Special Issue

Gene Delivery Nanosystems

Message from the Guest Editor

The number of gene therapy clinical trials and approved gene therapy products has steadily increased in recent years. Substantial progress has been made in the development of different types of nucleic acids, including plasmid DNA, mRNA, microRNA, small interfering RNA, and antisense oligonucleotides, in order to use them in gene therapy approaches. Up to now, the large majority of gene therapy clinical trials has been based on the use of viral vectors, due to their features such as high levels of transduction or their efficient and stable integration of exogenous DNA into the host genome. Nonetheless, they have several drawbacks such as immunogenicity, limited DNA packaging capacity, challenging vector modification and/or production, and the possible activation of oncogenes. In this context, non-viral gene delivery systems, namely nanosystems, have the potential to overcome these limitations, allowing not only a safe but also an efficient gene delivery process into target cells. I would like to invite you to submit your original papers or reviews on the design, development, characterization, and application of nanosystems in nucleic acid delivery.

Guest Editor

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