



## A Commemorative Issue in Honor of Professor Gregory Gregoriadis: Liposomes for the Delivery of Drugs and Vaccines

Guest Editor:

**Prof. Dr. Sophia G.  
Antimisiaris**

1. Laboratory of Pharmaceutical  
Technology, Department of  
Pharmacy, School of Health  
Sciences, University of Patras,  
26504 Rio-Patras, Greece  
2. Institute for Chemical  
Engineering Sciences,  
Foundation for Research and  
Technology Hellas, FORTH/ICE-  
HT, Stadiou Street, 26510  
Platani-Rio, Greece

Deadline for manuscript  
submissions:  
**closed (30 June 2024)**

### Message from the Guest Editor

The design and development of liposomal drugs may offer solutions to such delivery problems, especially if the liposomal carriers can reach, and deliver the associated drug to their specific biological targets. In addition to Drug Delivery solutions, liposomes can offer solutions to vaccination limitations. Vaccination is often hampered by the presence of infectious agents, weak immune responses and prohibiting costs. Such problems may be circumvented by immunisation with nucleic acids, especially when associated with cationic lipids in the form of liposomes and other lipid-based nanoparticles. The contributors of the present volume deal with the background and progress made so far with liposomes for drug delivery and targeting, as well as vaccines. Theoretical and practical advantages as well as potential risks are discussed.

liposomes for drug delivery  
development, applications, and challenges of ligand-  
targeted liposomal drugs  
liposomes and biological barriers  
liposomes as immunological adjuvants  
cationic liposomes and lipid nanoparticles as vaccine  
carriers  
immunization with nucleic acids in liposomes  
entrapment of nucleic acid vaccines in cationic liposomes





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 and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

## Contact Us

---

Pharmaceutics Editorial Office  
MDPI, Grosspeteranlage 5  
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