Joint Special Issue
Hydrogels in Tissue Engineering

Message from the Guest Editor

Polymers form the foundation of regenerative medicine as a supportive matrix for cell immobilization and growth factor delivery. The fate of implanted cells is mediated by cell–matrix interaction at multiple scales and timed-release of growth factors to guide the differentiation and maturation of cells. As a result, recently there has been great interest in polymers with a hierarchical structure to mimic the complex interaction of cells with their microenvironment and polymers that can locally release growth factors to specific cells. Related topics include polymers with a hierarchical structure, hybrid and degradable scaffolds, load-bearing and self-healing scaffolds, polymers for cell encapsulation and biofabrication, polymers for micro-patterning, microfluidic devices, and high-throughput screening, injectable, and *in situ* hardening polymers for minimally-invasive applications, polymers that modulate the body's immune response, and polymeric delivery systems for spatiotemporal delivery of growth factors.

Guest Editor

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