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Drug Metabolism/Transport and Pharmacokinetics

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Message from the Guest Editor

Clinically important phase I and II metabolizing enzymes and transporters from two major superfamilies, ABC (ATP binding cassette) and SLC (Solute carrier) transporters, are designated and the pivotal roles of drug metabolizing enzymes and drug transporters in the pharmacokinetics, pharmacogenomics, and drug-drug interactions have been recognized. Therefore, researchers and regulatory agencies have made an effort to understand the pharmacokinetics, pharmacogenomics, and drug–drug interactions with respect to mechanistic changes in these drug metabolizing enzymes and transporters. With a trend of polypills and increased use of medicinal food, concurrent administration of herbal drugs can cause serious adverse reactions with substrate drugs of metabolizing enzymes and transporters by the potential for the inhibition or induction of their activities. For this, the prediction and evaluation of the contribution of drug metabolizing enzymes and transporters to the pharmacokinetics and drug–drug interaction potential of drugs or drug candidates are important in clinics and in the drug development process.

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Message from the Editor-in-Chief

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