



Advance of Polymers Applied to Biomedical Applications: Cell Scaffolds

Guest Editors:

Prof. Dr. Insung S. Choi

Department of Chemistry, KAIST,
291 College Road, Yuseong-gu,
Daejeon 34141, Republic of Korea

Prof. Dr. João F. Mano

Department of Chemistry,
CICECO-Aveiro Institute of
Materials, University of Aveiro,
3810-193 Aveiro, Portugal

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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.

Prof. Dr. Insung S. Choi

Prof. Dr. João F. Mano

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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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Polymers Editorial Office
MDPI, St. Alban-Anlage 66
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