

Special Issue

Advancing HIV Prevention and Treatment: Pharmacokinetics, Pharmacodynamics, Toxicokinetics, Formulation and Delivery of Antiretroviral Drugs

Message from the Guest Editor

Long-acting injectable formulations of antiretrovirals represent a significant advancement in HIV care. These formulations enable sustained drug release, with dosing intervals of one or two months, reducing the risk of patients developing resistance due to fluctuating drug levels. Moreover, novel drug delivery systems such as polymer-coated nanoparticle antiretrovirals may address some of the limitations of current drugs. These nanoparticles can enhance drug delivery to important tissues, reduce dosing requirements, and facilitate drug penetration into lymphoid and central nervous system sites.

This Special Issue will provide readers with an overview of the current controversies and advancements in HIV PrEP and HIV treatment, with a focus on the use of pharmacokinetic and pharmacodynamic tools to solve clinical problems. It will also highlight recent developments in novel drug formulations and delivery systems, such as long-acting injectables, transdermal patches, and other innovative approaches that aim to improve adherence and effectiveness.

Guest Editor

Dr. Julie B. Dumond

Division of Pharmacotherapy and Experimental Therapeutics, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC 27599, USA

Deadline for manuscript submissions

31 October 2025



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/236304

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 pharmaceuticals and biopharmaceuticals. 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).