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Design of Materials for Bone Tissue Scaffolds

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Message from the Guest Editor

The recent development of additive manufacturing techniques has allowed the building of regular scaffolds made from a very wide gamma of biocompatible materials and including complex and sophisticated geometries that can be optimized to increase the scaffold performance in terms of mechanical resistance and mechanobiological properties. This has made the design process of materials for bone tissue scaffolds an issue of crucial importance and the object of study of many researchers throughout the world. It is commonly known, in fact, that the rate of bone tissue regeneration and the cellular response is significantly influenced by the scaffold structural response that is, in turn, a function of the scaffold micro-architecture and of the mechanical properties of the material it is made from.

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Guest Editor



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Message from the Editor-in-Chief

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