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Nanomaterials and Microstructures in Bone Regeneration

Guest Editor:

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Deadline for manuscript submissions:

closed (25 August 2021)

Message from the Guest Editor

Dear Colleagues,

Rejection and contamination problems related to scaffolds and implants are the challenges in bone regeneration. Bone tissue engineering has evolved as an interdisciplinary method to design materials and engineer functions based on developing platforms for cell adhesion, migration, and proliferation. Designing facile techniques to achieve advanced architecture for this purpose is highly sought after in nano- and micro-structures as an effective and innovative structure to mimic the extracellular matrix (ECM). These nano- and micro-structures provide attractive constructions for critical skeletal defects. This Special Issue aims to gather high-quality original research work and specialized review articles on a wide range of topics, including biomimetic materials, self-healing materials. nanocomposite materials, and microstructures for bone regeneration and bone-related implants.

- bone implants
- bone regeneration
- bone scaffold
- guided bone regeneration
- nanostructure
- microstructure
- bone tissue engineering
- 3D scaffold
- nanocomposites
- biocompatible nano and micro for bone













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Message from the Editor-in-Chief

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