Special Issue

Stimuli-Sensitive Materials for Biomedical and Pharmaceutical Applications

Message from the Guest Editors

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 stimulisensitive biomaterials for pharmaceutical and biomedical applications.

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

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2023)



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