



Biomaterials for Bone Repair and Regeneration

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Message from the Guest Editor

The treatment of bone defects caused by trauma and disease is a common yet often challenging clinic issue. Biomaterials are an essential scaffolding substance for bone repair that can be engineered to deliver biofactors, stimulate cell functions, and construct a favorable microenvironment in order to support the tissue regeneration process. Numerous metals, ceramics, polymers, as well as their composites, have been processed to provide bone scaffolds, and some of them have already been used for practical applications, yet it is still challenging to design biomaterials that can achieve reliable bone repair and realize biomimetic bone regeneration. Therefore, engineering biomaterials that can actively engage with biological processes during bone repair and regeneration are highly desired. The aim of this Special Issue is to demonstrate the recent development of novel biomaterials with engineered properties for bone repair and regeneration applications. This Special Issue is open to both original papers and reviews.





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