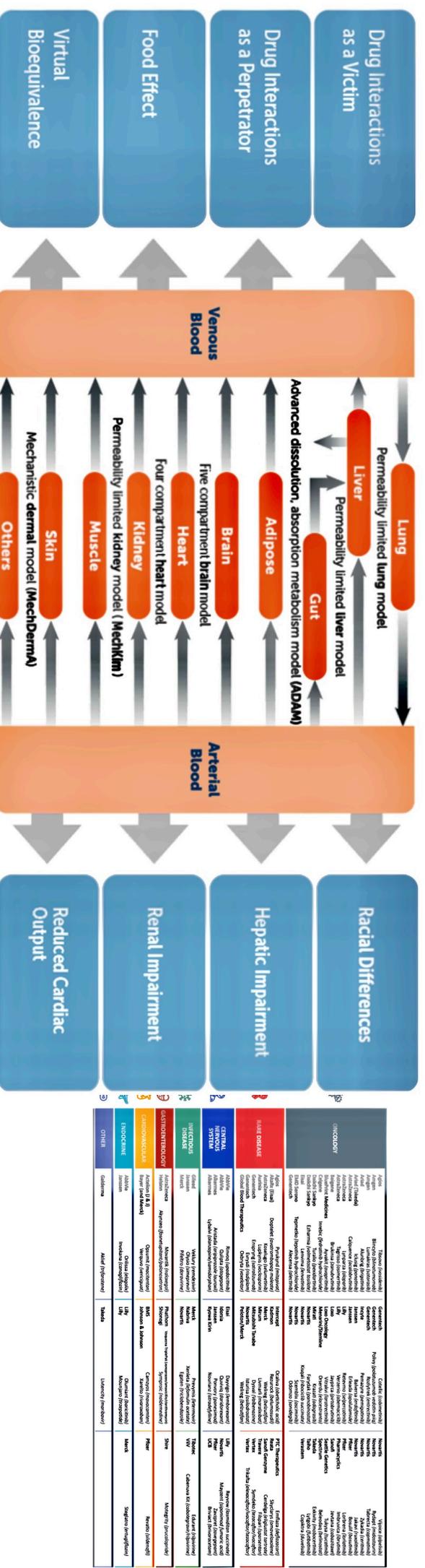


Simcyp™ PBPK Simulator

Predict Drug Performance from Virtual Populations

The Simcyp Simulator is the pharmaceutical industry's most sophisticated physiologically based pharmacokinetics (PBPK) platform for determining first-in-human dosing, optimizing clinical study design, evaluating new drug formulations, setting the dose in untested populations, performing virtual bioequivalence analyses, and predicting drug-drug interactions (DDIs). Simcyp is being applied to small molecules, biologics, ADCs, generics, and new modality drugs.



System	Model	Model Description	Model Description	Model Description
Hematology	Age	Age-dependent hematology	Age-dependent hematology	Age-dependent hematology
	Sex	Sex-dependent hematology	Sex-dependent hematology	Sex-dependent hematology
Liver Disease	Childhood Liver Disease	Childhood liver disease	Childhood liver disease	Childhood liver disease
	Adult Liver Disease	Adult liver disease	Adult liver disease	Adult liver disease
Central Nervous System	Brain	Brain compartmental model	Brain compartmental model	Brain compartmental model
	Heart	Heart compartmental model	Heart compartmental model	Heart compartmental model
Intestines	Small Intestine	Small intestine compartmental model	Small intestine compartmental model	Small intestine compartmental model
	Large Intestine	Large intestine compartmental model	Large intestine compartmental model	Large intestine compartmental model
Gastrointestinal System	Stomach	Stomach compartmental model	Stomach compartmental model	Stomach compartmental model
	Colon	Colon compartmental model	Colon compartmental model	Colon compartmental model
Endocrine	Thyroid	Thyroid compartmental model	Thyroid compartmental model	Thyroid compartmental model
	Adipose	Adipose compartmental model	Adipose compartmental model	Adipose compartmental model
Other	Skin	Skin compartmental model	Skin compartmental model	Skin compartmental model
	Cardiac	Cardiac compartmental model	Cardiac compartmental model	Cardiac compartmental model

The Standard for Population-based - Physiologically Based Modeling and Simulation -
 Updated with Version 22 Capabilities

<https://www.certara.com/software/simcyp-pbpbk/>

