

## 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 (LADDs) 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 LADDs. 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 LADDs. 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 LADDs.

### Guest Editors

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### Deadline for manuscript submissions

22 September 2025



## Pharmaceuticals

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### Message from the Editor-in-Chief

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.

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### Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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