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# The Biochemistry of Drug Metabolism

By Bernard Testa, Stefanie D. Krämer

Helvetica Chimica Acta Verlag, Switzerland, Switzerland, 2010. Paperback. Book Condition: New. 1. Auflage. 239 x 173 mm. Language: English . Brand New Book. Offering a conceptual and factual presentation of the metabolism of drugs and other xenobiotics, these two volumes distinctly focus on the biochemistry, with an emphasis on xenobiotic-metabolizing enzymes, their reactions and regulations. The first volume is divided into three parts. Part One begins by introducing xenobiotics in the broad context of physiological metabolism, and continues with an overview of the processes of drug disposition and metabolism. It then goes on to summarize the macroscopic and microscopic locations of drug metabolism in animals and humans. This is followed by an introduction to the all-important issue of the consequences of drug and xenobiotic metabolism, providing an initial overview of pharmacokinetic, pharmacological and toxicological consequences. The last chapter examines drug metabolism in the context of drug research, with a focus on medicinal chemistry. The second part is a major component of the book, corresponding to the role of oxidoreductases as major agents of metabolism. Cytochromes P450 receive particular attention, namely their multiplicity, structure, catalytic mechanisms, and the various reactions they catalyze, while other oxidoreductases are also presented, such as flavin monooxygenases,...



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