

Special Issue

Cell-Biomaterial Interaction 2019

Message from the Guest Editors

It is well-known that cells recognize and interact with biomaterials in different forms (e.g., nanoparticles, 3D scaffold, coating, film), through a plethora of plasma membrane proteins that activate a signal cascade, steering cells toward a selected behavior. Therefore, developing innovative biomaterials with peculiar physico-chemical properties, focusing on specific architectures/porosity is instrumental to tune cell fate. Moreover, a specific biodecoration of a material with biomolecules/drugs could further enhance the bioactivity of a material itself, reflecting on an improved cellular response. This Special Issue focuses on several aspects of the cell/biomaterial interaction, and we invite contributions of reviews and/or original papers reporting recent efforts in the field of biomaterials applications.

Keywords

- cell-material interaction
- biomaterials
- regenerative medicine
- stem cells
- cell therapy
- nanomedicine
- regenerative medicine
- cell fate
- nanoparticles
- 3D scaffold
- biofunctionalization

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closed (31 October 2019)



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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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