Special Issue

3D Bioprinting and Biofabrication for the Future of Tissue Engineering

Message from the Guest Editors

The emergence of novel biofabrication strategies and biomaterial development have contributed to the considerable strides of tissue engineering. In particular, 3D bioprinting enabling the precise positioning of various cells and biomaterials have brought rapid progress to the field of tissue engineering in recent years. Nevertheless, there are unmet needs in engineering ideal tissues/organs in several aspects, including bioprinting systems, bioinks, cell sources, vascularization, maturation, and regenerative capability. For these reasons, engineered living constructs are still far from native tissues and organs.

This Special Issue covers novel biofabrication systems, bioinks, and new strategies for engineering in vitro models and enhancing in vivo regeneration. This Special Issue also pursues to encompass/discuss future perspectives for biomedical convergence on tissue engineering and other trendy technologies (biosensors, bio-big data, biomedical imaging, artificial intelligence, etc.).

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