Special Issue

Drug Absorption Studies: In Situ, In Vitro and In Silico Models

Message from the Guest Editor

Since oral administration of drugs remains the route of choice for numerous drugs, intestinal permeability of orally administered drugs has been widely used to determine the rate and extent of intestinal absorption of drugs. Solubility, dissolution, and gastrointestinal physiology, including transit, pH condition, and mechanisms for gut metabolism and transport, could also affect the intestinal absorption of orally administered drugs. Several strategies have been developed to estimate the oral bioavailability of drugs and to understand or overcome the issues associated with low oral bioavailability. The implementation of in situ, in vitro, and in silico methods, followed by in vivo evaluation, can guide to obtain the acceptable oral bioavailability in the drug development and formulation process. This Special Issue aims to highlight the mechanisms related to low intestinal drug absorption, the strategies to overcome the obstacles or intestinal drug absorption, and in situ, in vitro, and in silico methodologies to predict intestinal drug absorption.

Guest Editor

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