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Novel Biomaterials for Orthopaedic/Musculoskeletal Tissue Engineering

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Message from the Guest Editor

Bone tissue engineering, developed as an alternative to autografts and allografts, represents one of the most investigated biomedical areas. Numerous biomaterials based on synthetic and natural polymers, bioceramics, and metals have been investigated in order to replace and repair the damaged native tissues. Recent advances are also focused on 3D porous scaffold templates providing structural support for bone cells. Moreover, the addition of various growth factors, cytokines, or selected drugs (i.e., antiresorptive, anticancer, or antimicrobial drugs) may significantly improve the bone healing process.

This Special Issue focuses on the new developments in biomaterials for orthopaedic/musculoskeletal tissue engineering. Particularly, it will cover a selection of recent research topics and review articles in the field of synthesis, the physicochemical properties of new biomaterials and their composites, as well as cell-biomaterial interactions. Biomaterials for growth factors and drug delivery are also of interest.

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Message from the Editor-in-Chief

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