



Polymers toward Mechanobiology

Guest Editor:

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Message from the Guest Editor

Mounting evidence has recognized that mechanical cues linked to extracellular milieus represent potent modulators in directing cell behavior, tissue development or eliciting onset of pathologies. Enormous efforts are currently being undertaken to assemble 2D and 3D networks exhibiting desired mechanics as a model to study cell response. Hence, bottom-up approaches encompassing the selection (and eventual chemical modification) of innovative polymers up to the assembly thereof are sought to unveil unprecedented materials.

The aim of this Special Issue of *Polymers* is to bring together researchers at the edge of polymer chemistry, materials assembly, and related applications in the mechanobiology field. A cadre of themes of large interest are welcomed, including—but not limited to—polymer chemical modifications to modulate resulting material mechanics and/or direct cell fate decisions, stimuli-responsive polymers, substrate-to-cell interplay (mechanotransmission/transduction), and recent developments in smart polymers in relation to mechanobiology, to mention just a few examples.





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Message from the Editor-in-Chief

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