

Pharmacokinetic profiling in drug research : biological, physicochemical, and computational strategies / Bernard Testa ...[et al.], (eds.)

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Abstrak

The profiling of ADME properties (absorption, distribution, metabolism, and excretion) is the topic of this book. In this unique work, international authorities and practicing experts from academia and industry offer state-of-the-art presentations of concepts, methods and technologies now in use or development in drug research. The biological strategies emphasized in the book include cell cultures, drug-metabolizing enzymes, transporters and plasma protein binding. The physicochemical strategies focus on artificial membrane-permeability assays, on solubility and lipophilicity and related molecular properties as factors and predictors of pharmacokinetic behavior, and on stability and solid-state properties. Computational strategies comprize the exploration of property spaces, pharmacophore searching to predict biotransformation and enzyme inhibition, and expert systems to process biopharmaceutical profiling data.