Human Drug Metabolism: An Introduction, 2nd Edition
Michael D. Coleman

DESCRIPTION

Human Drug Metabolism, An Introduction, Second Edition provides an accessible introduction to the subject and will be particularly invaluable to those who already have some understanding of the life sciences. Completely revised and updated throughout, the new edition focuses only on essential chemical detail and includes patient case histories to illustrate the clinical consequences of changes in drug metabolism and its impact on patient welfare.

After underlining the relationship between efficacy, toxicity and drug concentration, the book then considers how metabolizing systems operate and how they impact upon drug concentration, both under drug pressure and during inhibition. Factors affecting drug metabolism, such as genetic polymorphisms, age and diet are discussed and how metabolism can lead to toxicity is explained. The book concludes with the role of drug metabolism in the commercial development of therapeutic agents as well as the pharmacology of some illicit drugs.

ABOUT THE AUTHOR

Dr Michael D. Coleman, Presently senior lecturer in toxicology at Aston University. During his career, Dr. Coleman has worked at Liverpool University, Walter Reed Army Institute of Research in Washington D.C. and latterly Aston University. His substantial and
original contribution to knowledge of the biochemical pharmacology and toxicology of antiparasitic drugs has been acknowledged in the award of the degree of Doctor of Science from Aston University in 2005.

NEW TO EDITION

- Completely revised and updated throughout with new chapter on drug metabolism and disease states with the Clinical Relevance Section revised to include current clinical status of CYP2D6/CYP2C9 genotyping (cost problems, lack of physician knowledge, uncertainty as to how the information can be used) as well as cost/benefit.

- More emphasis on genotyping value for warfarin and a more balanced clinical appraisal of value of genotyping for specific drugs (e.g. perhexiline, nortriptyline).

- New material includes; more examples of induction with newer anticonvulsants, OTC herbal remedies with expanded coverage of the impact on protease inhibitors

- New section on Butyrylcholinesterase and the neuromuscular blockers (mivacurium etc) and new material on dihydropyrimidine dehydrogenase/5-FU and recent toxicity studies.

FEATURES

- Includes detailed appendix on examination techniques with information on how to write a ‘first class answer’ and advice on how to prepare for your exam in advance.

- Includes end of chapter summaries throughout to enhance student understanding

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