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Advanced Composite Biomaterials for Tissue Regeneration

Guest Editor:

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Message from the Guest Editor

Biomaterials for tissue repair are continuously evolving; however, only a select few meet the rigorous demands for clinical application. Hence, there is an urgent need for composite biomaterials with superior properties, encompassing composite composition, spatial structure, porosity, degradation capability, surface morphology, and other crucial physical and chemical attributes at the interface. A significant challenge hindering the advancement of composite biomaterials lies in the incomplete understanding of the mechanisms governing tissue repair induced by these materials. Cutting-edge methodologies and innovative experimental designs are essential to overcome this bottleneck.

This Special Issue aims to showcase recent advancements in composite biomaterials for tissue repair, emphasizing intelligent strategies to regulate cellular behavior and tissue responses. Original research articles and comprehensive reviews will cover a broad spectrum of topics including advancements in biomaterials for tissue repair, optimization of biomaterial properties, inflammation response, regulation of biomaterials in tissue repair processes, and other biological molecules.

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Message from the Editor-in-Chief

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