Special Issue

Pharmacokinetic Modeling and Simulation in the Design of Long-Acting Drug Delivery Systems

Message from the Guest Editors

Long-acting drug delivery systems (LADDSs) offer significant advantages for patients in improving adherence and efficacy across a wide range of therapeutic strategies. Sophisticated modeling and simulation approaches can optimize LADDS designs and expedite their development. This Special Issue aims to showcase the latest advancements in PK modeling and simulation techniques applied in the design, optimization, and evaluation of LADDSs. We welcome contributions exploring novel modeling approaches across a wide array of computational techniques. including physiologically based pharmacokinetic (PBPK) modeling, population PK modeling, and quantitative systems pharmacology (QSP). We will prioritize submissions that focus on applying these modeling approaches to predict and optimize PK profiles of various drug delivery systems with to accelerate the development of safe and effective LADDSs. We invite the submission of original research articles, review articles, and perspective pieces presenting innovative methodologies, case studies, and critical analyses in the field of PK modeling and simulation for LADDSs.

Guest Editors

Dr. Mackenzie Cottrell

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

Dr. Leah M. Johnson

Biomedical Technologies, RTI International, Research Triangle Park, Durham, NC 27703, USA

Deadline for manuscript submissions

closed (22 September 2025)



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

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Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*. *Pharmaceuticals* is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us.

We hope to handle your contribution to *Pharmaceuticals* soon.

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Cièncias, Universidade de Lisboa, Lisboa, Portugal

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