Special Issue

Non-viral Gene Delivery Systems, 2nd Edition

Message from the Guest Editor

Advances in the field of 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. 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 to highlight the current progress in non-viral gene delivery systems. In this regard, I would like to invite you to submit your original papers or reviews on the design, development, characterization, and application of non-viral gene delivery systems.

Guest Editor

Dr. Henrique Faneca

Center for Neuroscience and Cell Biology, University of Coimbra, 3004-517 Coimbra, Portugal

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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