

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 stimuli-sensitive biomaterials for pharmaceutical and biomedical applications.

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

Guest Editors

Dr. Adérito J. R. Amaral

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

Dr. Rosemeyre A. Cordeiro

Center for Neuroscience and Cell Biology, University of Coimbra, 3004-504 Coimbra, Portugal

Deadline for manuscript submissions

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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