



Responsive Polymer Nanostructured Assemblies: Activity in Cancer Therapy

Guest Editor:

Dr. Athina Angelopoulou

Department of Pharmacy,
University of Patras, GR 26500
Rion, Greece

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Message from the Guest Editor

Dear Colleagues,

The pharmacologic interest in polymer therapeutics has expanded to include drug delivery vehicles, control, and optimization of the transport activity of therapeutic agents, including peptides, proteins, genes, aptamers, RNA/DNA molecules, imaging agents, and small drugs. Polymers are of great interest due to the straightforward relation of therapeutic agents, increased payload, protection of the agents from hydrolysis or degradation, targetability at the tissue or intracellular sites, with changes on the polymers' physicochemical properties in response to a stimulus, enabling their use as dynamic modulators of cancer therapeutics. Traditional anticancer therapies lead to increased levels of toxicity in healthy tissues. In cases of drug-resistant tumors, the development of prominent smart responsive polymeric nanostructures and combinational treatments is of particular research importance. Aspects affecting the pharmacologic activity of responsive polymeric nanostructures are of interest in this Special Issue as long as they offer insight into linker chemistry, therapeutic agents, and polymer–cell interactions.





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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

Message from the Editor-in-Chief

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Pharmaceutics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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