# Special Issue

# Nanoparticle-Based Gene Delivery

## Message from the Guest Editors

Efficient delivery of the nucleic acids to the target cells is hampered by a number of extracellular and intracellular barriers which necessitates the use of a suitable gene delivery system. The fast growth of gene therapies is in part due to the introduction of various types of non-viral nanoparticle-based gene delivery systems most notably lipid-based and polymer-based systems. Compared to viral vectors, the nanoparticle based gene vectors are more versatile, safer (less immunogenic), easier to manufacture and scale up, and have much more potential for functionalization and targeting. The focus of this issue of Pharmaceutics is novel nanoparticle-based gene delivery systems for highly efficient delivery of nucleic acid therapeutics to different organs and tissues. The scope of the issue covers every kind of nanoparticles made of polymers, lipids, peptides, proteins, metals, and hybrid systems for delivery of all kinds of therapeutic nucleic acids including pDNA, mRNA and oligonucleotides (ASOs, SSOs, siRNA, shRNA, miRNA).

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