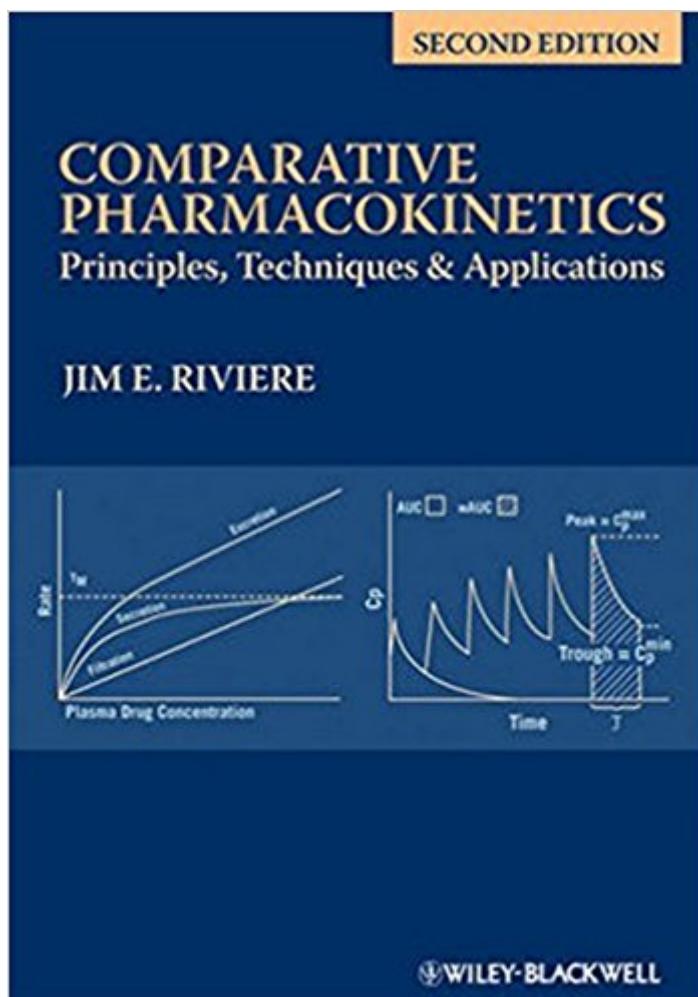


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Comparative Pharmacokinetics: Principles, Techniques And Applications



Synopsis

Now in a revised edition, Comparative Pharmacokinetics: Principles, Techniques, and Applications presents the principles and techniques of comparative and veterinary pharmacokinetics in a detailed yet practical manner. Developed as a tool for ensuring that pharmacokinetics studies are properly designed and correctly interpreted, the book provides complete coverage of the conceptual basis of pharmacokinetics as used for quantifying biological processes from the perspectives of physiology and medicine. New chapters have been added on quantitative structure permeability relationships and bioequivalence, and a number of existing chapters have been significantly revised and expanded to provide a current resource for veterinary and comparative pharmacokinetics.

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"This book is helpful in understanding and designing pharmacokinetic studies, illustrating basic concepts and noting the species differences. . . The book does a good job of explaining a concept and then expands with more specific examples. It provides a good base for pharmacokinetic modeling and illustrates the pitfalls with interspecies extrapolation." (Doody's, 21 October 2011)

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designed and correctly interpreted, the book provides complete coverage of the conceptual basis of pharmacokinetics as used for quantifying biological processes from the perspectives of physiology and medicine. New chapters have been added on quantitative structure permeability relationships and bioequivalence, and a number of existing chapters have been significantly revised and expanded to provide a current resource for veterinary and comparative pharmacokinetics. The second edition retains the structure of the first, beginning with the basic principles of physiology and then moving into the primary approaches used in pharmacokinetic modeling, including extensive coverage of dosage regimens and adjustments, interspecies extrapolation, experimental design, data collection and analysis, and residues and withdrawal times. With broad human and animal species coverage, Comparative Pharmacokinetics is essential reading for those working in drug research and development, as well as those with advanced interest in pharmacology and toxicology in veterinary or comparative medicine. Key features Provides a detailed but understandable reference on the conceptual basis of veterinary and comparative pharmacokinetics Covers practical applications to both animal and human medicine Offers essential information for ensuring that pharmacokinetics studies are correctly designed and interpreted Includes new chapters on quantitative structure permeability relationships and bioequivalence, as well as fully revised and expanded chapters throughout Presents a fully rewritten chapter on simultaneous pharmacokinetic-pharmacodynamic modeling to reflect its newly widespread role in comparative medicine Facilitates the reader in making conceptual linkages between theory and applications with expanded cross-referencing between topics

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