





an Open Access Journal by MDPI

# Application of Translational Mathematical Modeling in Drug Development

Guest Editors:

#### Prof. Dr. Beom Soo Shin

School of Pharmacy, Sungkyunkwan University, Suwon, Gyeonggi-do 16419, Republic of Korea

## Prof. Dr. Jürgen B. Bulitta

College of Pharmacy, University of Florida, Orlando, FL 32827, USA

Deadline for manuscript submissions:

closed (31 January 2019)

# **Message from the Guest Editors**

Dear Colleagues,

Despite great advances in biomedical science and technology, the success rates in drug development remain low with a declining trend. Translational, model-based drug development can improve the rigor and efficiency of drug development by employing pharmacokinetic and pharmacodynamic principles to describe and predict drug behavior. Modelling and simulations presents a powerful approach to integrate information from different stages of drug development and support decision making. In turn, this enables the design of more informative studies, saving cost and time, and ultimately enhance the success rates of drug development.

This Special Issue is intended to cover a broad range of topics in translational mathematical modelling applied to drug development. This includes, but is not limited to, pharmacokinetic/pharmacodynamic (PK/PD) models, physiologically-based pharmacokinetic (PBPK) models, population models, in vitro-in vivo correlations (IVIVC), and systems pharmacology approaches. We seek to highlight recent advances and innovations in this area and invite the researchers to contribute their original research work or review articles.

Guest editors













an Open Access Journal by MDPI

# **Editor-in-Chief**

#### Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

# **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.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1 (*Pharmaceutical Science*)

#### **Contact Us**