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Functional Biomaterials for Bone Tissue Engineering

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Deadline for manuscript submissions:
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Message from the Guest Editors

Bone diseases such as osteoporosis, bone cancer, or osteoarthritis—the progression of which increases subchondral bone loss—are major causes of bone defects. Tissue engineering is an efficient alternative for treating such defects. This approach employs the combination of biomaterials, cells, and bioactive agents to promote bone regeneration. To date, a wide range of synthetic and natural biopolymers and biocomposite materials have emerged to induce the formation of bone constructs with the biochemical and mechanical properties of native tissue.

The aim of this Special Issue is to highlight the emerging materials developed to recreate the microenvironments present in native bone. Additionally, special attention is given to scaffold designs, fabrication methods such as 3D printing, and material–cell interactions, which are of great importance to the structure and functionality of engineered bone tissue.

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Message from the Editor-in-Chief

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