Special Issue

Nanotechnology-Based Drug Formulations and Drug Delivery Systems

Message from the Guest Editor

Nanocarriers (NCs) are potential vehicles designed to safely carry drug molecules to the site of interest. NCs can be broadly categorized into three groups: organic, inorganic and virus-based. Organic nanocarriers include solid lipid nanoparticles (SLNs), liposomes, niosomes, dendrimers, polymeric nanoparticles, and polymeric micelles. Prominent among inorganic nanocarriers are carbon nanotubes and mesoporous silica nanoparticles (MSNs). Virus-based nanocarrier systems have also been rigorously investigated.

The nanoformulation of drug molecules has also gained rapid momentum over the past decade. As noted in the recent literature, gold and silver nanoparticles, even when stabilized by molecules such as tryptone (trypsinized casein) or citrate, can possess considerable therapeutic potential and display novel mechanisms of action. This special issue, entitled “Nanotechnology-Based Nanocarriers and Drug Delivery Systems”, highlights some of the most exciting and therapeutically relevant findings, supplying research articles and insightful reviews in nanomedicine research.

Guest Editor

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