



Biofabrication: Chapter 1. In Vitro Biofabrication of Tissues and Organs (Micro and Nano Technologies)

By Koichi Nakayama

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In vitro fabrication of tissues and the regeneration of internal organs are no longer regarded as science fiction but as potential remedies for individuals suffering from chronic degenerative diseases. Tissue engineering has generated much interest from researchers in many fields, including cell and molecular biology, biomedical engineering, transplant medicine, and organic chemistry. Attempts to build tissues or organs in vitro have utilized both scaffold and scaffold-free approaches. Despite considerable progress, fabrication of three-dimensional tissue constructs in vitro remains a challenge. In this chapter, we introduce and discuss current concepts of tissue engineering with particular focus on future clinical application.

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