Special Issue

Non-Viral Gene Delivery Systems

Message from the Guest Editor

Advances in gene therapy have significantly improved the possibility for nucleic acids as highly promising agents for the treatment of both inherited and acquired human diseases. Substantial progress has been made in the development of different types of nucleic acids, including plasmid DNA, mRNA, microRNA, etc. Until now, the large majority of gene therapy clinical trials have been based on the use of viral vectors, namely, due to features such as high levels of transduction, or efficient and stable integration of exogenous DNA into host genomes. However, several drawbacks have been associated with viral vectors, such as immunogenicity, carcinogenesis, the size limit of exogenous DNA, and the difficulty of large-scale production. Non-viral gene delivery systems have the potential to overcome these limitations, allowing not only a safe but also an efficient gene delivery process into target cells. This Special Issue aims at highlighting the current progress in non-viral gene delivery systems. I would like to invite you to submit your original papers or reviews on its design, development, characterization, and application.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2020)

Pharmaceutics

an Open Access Journal by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed

mdpi.com/si/25960

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