



Structure Optimization of Nanovectors and Self-Assembled Nanoparticles for Smart Drug Delivery

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Message from the Guest Editor

Dear Colleagues,

Smart delivery of drugs largely relies on nanovectors and self-assembled nanoparticles. As a shared trait, they are multicomponent objects with complex internal structure, held by noncovalent interactions. The library of usable compounds is vast, and so is the atlas of self-assembled shapes and structures, so that drugs of a very different nature can be suitably endowed with a hosting matrix with the aim of enhancing their therapeutic efficacy while reducing adverse effects. This ultimate goal can be attained by optimizing all steps of drug delivery, from pharmaceutical preparation to final release, along loading, storage, administration, protection, targeting and dropping. In this long and rugged travel, the responsiveness of self-assembled nanostructures to external conditions can be exploited to formulate evolving carriers, along common or new administration routes, each time displaying the appropriate and empowering tactics to support a challenging strategy game. This Special Issue aims at the most promising advances in the optimization of nanostructured vectors and self-assembled nanoparticles for potential pharmaceutical applications.





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Message from the Editor-in-Chief

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