



Advance of Polymers Applied to Biomedical Applications: Cell Scaffolds

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Deadline for manuscript
submissions:

closed (30 June 2017)

Message from the Guest Editors

Dear Colleagues,

Since the pioneering work by Langer and Vacanti, in vitro mimicry of the juxtacrine interactions has been achieved mainly through the use of polymers in regenerative medicine and cell therapy. Although the primary function of polymeric scaffolds was initially structural, providing the physical sites for cell adhesion and growth in a 3D form, scientific and technological developments have advanced to enable the manipulation of cell behavior and function, ultimately controlling cell fate, by the use of polymers, including supramolecular hydrogels. The purpose of this Special Issue is to highlight the recent achievements in the use of polymers as cell scaffolds on a broad scale, not only limited to the use of polymers as cell-culture scaffolds, but also including polymer-based approaches for controlling interfacial interactions of cells in vitro.

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