



# Drug Stereochemistry: Analytical Methods and Pharmacology, Third Edition (Drugs and the Pharmaceutical Sciences)

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**Drug Stereochemistry: Analytical Methods and Pharmacology, Third Edition** covers all aspects of chiral drugs from academic, governmental, industrial, and clinical perspectives, reflecting the many advances in techniques and methodology.

Topics include:

- The use of enzymes in the synthesis and resolution of enantiometrically pure compounds in drug discovery
- How stereochemistry impacts decisions made in the absorption, distribution, metabolism, excretion, and toxicity (ADMET) stages of drug discovery
- Pharmacokinetics and pharmacodynamics and the issues faced during the final stages of the drug development process
- The impact of the International Conference on Harmonisation (ICH) on the use of single isomer drugs
- Chiral switches
- The concept of molecular chiral recognition and how it affects the separation and behavior of stereochemically pure drugs
- Patent issues surrounding chiral switches and the marketing of single enantiomer switches

The book provides a solid background on stereochemistry, from its early history, including an overview of terms and concepts, to the current drug development process, legal and regulatory issues, and the new stereoisomeric drugs. It is a one-stop reference for pharmaceutical scientists and chemists working with chiral drug molecules.



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