

Special Issue

Stimuli-Responsive Nanoparticles for Pharmaceutical Application in Cancer

Message from the Guest Editors

Stimuli-responsive nanocarriers for the controlled release of encapsulated cargo represent a powerful tool to minimize the risk of systemic exposure of non-target tissues to drugs, thus avoiding undesired side effects and drug–plasma interactions, and to increase the site-specific concentration of a drug or of a signalling molecule. The ability of a nanosystem to modify its physicochemical properties in response to external stimuli or environmental conditions, producing a variation in its structure or function, perfectly illustrates the concept of nanostructures as defined by the EMA in the following terms: a system with specific properties that are not obtainable with its isolated individual components, and that confer clinical advantages. This Special Issue’s goal is to highlight current progress in the development of anti-tumour therapeutic strategies based on stimuli-responsive nanocarriers. We invite review or original articles on all aspects of “Stimuli-Responsive Nanoparticles for Pharmaceutical Application in Cancer”.

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