

Stereochemical Aspects of Drug Action and Disposition

Editors

Michel Eichelbaum, Bernard Testa
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Stereochemical Aspects Of Drug Action And Disposition

Irving Wainer



Stereochemical Aspects Of Drug Action And Disposition:

Stereochemical Aspects of Drug Action and Disposition Michel F. Eichelbaum, Bernard Testa, Andrew Somogyi, 2012-12-06 This book aims to guide and inspire drug researchers as they enter the 21st century Stereochemistry is an essential dimension in pharmacology and should be understood as such by all drug researchers whatever their background When used as probes or medicines stereoisomeric drugs offer invaluable insights or innovative therapeutic strategies The book spans the subject from the molecular to the clinical The first section on chemical aspects contains chapters on chemical synthesis analysis natural products chiral stability racemization and physical properties The second section is on experimental pharmacology with chapters on drug receptor interactions chiral recognition ion channels and molecular toxicology The third section focuses on drug disposition with chapters on absorption distribution protein binding metabolism and elimination The final section is dedicated to regulatory and clinical aspects

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Stereochemical Aspects of Drug Action and Disposition Michel Eichelbaum, Bernard Testa, Andrew Somogyi, 2003 This book aims to guide and inspire drug researchers as they enter the 21st century Stereochemistry is an essential dimension in pharmacology and should be understood as such by all drug researchers whatever their background When used as probes or medicines stereoisomeric drugs offer invaluable insights or innovative therapeutic strategies The book spans the subject from the molecular to the clinical The first section on chemical aspects contains chapters on chemical synthesis analysis natural products chiral stability racemization and physical properties The second section is on experimental pharmacology with chapters on drug receptor interactions chiral recognition ion channels and molecular toxicology The third section focuses on drug disposition with chapters on absorption distribution protein binding metabolism and elimination The final section is dedicated to regulatory and clinical aspects

Drug Stereochemistry Irving Wainer, 1993-02-24 Maintaining and enhancing its focus on key issues in the development regulatory approval and use of stereoisomeric compounds this edition continues to cover in detail all aspects of chiral drugs from the academic governmental industrial and clinical points of view Completely rewritten and updated throughout Drug Stereochemistry illustrates current indirect chromatographic methods for the resolution of drug enantiomers treats the rapidly growing area of enantioselective gas chromatography discusses the latest in HPLC resolution of enantiomeric drugs uses verapamil as a model to show how stereoselective pharmacokinetics affect pharmacodynamics and supplies an in depth study on the effect of stereoselective plasma protein binding This edition offers entirely new chapters that discuss the recent decisions and present position of the US Food and Drug Administration on the development of stereoisomeric drugs explicate enzymatic synthesis of stereochemically pure drugs review the toxicological pharmacokinetic and pharmacodynamic differences found among stereoisomers elucidate the stereoselective transport of drugs across epithelia and give a physician s perspective on the questions and problems caused by stereoisomeric drugs in

practice as well as the pharmaceutical industry's collective viewpoint based on a national survey, Smith and Williams' Introduction to the Principles of Drug Design and Action H. John Smith, H. John Williams, 2005-10-10 Advances in knowledge and technology have revolutionized the process of drug development making it possible to design drugs for a given target or disease Building on the foundation laid by the previous three editions Smith and Williams Introduction to the Principles of Drug Design and Action Fourth Edition includes the latest information *Advances in Drug Research*, 1996-07-02 This volume continues the trend for Advances in Drug Research of shorter but more frequent volumes In line with the tradition of the series chapters on general themes are interspersed with chapters on specific drug classes and targets

Differentiation of Enantiomers I Volker Schurig, 2013-12-16 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field

Biocatalysis in the Pharmaceutical and Biotechnology Industries Ramesh N. Patel, 2006-09-26 Because enzyme catalyzed reactions exhibit higher enantioselectivity regioselectivity substrate specificity and stability they require mild conditions to react while prompting higher reaction efficiency and product yields Biocatalysis in the Pharmaceutical and Biotechnology Industries examines the use of catalysts to produce fine chemicals *Pharmacodynamics and Drug Development* Neal R. Cutler, John J. Sramek, Prem K. Narang, 1994-09-20 Contains essential facts and concepts spanning many of the important drug classes Features an authoritative section on general methodology and regulatory issues The molecular biology and pharmacology of key receptor types are considered along with the detailed pharmacodynamics of a wide range of therapeutic drug groups

Chirality in Drug Research Eric Francotte, Wolfgang Lindner, 2007-09-24 Divided into the three main sections of synthesis analysis and drug development this handbook covers all stages of the drug development process including large scale synthesis and purification of chirally pure pharmaceuticals The two editors from academia and a major pharmaceutical company have assembled an experienced international team who provide first hand practical advice and report previously unpublished data In the first section the isolation of chiral drugs from natural sources their production in enzymatic processes and the resolution of racemic mixtures in preparative chromatography are outlined in separate chapters For the

section on qualitative and quantitative analysis enantioselective chromatographic methods are presented as well as optical methods and CE MS while the final section deals with the pharmacology pharmacokinetics and metabolic aspects of chiral drugs devoting whole chapters to stereoselective drug binding and modeling chiral drug receptor interactions With its unique industry relevant aspects this is a must for medicinal and pharmaceutical chemists

Generic Drug Product Development Isadore Kanfer, Leon Shargel, 2007-11-15 The assessment of bioequivalence is an important process whereby the bioavailability of a generic drug product is compared with its brand name counterpart Generic pharmaceutical products must be approved as therapeutic equivalents to the brand name alternative in order to be interchangeable The demonstration of bioequivalence is an important comp

Chirality in Drug Design and Development Indra K. Reddy, Reza Mehvar, 2004-03-15 Covering every essential element in the development of chiral products this reference provides a solid overview of the formulation biopharmaceutical characteristics and regulatory issues impacting the production of these pharmaceuticals It supports researchers as they evaluate the pharmacodynamic pharmacokinetic and toxicological characterist

Drug Discovery Research Ziwei Huang, 2007-05-23 Post Genomics Drug Discovery and Research explores and discusses some of the most important topics in post genomics life and biopharmaceutical sciences It provides an introduction to the field outlining examples of many techniques currently used as well as those still under development which are important for the research of biopharmaceutical discovery in the post genomics era Integrates several developing and cutting edge technologies and methods like bioinformatics experimental therapeutics and molecular recognition Includes discussion on topics such as computer aided ligand design peptide and protein chemistry and synthesis synthesis of active natural products and the use of emerging technologies like proteomics nanotechnology or bioengineering

Recent Advances in Anaesthesia and Intensive Care: Volume 22 A. P. Adams, J. N. Cashman, R. M. Grounds, 2002-01-12 Recent Advances in Anaesthesia and Intensive Care 22 is the latest volume in this very successful and long established series previously entitled Recent Advances in Anaesthesia and Analgesia to present a series of cutting edge topics for anaesthetists from some of the world's leading authorities in their subjects As the title suggests this and future volumes will have increased input from the field of intensive care but the emphasis will remain on producing articles of high quality and interest to the reader and providing exceptional value for money

New Trends in Pharmacokinetics Aldo Rescigno, Ajit K. Thakur, 2012-12-06 The last decade or so has witnessed tremendous progress in methodology in the field of drug development in general and pharmacokinetics in particular Clinical pharmacokinetics is using new tools for probing into the black box once being accessible only partly through experimental techniques and mostly through mathematical and computer means Development of computerized scanning positron emission tomography PET stereoselectivity and other techniques are now enabling investigators to have better pictures of the systems they are studying Mathematical models through computer simulation and statistical estimation mostly due to easy access because of inexpensive yet powerful

personal computers are enabling us to investigate ultrastructures and their functional connectivity in more detail As a consequence new hypotheses are being formed and tested in various related fields In clinical pharmacokinetics mostly due to mathematical modeling more accurate interspecies scaling of pharmacokinetic parameters and dosimetry can be done now a days The concept of a human is a bigger rat does not necessarily fly as a consequence Pharmacokinetic concepts are becoming powerful tools in meaningful carcinogenic and toxic risk extrapolation of different chemicals in humans New dose delivery designs are being formulated using pharmacokinetic techniques for different pharmaceutical compounds Investigations continue in the academia research institutions pharmaceutical biotechnological and agricultural industries in developmental and physiological aspects of different chemicals for the benefit of mankind The idea of a school on New Trends in Pharmacokinetics from which the present pUblcation was made possible took shape over almost a year Real World Drug Discovery Robert M. Rydzewski,2010-07-07 Drug discovery increasingly requires a common understanding by researchers of the many and diverse factors that go into the making of new medicines The scientist entering the field will immediately face important issues for which his education may not have prepared him project teams patent law consultants target product profiles industry trends Gantt charts target validation pharmacokinetics proteomics phenotype assays biomarkers and many other unfamiliar topics for which a basic understanding must somehow be obtained Even the more experienced scientist can find it frustratingly difficult to get an overview of the many factors involved in modern drug discovery and often only after years of exploring does a whole and integrated picture emerge in the mind of the researcher Real World Drug Discovery A Chemist s Guide to Biotech and Pharmaceutical Research presents this kind of map of the landscape of drug discovery In a single readable volume it outlines processes and explains essential concepts and terms for the recent science graduate wondering what to expect in pharma or biotech the medicinal chemist seeking a broader and more timely understanding of the industry or the contractor or collaborator whose understanding of the commercial drug discovery process could increase the value of his contribution to it Interviews with well known experts in many of the fields involved giving insightful comments from authorities on many of the sub disciplines important to cutting edge drug discovery Helpful suggestions gleaned from years of experience in biotech and pharma which represents a repository drug discovery lore not previously available in any book Periodic Table of Drugs listing current top selling drugs arranged by target and laid out so that structural similarities and differences are plain and clear Extensive use of diagrams to illustrate concepts like biotech startup models preteomic profiling for target identification Gantt charts for project planning etc *The Impact of Stereochemistry on Drug Development and Use* Hassan Y. Aboul-Enein,Irving W. Wainer,1997-04-11 The past fifteen years have seen a revolution in the field of stereochemistry with breakthrough analytical techniques in enantiomeric separation profoundly affecting drug development and use This practical reference written by leading researchers focuses on the important roles chirality and stereoisomerism play in drug development efforts presenting for the first time a comprehensive

overview of this rapidly evolving area of pharmacological research The book explores analytical pharmacological and regulatory topics in dealing with the theory and practice of stereochemistry in the pharmaceutical industry today This exciting broad appeal treatment extends from the analytical viewpoint in enantiomeric separation to the regulatory issues involved in the racemate versus enantiomer debate The authors include numerous examples and case studies and integrate material from a wide range of studies publications and workshops The introductory chapters outline the pharmacological effects of stereochemistry cover stereochemistry in drug metabolism and discuss problems inherent in the duality of enantiomers chemically identical yet spatially different molecules Contributions on the specific aspects of chirality and drug activity explore the toxicological effects of stereoselectivity illustrate how an understanding of the stereochemical composition of certain drugs can help avoid problems and offer tips on new clinical applications for existing drugs A full chapter is devoted to research opportunities in the development of new chirally pure drugs Other practical research topics range from the preparation of chirally pure compounds to the analytical determination of stereochemical composition to applications of circular dichroism CD spectroscopy Regulatory issues concerning the development and approval of stereoisomeric drugs are discussed in the final chapters This section offers an international perspective as well as a historical review of the ongoing debate surrounding regulatory guidelines Impact of Stereochemistry on Drug Development and Use is an essential reference for medicinal and analytical chemists pharmacologists drug metabolism and pharmacokinetic scientists and personnel of regulatory agencies It is also a useful text for graduate students in stereochemistry and for anyone who wants to keep up with the swift pace of change in this dynamic field Impact of Stereochemistry on Drug Development and Use is an essential reference for medicinal and analytical chemists pharmacologists drug metabolism and pharmacokinetic scientists and personnel of regulatory agencies It is also a useful text for graduate students in stereochemistry and for anyone who wants to keep up with the swift pace of change in this dynamic field IMPACT OF STEREOCHEMISTRY ON DRUG DEVELOPMENT AND USE Twenty three expert contributions on the stereochemical revolution of the last fifteen years covering analytical pharmacological and regulatory topics show that drug development can no longer occur without consideration of drug stereochemistry We have come full circle and stand alongside Pasteur in amazement of nature s duality symmetry and dissymmetry and its chemical and pharmacological consequences from the Preface

Recent Advances in Chiral Separations D. Stevenson, I.D. Wilson, 2012-12-06 This volume represents the proceedings of the second international meeting on chiral separations held at the University of Surrey between the 12th and 15th of September 1989 Like the preceding meeting it was jointly organised by the Chromatographic Society and the Robens Institute of the University of Surrey in response to the continued interest in this area of separation science Of particular interest to the organisers was the very clear change in the nature of the delegates attending this second symposium as compared with the first At the previous meeting the majority of the delegates were composed of chromatographers with

problems in the area of chiral separations who were keen to learn as much as possible about these techniques from the handful of recognised experts in this area In this second symposium the divide between expert and novice was much less apparent with the latter providing many interesting and useful contributions to the scientific programme in term of both oral and poster presentations

Advances in Bioprocess Technology Pogaku Ravindra, 2015-08-13 This book provides an extensive overview of the latest research in environmentally benign integrated bioprocess technology The cutting edge bioprocess technologies highlighted in the book include bioenergy from lignocellulose materials biomass gasification ethanol butanol biodiesel from agro waste enzymatic bioprocess technology food fermentation with starter cultures and intellectual property rights for bioprocesses This book further addresses niche technologies in bioprocesses that broadens readers understanding of downstream processing for bio products and membrane technology for bioprocesses The latest developments in biomass and bioenergy technology are reviewed exhaustively including IPR rights nanotechnology for bioenergy products biomass gasification and biomass combustion This is an ideal book for scientists engineers students as well as members of industry and policy makers This book also Addresses cutting edge technologies in bioprocesses Broadens readers understanding of metabolic engineering downstream processing for bioproducts and membrane technology for bioprocesses Reviews exhaustively the latest developments in biomass and bioenergy technology including nanotechnology for bioenergy products biomass gasification biomass combustion and more

Stereochemical Aspects Of Drug Action And Disposition Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Stereochemical Aspects Of Drug Action And Disposition**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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