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""Mass Balance: Blood Pool""; ""Mass Balance: Tissue Region i"";
""SIMPLIFICATIONS OF MASS BALANCES""; ""Examples""; ""DISCUSSION"";
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GENERALIZATIONS AND EXTRAPOLATIONS""; ""Allometry: Body Size
Constraints in Animal Design""; ""INTRODUCTION""; ""SIZE, DESIGN,
AND PHARMACOKINETICS""
""Aerobic Energetics of Muscle In Vivo"" ""Conflict of Physiological and
Chronological Time""; ""Species Extrapolations, Physiological Time, and
Pharmacokinetics""; ""CONCLUSIONS""; ""SUMMARY""; ""References"";
""Prediction of In Vivo Parameters of Drug Metabolism and Distribution
from In Vitro Studies""; ""IN VITRO PREDICTION OF IN VIVO DRUG
METABOLISM""; ""IN VITRO PREDICTION OF IN VIVO DRUG BINDING AND
DISTRIBUTION""; ""CONCLUSION""; ""References""; ""Dose, Species, and
Route Extrapolation: General Aspects""; ""DIFFERENT PROBLEMS AND
OBJECTIVES, DIFFERENT MODELS""; ""Different Mechanisms""
""GENERAL PHYSIOLOGICALLY BASED PHARMACOKINETIC MODELS""
""Simplification of Models""; ""Rates of Formation of Complexes"";
""Diffusional Barriers and Modified Fick's Law""; ""Simple PB-PK
Models""; ""Basic Parameters f_u and R ""; ""Nonlinear Kinetics and Lost
Concepts""; ""INTERFACE BETWEEN PB-PK MODELS AND CLEARANCES"";
""Organ Availabilities (F), Extraction Ratios (E), and Clearances (CL)"";
""Physiologically Based Linear Compartmental Pharmacokinetic
Models""; ""Validity of the Assumption of Virtual Steady State"";
""Calculation of Other Compartmental Model Parameters""
""Approximations of Terminal Half-Lives"" ""Approximate Time
Required to Approach Steady State""; ""LINEAR PHARMACOKINETIC
SYSTEMS""; ""Total Body Clearance""; ""Importance of the Unbound
Concentration of Substances""; ""Classification of Organs; Routes of
Administration""; ""Non-First-Pass, Nonelimination Organs""; ""Range of
Maximum and Minimum Unbound Concentrations in Nonelimination
Organs and Repetitive Administration""; ""Non-First-Pass, Elimination
Organs""; ""FIRST-PASS, NONELIMINATION ORGANS""; ""First-Pass,
Elimination Organs""; ""ROUTE-TO-ROUTE EXTRAPOLATION""; ""Lungs
and Skin Administration""
