Special Issue

Mechanistic In Vitro and In Silico Modeling of Oral Drug Absorption

Message from the Guest Editor

Dear Collegaues, Mechanistic in vitro and in silico modeling of oral drug absorption is anticipated to enable accurate in vivo prediction. To achieve this goal, a better understanding of gastrointestinal physiology, drug properties, and molecular-level mechanisms is critically important. The aim of this Special Issue is to highlight current progress in this field. The scope of this issue includes in vitro models, mathematical mechanistic models, gastrointestinal physiology, drug properties, and related areas in oral drug absorption. In addition, modeling and simulation (M&S) literacy is the key to progress. Easy case-by-case parameter fitting underlies the sound development of sciences, as Ptolemy's model did for astronomy over 1300 years. Therefore, articles related to M&S literacy are also welcome (e.g., identifiability analysis).

Guest Editor

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