



## Patient-Tailored Biomimetic Scaffold Constructs for Bone Regeneration

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### Message from the Guest Editors

This Special Issue aims to address the challenges in the development of new biomimetic systems and technologies in the field of bone regeneration and reconstruction, including new scaffold design and engineering novel biomaterials, innovative scaffold design, advanced (bio)printing and 4D printing techniques, scaffold–cell interactions, drug delivery and scaffold functionalization strategies, imaging techniques for ultrastructural characterization, and valuable state-of-the art meta-analyses, in order to provide a complete and multidisciplinary vision of the faced thematic, from the engineering aspect to the biological and clinical point of view.

### Keywords

- osteoconduction
- osteoinduction
- biomimetic scaffolds
- personalized medicine
- additive manufacturing
- biotechnology
- nanotechnology
- regenerative medicine





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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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