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Nanotechnology-Based Drug Delivery Systems

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Message from the Guest Editor

Dear Colleagues,

To date, there has been growing interest in the use of nanotechnologies for the creation and investigation of drug delivery systems (DDSs) in the development of novel forms of efficient pharmaceutical dosages. Such nano-sized drug carriers may be used not only to maintain a required blood level of a pharmaceutical agent for an extended period of time for a better drug bioavailability, but also to decrease a drug's toxicity or provide the dissolubility of poorly soluble active substances for injection-administrated medicines in the form of highly dispersed aqueous systems. Numerous nano-scaled DDSs such as liposomes, metal nanoparticles, carbon nanoparticles and nanotubes, nano-crystals, polymeric nanospheres, nanocapsules and micelles, dendrimers, ghost bacteria and viruses and even quantum dots are being thoroughly investigated for the delivery of various drugs and diagnostic agents, both of a low- and high-molecular-weight origin.

The aim of this Special Issue of the *Pharmaceutics* journal is to collect research and review papers regarding nanotechnology-based DDS applications in the pharmaceutical field.



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Special Issue



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Message from the Editor-in-Chief

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