

## Special Issue

# Model-Based Pediatric Drug Formulation Development

### Message from the Guest Editor

The goal of this Special Issue is to fill the knowledge gap in applications of mathematical modeling and simulations for pediatric formulation development. The research areas solicited for this Special Issue include but are not limited to topics such as the use of population PK models to identify formulation parameters responsible for PK variability of pediatric formulations, pediatric formulation optimization using in vitro in vivo correlation (IVIVC), use of mechanistic approaches such as physiologically based pharmacokinetic modeling (PBPK) to identify formulation parameters responsible for optimal PK, and use of artificial intelligence and machine learning techniques for excipient selection and toxicological evaluation of pediatric formulations.

### Guest Editor

Dr. Venkata Kashyap Yellepeddi

Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, Salt Lake City, UT 84112, USA

### Deadline for manuscript submissions

closed (20 March 2023)



## Pharmaceutics

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.5  
CiteScore 12.5  
Indexed in PubMed



[mdpi.com/si/137571](https://mdpi.com/si/137571)

*Pharmaceutics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)

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





# Pharmaceutics

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.5  
CiteScore 12.5  
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

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, CAPIus / 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 15.7 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).