

Special Issue

Adding Model-Informed Precision Dosing to Precision Medicine to Improve Patient Drug Treatment Outcomes

Message from the Guest Editors

Providing the right treatment at the right dose to the right patient is the ultimate goal of individualized (personalised) medicine. Although innovative breakthroughs in personalised medicine have led to the identification of mostly genetic biomarkers, improving treatment selection (the right treatment for the right patient), this process often stops without providing optimised personalised dosing (right dose). Thus, a large research gap remains. Model-informed precision dosing is an advanced mathematical approach, which integrates existing clinical and individual patient characteristics to determine the optimal dose. This approach has been shown to reduce the large inter-individual variability in drug exposure observed with many clinically used drugs. However, The need to combine model-informed precision dosing with precision medicine is undeniable. This Special Issue's theme focuses on using pharmacokinetic, pharmacodynamic, pharmacogenetic or any biomarker knowledge in a model-informed precision-dosing strategy to further enhance precision medicine for therapeutic agents by improving toxicity, efficacy, or survival.

Guest Editors

Prof. Dr. Kishor M. Wasan

Dr. Madele Van Dyk

Dr. Robin Michelet

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

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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