elements must coexist: a carrier, growth and differentiation factors, and living functional cells synthesizing the extracellular matrix. Any innovative, well-planned study dealing with ''Novel Grafts and Biomaterials in Bone Tissue Engineering'' is welcome. We kindly invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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