Special Issue

Fate of Drugs and Delivery Systems in the Lungs

Message from the Guest Editor

Delivering drugs directly to the lungs remains a major therapeutic intervention in the management of respiratory diseases. Recently, drug inhalation has more been explored as a non-invasive route to the systemic circulation, particularly for drugs with a poor oral bioavailability.

Recent years have seen the development of advanced delivery systems to enable the administration of biotherapeutics to the respiratory tract, target specific cells of the pulmonary tissue, or prolong drug retention in the lungs. The fate of drugs and drug formulations once deposited in the lungs has, in comparison, received little attention. This can partly be explained by the anatomical complexity of the lungs, and, consequently, the need for simplified tools to investigate drug disposition post-inhalation.

This Special Issue will highlight current research exploring the events that follow the deposition of drugs and delivery systems at the surface of the lungs, including, but not limited to, particle dissolution, interactions with cellular and non-cellular pulmonary barriers, epithelial transport, intracellular trafficking, and the development of in vitro systems to study those events.

Guest Editor

Dr. Cynthia Bosquillon

School of Pharmacy, University of Nottingham, University Park, Nottingham NG7 2RD, UK

Deadline for manuscript submissions

closed (30 June 2022)



Pharmaceutics

an Open Access Journal by MDPI

Impact Factor 5.5 CiteScore 10.0 Indexed in PubMed



mdpi.com/si/26249

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

mdpi.com/journal/ pharmaceutics





an Open Access Journal by MDPI

Impact Factor 5.5 CiteScore 10.0 Indexed in PubMed



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

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, 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).

