

Special Issue

Pharmaceutical Cocrystals: Development, In Vitro Studies and Physiologically Based Pharmacokinetic Models

Message from the Guest Editors

Pharmaceutical cocrystals can effectively be used to modify and improve the physicochemical properties of compounds without chemically modifying them. This is especially important for BCS class II or IV drugs which have poor water solubility and/or poor permeability. Physiologically based pharmacokinetic models are very useful for the early prediction of drug bioavailability in different drug delivery systems. However, finding applications for cocrystals and supersaturating systems is still a challenge and a research hotspot. This Special Issue aims to showcase recent progress in the use of cocrystals as supersaturating drug delivery systems and the use of PBPK models to study the pharmacokinetics of these systems. Potential topics include, but are not limited to: Cocrystals; Multidrug cocrystals; Cocrystallization; Solid-state characterization; Dissolution; Supersaturation; Stability; PK(/PD), PBPK, and QSP models of drugs; The optimization of dosing regimens; In vitro–in vivo extrapolation. We cordially invite researchers from academia, industry, and government agencies working in related fields to submit their work.

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