Special Issue

Bio-MEMS for Cell and Tissue Engineering

Message from the Guest Editor

The application of MEMS technology to biology has contributed to a wide range of application from basic biology to clinical applications. In particular, engineering cells and tissues by the development of bio-MEMS technologies have elucidated the fundamentals of cellular behaviour, the mechanisms of cell and tissue assembly, and the conditions of clinical applications in tissue regeneration. Recent development of microfabrication technologies such as complex microfluidic chips, 3D micro- patterning, and 3D lithography leads us to new research areas that have not been challenged before in cell tissue engineering. Research areas such as organoid formation, body on a chip, and microphysiological sysems will be novel challenging fields using these novel MEMS technologies. This Special Issue will collect research papers, short communications, and review articles that focus on novel bio-MEMS technologies for engineering cells and/or tissue.

Guest Editor

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