



Enzyme Systems that Metabolise Drugs and Other Xenobiotics

Costas Ioannides

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This definitive reference work describes in detail the enzyme systems that participate in the metabolism of xenobiotics, particularly medicinal drugs. Each chapter focuses on a specific enzyme system, emphasising its role in the activation and detoxication of chemicals. Aspects discussed critically include:

- * enzyme function in the metabolism and bioactivation of xenobiotics
- * substrate specificity
- * tissue distribution
- * species distribution (to include laboratory animals and humans)
- * hormonal regulation
- * sex differences
- * modulation by prior exposure to other chemicals
- * age-dependent expression
- * pharmacogenetics and modulation by disease.

Enzyme Systems that Metabolise Drugs and Other Xenobiotics will be essential reading for industrial research scientists working in the fine chemicals and pharmaceutical industries, especially those concerned with the safety evaluation of chemicals, and investigating their metabolism, pharmacokinetic characteristics and toxicological properties. The nature and scope of the book will also make it attractive to the research toxicologist and to postgraduate students studying toxicology, as well as to clinicians and pharmacists.

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