Special Issue

Latest Research of Additive Manufacturing Techniques in Tissue Engineering

Message from the Guest Editors

Additive manufacturing techniques have attracted considerable attention in several commercial and research applications, due to their potential to fabricate complex structures with high reproducibility and control over the fabrication process and the final microstructure. In the field of tissue engineering, these properties are pivotal to produce scaffolds, cell constructs, 3D models, and devices meeting the physiological requirements and specifically designed for personalized medicine. Topics include, but are not limited to:

- methodologies and approaches for the design and fabrication of one-, two- and three-dimensional constructs from millimiter to submicron-size fibers for tissue engineering applications;
- characterization of tissue engineering products for both hard and soft tissue applications;
- exploitation of 3D printing strategies for device prototyping for personalized medicine;
- fabrication of tools, enabling solutions to tissue engineering issues;
- simulation and modeling of the fabrication process.

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