Special Issue

Effects of Bone Substitute Materials in Bone Defect Regeneration

Message from the Guest Editor

With the development of regenerative medicine, traditional biomaterials can no longer meet clinical needs. Current developments in the field are focused on endowing biomaterials with specific structure and biological functions which can stimulate the specific response of the body, mobilize the self-improvement and rehabilitation function of the human body, and realize the regeneration and reconstruction of human tissues or organs. This discovery of osteoinducion indicates that materials might be endowed with the biofunction of inducing tissue regeneration, and thus are hopeful for realizing the establishment of tissue function through material design. This Special Issue will focus on the development of bioactive materials for bone regeneration. The Special Issue topics of interest include, but are not limited to:

- Fabrication methods of bone substitutes;
- Surface modification of bone substitutes;
- Evaluation of chemical and physical properties of bone substitutes;
- Specific effects of biomaterial characteristics on osteogenesis.

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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