

Special Issue

Chitosan and Its Derivatives Functionalized Drug Delivery Systems for Biomedical Application

Message from the Guest Editors

Chitosan, as the only naturally occurring polycationic polysaccharide, has been widely implicated in the design of drug delivery systems for various biomedical applications due to its considerable biocompatibility and biodegradability. Furthermore, chitosan derivatives obtained via chemical modification of functional groups always display better stability and higher water solubility than chitosan, which also hold promising potential in broadening the application than its predecessors, such as drug delivery, antibacterial activity or anticancer capabilities. Glycated Chitosan and N-dihydro-galactochitosan, respectively, are combined with thermal ablation or laser strategy for tumor therapy in clinical trials, where chitosan derivatives act as adjuvants.

This Special Issue aims to invite submissions concerning new trends in the biomedical application of chitosan and its derivatives. Contributions may focus on chitosan and its derivatives functionalized drug delivery systems, such as hydrogels, micelles or multi-component nanoscale systems. In this Special Issue, original research articles and reviews are welcome.

Guest Editors

Prof. Dr. Fuqiang Hu

College of Pharmaceutical Science, Zhejiang University, 866
Yuhangtang Road, Hangzhou 310058, China

Prof. Dr. Hong Yuan

College of Pharmaceutical Science, Zhejiang University, 866
Yuhangtang Road, Hangzhou 310058, China

Deadline for manuscript submissions

closed (31 December 2023)



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/155211

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

[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)





Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



[mdpi.com/journal/
pharmaceutics](https://mdpi.com/journal/pharmaceutics)



About the Journal

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.

Editor-in-Chief

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

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).