Special Issue

Advanced Biomaterials in Bone Defect Healing

Message from the Guest Editor

Biomaterials play a crucial role in regeneration and repair of bone, especially when the size of a defect extends beyond the body's ability to heal spontaneously. This Special Issue will bring together papers that focus on biomaterials designed and developed to address issues surrounding repair and regeneration of bone including but not limited to the following:

- Design, development, and fabrication of novel scaffolds or biomaterials for bone healing;
- Fate of resident or transplanted stem and progenitor cells in scaffolds after implantation;
- In vivo imaging of biomaterials or scaffolds during bone healing;
- Preclinical and clinical studies on biomaterials for bone repair and regeneration;
- Mechanical properties of various biomaterials specifically designed for bone repair and regeneration;
- Role of biomaterials and scaffolds in the reconstitution of damaged bone microenvironment;

Special Issue Link:
https://www.mdpi.com/journal/applsci/special_issues/Biomaterials_Bone_Healing

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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