

Special Issue

Novel Biomaterials for Bone Regeneration

Message from the Guest Editors

Recent developments in biomaterials for bone regeneration have emphasized the integration of drug delivery systems to enhance healing and tissue integration. Bioceramics, such as hydroxyapatite and tricalcium phosphate, are not only biocompatible and osteoconductive but also serve as effective carriers for controlled drug release, promoting bone cell adhesion and proliferation. We invite researchers to contribute original research articles, reviews, and clinical studies that explore the intersection of biomaterials, drug delivery, and bone regeneration. Topics include, but are not limited to, the following: Bone tissue regeneration; Drug delivery systems for bone repair; Nanomedicine in bone regeneration; Pharmacokinetics and pharmacodynamics of bone-targeted therapies; Dental biomaterials and implant dentistry; Growth factors and bioactive molecules in bone healing; 3D-printed scaffolds with drug-eluting properties; Formulation strategies for osteogenic drugs. By contributing to this Special Issue, you will help advance the rapidly evolving field of bone regeneration materials and their applications in pharmaceuticals. We look forward to your submissions.

Guest Editors

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