Special Issue

Improving Bone Tissue Engineering and Regeneration at the Biological and Biomaterials Level

Message from the Guest Editors

Bone regeneration, with the rapid advances in tissue engineering, is at the dawn of a new era. Technical progress, particularly with 3D printing adapted or not to the patients' bone defects, now makes it possible to consider not only manufacturing purely bone grafts but also and above all combinations with adjacent tissues, without forgetting the vascularization. An all-in-one graft, with perfect architecture, osteo-conductive, -inductive and -genic, pre-vascularized and multi-tissue... and why not! We should not forget either the pharmacological-, restorative-, bone cementing and fixation-, endosseous implantology- approaches, etc. In this Special Issue, we will propose an overview of the progress made in this field, both in terms of the biology of bone regeneration and the biomaterials used to achieve it.

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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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