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Novel Grafts and Biomaterials in Bone Tissue Engineering

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2020)

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.

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Message from the Editor-in-Chief

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