

Medici-PK

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MEDICI-PK - The Virtual Laboratory for Pharmacokinetics

Pharmacokinetics and -dynamics involve the study of the drug-organism interaction, in particular the investigation of absorption, distribution, meta-bolism and excretion (ADME) processes and the effect of the drug on the body.

In recent years, *in silico* (computational) approaches for the analysis, prediction and optimization of pharmacokinetic and pharmacodynamic processes have attracted considerable attention.

During the past two years CiT has developed a powerful, modular, application-specific and user-friendly virtual laboratory to support modeling, simulation and optimization of physiologically-based pharmacokinetic and mechanics-based pharmacodynamic processes in the context of drug design and risk assessment.

MEDICI-PK brochure

MEDICI-PK has been developed in co-operation with Dr. Wilhelm Huisinga, now at Hamilton Institute, Dublin, Ireland.

First publications can be accessed here:

[Software Supported Modelling in Pharmacokinetics](#)

[The Virtual Lab Approach to Pharmacokinetics: Design Principles and Concepts](#)