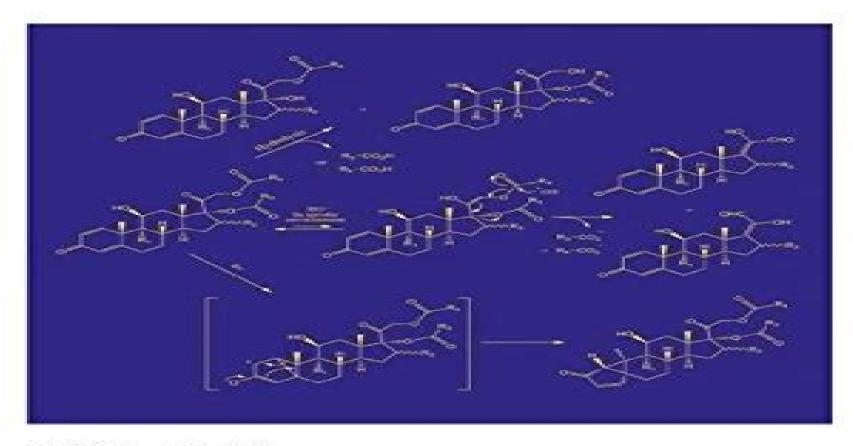
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Organic Chemistry of Drug Degradation



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Organic Chemistry Of Drug Degradation Rsc Rsc Drug Discovery

David C. Blakemore, Paul M. Doyle, Yvette M. Fobian

Organic Chemistry Of Drug Degradation Rsc Rsc Drug Discovery:

Organic Chemistry of Drug Degradation Min Li, 2015-10-20 The vast majority of drugs are organic molecular entities A clear understanding of the organic chemistry of drug degradation is essential to maintaining the stability efficacy and safety of a drug product throughout its shelf life During analytical method development stability testing and pharmaceutical manufacturing troubleshooting activities one of the frequently occurring and usually challenging events would be the identification of drug degradants and understanding of drug degradation mechanisms and pathways This book is written by a veteran of the pharmaceutical industry who has first hand experience in drug design and development drug degradation mechanism studies analytical development and manufacturing process troubleshooting and improvement The author discusses various degradation pathways with an emphasis on the mechanisms of the underlying organic chemistry which should aid greatly in the efforts of degradant identification formulation development analytical development and manufacturing process improvement Organic reactions that are significant in drug degradation will first be reviewed and then illustrated by examples of drug degradation reported in the literature The author brings the book to a close with a final chapter dedicated to the strategy for rapid elucidation of drug degradants with regard to the current regulatory requirements and guidelines One chapter that should be given special attention is Chapter 3 Oxidative Degradation Oxidative degradation is one of the most common degradation pathways but perhaps the most complex one This chapter employs more than sixty drug degradation case studies with in depth discussion in regard to their unique degradation pathways With the increasing regulatory requirements on the quality and safety of pharmaceutical products in particular with regard to drug impurities and degradants the book will be an invaluable resource for pharmaceutical and analytical scientists who engage in formulation development analytical development stability studies degradant identification and support of manufacturing process improvement In addition it will also be helpful to scientists engaged in drug discovery and development as well as in drug metabolism studies Comprehensive Biomarker Discovery and Validation for Clinical Application Péter Horvatovich, Rainer Bischoff, 2013 This book focuses on proteomics biomarker discovery and validation procedures from the clinical perspective It provides an overview of current technology and the challenges encountered throughout the process This covers all key stages from biomarker discovery and validation through to registration with the European and US regulatory authorities EMEA and FDA All the important elements such as patient selection sample handling data processing and statistical analysis are described in detail and the reader is introduced to each topic with well described examples or guidelines for best practice Case studies are also included to demonstrate clinical applications Individual chapters explain the best performing techniques for profiling complex body fluids and biomarker discovery This includes the application of different LC MS profiling platforms and affinity array for screening complex body fluids Future developments needed to improve the success rate of translating biomarker discovery into useful clinical tests are also discussed Common pitfalls and

success stories are described as are the limitations of the various technologies involved Broad and interdisciplinary in approach this book provides an excellent source of information for industrial and academic researchers Chemistry Strategies for Drug Discovery Emily A. Peterson, Julie B Manley, 2015-06-11 The incorporation of Green Chemistry is a relatively new phenomenon in the drug discovery discipline since the scale that chemists operate on in drug discovery is smaller than those of process and manufacturing chemistry. The necessary metrics are more difficult to obtain in drug discovery due to the diversity of reactions conducted However pharmaceutical companies are realizing that incorporation of green chemistry techniques at earlier stages of drug development can speed the development of a drug candidate Written by experts who have pioneered green chemistry efforts within their own institutions this book provides a practical guide for both academic and industrial labs wanting to know where to start with introducing greener approaches for greatest return on investment The Editors have taken a comprehensive approach to the topic covering the entire drug discovery process from molecule conception through synthesis formulation and toxicology with specific examples and case studies where green chemistry strategies have been implemented Emerging techniques for performing greener drug discovery chemistry are addressed as well as cutting edge topics like biologics discovery and continuous processing Moreover important surrounding issues such as intellectual property are included This book serves as a practical guide for both academic and industrial chemists who work across the breadth of the drug discovery discipline Ultimately readers will learn how to incorporate green chemistry strategies into their everyday workflow without slowing down their science

Biotherapeutics Lyn H. Jones, Andrew J. McKnight, 2013 Biotherapeutics are often considered to be beyond the reach of the medicinal chemist but this book demonstrates that chemistry has an essential role in the future success of this area

Emerging Drugs and Targets for Parkinson's Disease Ana Martinez, Carmen Gil, 2013 This exemplary new book reviews some of the most outstanding examples of new drugs currently in pharmaceutical development or new targets under the validation process to try to reach the Parkinson's drug market in the next few years as potential disease modifying drugs

Allosterism in Drug Discovery Dario Doller,2016-11-24 Although the concept of allosterism has been known for over half a century its application in drug discovery has exploded in recent years The emergence of novel technologies that enable molecular level ligand receptor interactions to be studied in studied in unprecedented detail has driven this trend This book written by the leaders in this young research area describes the latest developments in allosterism for drug discovery Bringing together research in a diverse range of scientific disciplines Allosterism in Drug Discovery is a key reference for academics and industrialists interested in understanding allosteric interactions The book provides an in depth review of research using small molecules as chemical probes and drug candidates that interact allosterically with proteins of relevance to life sciences and human disease Knowledge of these interactions can then be applied in the discovery of the novel therapeutics of the future This book will be useful for people working in all disciplines associated with drug discovery in

academia or industry as well as postgraduate students who may be working in the design of allosteric modulators

Computational Approaches to Nuclear Receptors Pietro Cozzini, Glen E. Kellogg, 2012 Nuclear receptors NR are ligand induced activated transcription factors that are involved in numerous biological processes Since the 1990 s when the first structures were determined by means of X ray diffraction the number of NR structures has increased considerably Moreover several omics projects genomics pharmcogenomics and proteomics have opened up great opportunities for the discovery of new targets the characterization of abnormal protein patterns the selection of tailored drugs and the evaluation of drug efficacy even with a lack of structural data Furthermore structure based drug design computational methods for in silico screening and nanobiotechnology based tools are simplifying this time consuming and money intensive research of lead compounds and possibly new drugs Biological interactions such as those that occur between a protein and ligand are concerted events where flexible molecules interact Thus understanding flexibility of large molecules or biological complexes is of primary importance to help define the right model to approximate the reality for drug discovery virtual screening food safety analysis etc NRs are known as flexible targets with many structural similarities in particular for their Ligand Binding Domain these similarities could be assumed to share behavioural qualities that belong to this class of compounds Thus to supply a possible complete and exhaustive answer to questions about the behaviour of NRs their interactions with new potential drugs endocrine disruptors such as animal and human food toxins food additives or industry residuals it is mandatory to approach the problem from a different point of view a molecular modelling approach steered synthesis and in vitro and in vivo tests etc The aim of this book is to provide a state of the art review on investigations into Nuclear Receptors

Drug Discovery for Schizophrenia Tatiana Lipina, John Roder, 2015-04-28 Since the pioneering pharmacotherapy for treatment of schizophrenia in the 1950s by antipsychotics only a few major innovations have been made pointing to a general stagnation in the field of pharmacology of schizophrenia Drug Discovery for Schizophrenia covers new insights in the field of schizophrenia with an aim to advance the understanding of scientists and clinicians in this area and to fuel drug discovery. The book outlines a change in the way schizophrenia is treated by moving away from focusing only on treating symptoms in patients Innovative drugs emerge from deeper comprehension of the pathological processes that emerge earlier in life hence providing strategies for preventative therapy to alter the course of this mental disorder Amongst other current topics the book covers new findings in genetics and epigenetics progress in animal models for schizophrenia and the usage of induced pluripotent stem cells The combination of these important areas benefit psychiatric neuroscience filling the gaps in the knowledge of neurobiology of schizophrenia and providing novel perspectives for future drug development **Compendium of Drug Degradation Pathways** Min Li,2025-11-12 Provides accurate and current information on drug degradation pathways Understanding the degradation chemistry of pharmaceuticals is essential for drug formulation stability testing and regulatory compliance Compendium of Drug Degradation Pathways presents a detailed analysis of the degradation pathways

of approximately 350 widely used prescription and over the counter drugs making it an indispensable reference for formulation and analytical scientists Drug stability and impurity characterization play a critical role in pharmaceutical research and development as degradation can impact efficacy safety and regulatory approval Structured alphabetically this compendium organizes degradation data into concise monographs each summarizing a drug s chemical structure degradation pathways and stability considerations By collating information from regulatory guidelines scientific literature and real world drug formulations Dr Min Lin provides formulation chemists regulatory scientists and medicinal chemists with a clear understanding of degradation mechanisms under practical storage conditions Provides guidance on real world drug degradation under long term stability conditions Summarizes critical stability data for formulation and analytical scientists working in drug development and manufacturing Offers valuable insights into drug metabolism and in vivo degradation linked to potential toxicities Uses a systematic and organized approach grouping drugs by therapeutic categories and structural similarities Includes a dedicated introduction on regulatory perspectives impurity characterization and stress testing methodologies With increasing regulatory scrutiny on drug quality and safety Compendium of Drug Degradation Pathways is a critical reference for professionals in pharmaceutical sciences intellectual property law and regulatory agencies reviewing Chemistry Manufacturing and Controls CMC sections of NDAs and ANDAs **Discovery** Brian Cox, Martin Gosling, 2014-09-03 Ion channel drug discovery is a rapidly evolving field fuelled by recent but significant advances in our understanding of ion channel function combined with enabling technologies such as automated electrophysiology The resurgent interest in this target class by both pharmaceutical and academic scientists was clearly highlighted by the over subscribed RSC BPS Ion Channels as Therapeutic Targets symposium in February 2009 This book builds on the platform created by that meeting covering themes including advances in screening technology ion channel structure and modelling and up to date case histories of the discovery of modulators of a range of channels both voltage gated and non voltage gated channels The editors have built an extensive network of contacts in the field through their first hand scientific experience collaborations and conference participation and the organisation of the meeting at Novartis Horsham increased the network enabling the editors to draw on the experience of eminent researchers in the field Interest and investment in ion channel modulation in both industrial and academic settings continues to grow as new therapeutic opportunities are identified and realised for ion channel modulation This book provides a reference text by covering a combination of recent advances in the field from technological and medicinal chemistry perspectives as well as providing an introduction to the new ion channel drug discoverer The book has contributions from highly respected academic researchers industrial researchers at the cutting edge of drug discovery and experts in enabling technology This combination provides a complete picture of the field of interest to a wide range of readers *Pain Therapeutics* Charlotte Allerton, 2013 This book presents a contemporary review of the field of pain therapeutics including the historical medicines which still dominate

standard of care treatments as well as the new mechanisms and combinations reformulations that have dominated the regulatory approvals over the last decade In addition this book provides a deep review of the key biological mechanisms currently under investigation for their utility into the treatment of pain such as ion channels opiates and others Additional discussion highlights the current challenges of pain research covering a range of topics from difficulties in identifying new targets and pre clinical models to the current regulatory and commercial challenges This background sets the scene for recent scientific developments in pain research such as the drive for genetic validation of targets and the derivation of human cell platforms from stem cells Finally the book covers the discovery and development stories of two pain products approved in the last decade These case studies for Lyrica and the Butrans patch will give insight into the discovery and development challenges and successes for both an oral and non oral product Epigenetics for Drug Discovery Nessa Carey, 2015-11-20 Epigenetics is one of the fastest moving fields in drug discovery with almost every large pharmaceutical company and a substantial number of biotechnology companies targeting epigenetic processes to treat diseases ranging from cancer to Huntington's disease and from inflammation to sickle cell anaemia. The book is structured in three main sections The first section introduces epigenetics and explain its importance at both a phenomenological and molecular level The second section goes on to review how each of the big breakthroughs in drug discovery in this field have developed with a strong emphasis on case histories The final section highlights the ongoing challenges in creating safe and efficacious epigenetic drugs Written and edited by experts within the field from both industry and academia this book provides an invaluable guide to this developing field for medicinal chemists working in academia and in the pharmaceutical industry

Synthetic Methods in Drug Discovery David C. Blakemore, Paul M. Doyle, Yvette M. Fobian, 2016 The number of available synthetic methods can be overwhelming In order to create novel motifs and templates which confer new and potentially valuable drug like properties it is important to know which synthetic methodologies will give the best results Similarly which methodologies are used to progress potential drug candidates from leads through the development process What are the current industrial research problems and how can they be resolved in an industrial setting This book highlights key methods that have real impact in drug discovery and facilitate delivery of drug molecules Synthetic Methods in Drug Discovery Volume 1 focuses on the hugely important area of transition metal mediated methods used in industry Current methods of importance such as the Suzuki Miyaura coupling Buchwald Hartwig couplings and CH activation are discussed In addition exciting emerging areas such as decarboxylative coupling and the uses of iron and nickel in coupling reactions are also covered This book provides both academic and industrial perspectives on some key reactions giving the reader an excellent overview of the techniques used in modern synthesis Reaction types are conveniently framed in the context of their value to industry and the challenges and limitations of methodologies are discussed with relevant illustrative examples Edited and authored by leading scientists from both academia and industry this book will be a valuable reference for all chemists

involved in drug discovery as well as postgraduate students in medicinal chemistry Fragment-Based Drug Discovery Steven Howard, Chris Abell, 2015-07-03 Fragment based drug discovery is a rapidly evolving area of research which has recently seen new applications in areas such as epigenetics GPCRs and the identification of novel allosteric binding pockets The first fragment derived drug was recently approved for the treatment of melanoma It is hoped that this approval is just the beginning of the many drugs yet to be discovered using this fascinating technique. This book is written from a Chemist's perspective and comprehensively assesses the impact of fragment based drug discovery on a wide variety of areas of medicinal chemistry. It will prove to be an invaluable resource for medicinal chemists working in academia and industry as well as anyone interested in novel drug discovery techniques Cardiovascular and Metabolic Disease Philip Peplow, James Adams, Tim Young, 2015-05-22 Cardiovascular and metabolic diseases remain the number one cause of death in developed countries and their prevalence is increasing rapidly in developing nations. This book brings together the recent information on these disorders and the links that exist between them in order to provide a complete picture of drug discovery for these conditions The main three sections comprehensively discuss obesity hypertension and cardiovascular disease and diabetes in turn following an introduction to the molecular links between them The final chapter provides perspectives on future directions of the field Chapters are contributed by leaders in the field from academia and industry and cover biomarkers risk factors gene environment interactions therapies and the various types of animal models that have been used to study each disease Case studies describing the implementation of animal models in drug development further enhance the book s usefulness as a comprehensive guide to this important therapeutic area Providing a full picture of the various types of animal models that have been used to study obesity hypertension and insulin resistance with recent case studies this book provides a valuable resource for medicinal chemists and clinicians working in these disease areas Macrocycles in Drug Discovery Jeremy I Levin, 2015 This series provides a comprehensive resource for postgraduate students and for scientists in academia or industry wanting to learn topics outside their own areas of expertise **Traditional Chinese Medicine** James David Adams (Jr.), Eric J. Lien (ed.), 2013 A volume that will provide a mechanism based approach to understanding Chinese medicine for both Western and Eastern scientists **Drug Transporters** Glynis Nicholls, Kuresh Youdim, 2016 Understanding and quantifying the effects of membrane transporters within the human body is essential for modulating drug safety and drug efficacy In this first volume on Drug Transporters the current knowledge and techniques in the transporter sciences and their relations to drug metabolism and pharmacokinetics are comprehensively reviewed The second volume of the book is specifically dedicated to emerging science and technologies highlighting potential areas for future advances within the drug transporter field The topics covered in both volumes ensure that all relevant aspects of transporters are described across the drug development process from in silico models and preclinical tools through to the potential impact of transporters in the clinic Contributions are included from expert leaders in the field at the bench industrial scientists

renowned academics and international regulators Case studies and emerging developments are highlighted together with the merits and limitations of the available methods and tools and extensive references to reviews on specific in depth topics are also included for those wishing to pursue their knowledge further As such this text serves as an essential handbook of information for postgraduate students academics industrial scientists and regulators who wish to understand the role of transporters in absorption distribution metabolism and excretion processes In addition it is also a useful reference tool on the models and calculations necessary to predict their effect on human pharmacokinetics and pharmacodynamics

Carbohydrates in Drug Design and Discovery Jesús Jímenez-Barbero, F. Javier Cañada, Sonsoles Martin-Santamaría, 2015-04-10 In recent years there has been increasing evidence of the importance of carbohydrates and glycoconjugates in biomedical applications and the use of synthetic ligands based on carbohydrates as drugs has received much attention Focussing on drug discovery from key targets and placing an emphasis on the multi disciplinary approaches necessary to challenge these issues this book comprehensively covers the new and recent discoveries in the area of carbohydrate drug discovery Carbohydrates in Drug Design and Discovery is split into five sections beginning with a introduction and perspective on the current market The book then goes on to discuss new synthetic methods in glycobiology the use of glycobiology in chemical biology and glycobiology in drug discovery Providing a worldwide perspective on this broad area and providing examples of therapeutics already developed using these methods this book provides a comprehensive introduction discussion and update on this fast developing field for medicinal chemists and biochemists working in industry and academia Drug Transporters Volume 2 Dr Glynis Nicholls ,Dr Kuresh Youdim, 2016 Understanding and quantifying the effects of membrane transporters within the human body is essential for modulating drug safety and drug efficacy. The first volume comprehensively reviewed current knowledge and techniques in the transporter sciences and their relations to drug metabolism and pharmacokinetics In this second volume on Drug Transporters emphasis is placed on emerging sciences and technologies highlighting potential areas for future advances within the drug transporter field The topics covered in both volumes ensure that all relevant aspects of transporters are described across the drug development process from in silico models and preclinical tools through to the potential impact of transporters in the clinic Contributions are included from expert leaders in the field at the bench industrial scientists renowned academics and international regulators Case studies and emerging developments are highlighted together with the merits and limitations of the available methods and tools and extensive references to reviews on specific in depth topics are also included for those wishing to pursue their knowledge further As such this text serves as an essential handbook of information for postgraduate students academics industrial scientists and regulators who wish to understand the role of transporters in absorption distribution metabolism and excretion processes In addition it is also a useful reference tool on the models and calculations necessary to predict their effect on human pharmacokinetics and pharmacodynamics

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