



Stimuli-Sensitive Materials for Biomedical and Pharmaceutical Applications

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Message from the Guest Editors

Dear Colleagues,

The interplay between biomaterials and components of biological origin (e.g., cells, proteins and nucleic acids) constitutes a rich topic of interest that can aid the investigation of specific cellular functions and cues for therapeutic and research purposes in a spatiotemporally controlled manner. “Smart” polymers, which can reversibly change their physico-chemical properties in response to the application of external stimuli, and inorganic nanoparticles encompass an extensive library of building blocks that can lead to the design of hybrid, multi-responsive constructs that are important in the biomedical field, ranging from nanocarriers and biosensors for precision medicine, to material ensembles and injectable fillers for cell-based therapies, tissue engineering and three-dimensional (3D) in vitro modelling. We invite scientists worldwide to contribute to this Special Issue with articles that concern the most recent advancements in stimuli-sensitive biomaterials for pharmaceutical and biomedical applications.

- responsive polymers
- hydrogels
- nanoparticles
- biofabrication
- controlled drug delivery
- tissue engineering
- gene therapy





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