



Biofabrication: Chapter 4. Fabrication of Microscale Hydrogels for Tissue Engineering Applications (Micro and Nano Technologies)

Gulden Camci-Unal, Pinar Zorlutuna, Ali Khademhosseini

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Microscale hydrogels are potentially useful materials for controlling cellular behavior to mimic native microenvironments for tissue engineering applications. In this chapter, various fabrication techniques to generate microscale hydrogels and their applications in tissue engineering have been outlined. In addition, we provide examples of microscale hydrogels with different physical and chemical properties for generation of tissue constructs. Finally, we discuss potential future directions in fabrication of hydrogels to address challenges in tissue engineering. It is expected that these techniques will enable engineering of three-dimensional (3D) structures with controlled features for the formation of functional tissues and organs.

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