



## Non-viral Gene Delivery Systems, 2nd Edition

Guest Editor:

**Dr. Henrique Faneca**

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

Deadline for manuscript  
submissions:

**closed (20 July 2023)**

### Message from the Guest Editor

Dear Colleagues,

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.

Dr. Henrique Faneca

*Guest Editor*



[mdpi.com/si/76528](https://mdpi.com/si/76528)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Patrick J. Sinko**

Department of Pharmaceutics,  
Ernest Mario School of  
Pharmacy, Rutgers University,  
Piscataway, NJ 08854, USA

## Message from the Editor-in-Chief

*Pharmaceutics* (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceutics and biopharmaceutics. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmaceutical Science*)

## Contact Us

*Pharmaceutics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/pharmaceutics](http://mdpi.com/journal/pharmaceutics)  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)  
X@MDPIpharma