Special Issue

Model-Informed Precision Dosing

Message from the Guest Editors

Model-informed precision dosing (MIPD) is an advanced quantitative approach focusing on individualized treatment optimization. MIPD integrates mathematical models of drugs and disease combined with individual patient characteristics (e.g., genotype, anthropometric factors, organ function). MIPD has been highlighted as a useful tool for drug dosage selection in both drug development process and clinical practice. Despite the potential benefits of this methodology toward personalized medicine, its application is still limited. This Special Issue is focused on new MIPD strategies and methodologies to optimize drug dosage (dosing algorithms, pharmacokinetic–pharmacodynamic indexes, interactive applications, nomograms, etc.) in specific populations, allowing to evaluate the potential improvement on the clinical efficacy and/or safety of the treatments.

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