

Special Issue

Pharmaceutical Aspects of Polymer-Based Delivery of Nucleic Acids 2022

Message from the Guest Editor

The therapeutic potential using nucleic acids (DNA or RNA) has many clinical applications for the treatment of diseases. For reaching the goal, these nucleic acids require vectors with efficacy and efficiency. The use of non-viral carriers, mainly based on cationic polymers which have low or no immunogenicity and are able to transfect a great variety of cells, has received substantial attention. This Special Issue focuses on the physicochemical properties as well as the transfection potential of polymer-based nucleic acid formulations (referred as polyplexes). New approaches and different polymeric systems with chemical modifications are introduced, and how these polyplexes tackle the cellular barriers, the cytotoxicity, and low transfection efficiency for a successful expression of delivered genes are demonstrated and discussed. Finally, attention is given to the stabilization of non-viral nucleic acid formulations.

Guest Editor

Dr. Jong Yuh Cherng

Department of Chemistry and Biochemistry, National Chung Cheng University, Chiayi, Taiwan

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

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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