

Heterocyclic Chemistry in Drug Discovery



Heterocyclic Chemistry In Drug Discovery

Harish C. Upadhyay



Heterocyclic Chemistry In Drug Discovery:

Heterocyclic Chemistry in Drug Discovery Jie Jack Li, 2013-04-26 Enables researchers to fully realize the potential to discover new pharmaceuticals among heterocyclic compounds Integrating heterocyclic chemistry and drug discovery this innovative text enables readers to understand how and why these two fields go hand in hand in the effective practice of medicinal chemistry Contributions from international leaders in the field review more than 100 years of findings explaining their relevance to contemporary drug discovery practice Moreover these authors have provided plenty of practical guidance and tips based on their own academic and industrial laboratory experience helping readers avoid common pitfalls *Heterocyclic Chemistry in Drug Discovery* is ideal for readers who want to fully realize the almost limitless potential to discover new and effective pharmaceuticals among heterocyclic compounds the largest and most varied family of organic compounds The book features Several case studies illustrating the role and application of 3 4 5 and 6 heterocyclic ring systems in drug discovery Step by step descriptions of synthetic methods and practical techniques Examination of the physical properties for each heterocycle including NMR data and quantum calculations Detailed explanations of the complexity and intricacies of reactivity and stability for each class of heterocycles *Heterocyclic Chemistry in Drug Discovery* is recommended as a textbook for organic and medicinal chemistry courses particularly those emphasizing heterocyclic chemistry The text also serves as a guide for medicinal and process chemists in the pharmaceutical industry offering them new insights and new paths to explore for effective drug discovery

Applications of Heterocycles in the Design of Drugs and Agricultural Products, 2021-06-09 *Applications of Heterocycles in the Design of Drugs and Agricultural Products* Volume 134 in the *Advances in Heterocyclic Chemistry* series represents the most definitive series in the field one of great importance to organic chemists polymer chemists and many biological scientists Chapters in this updated volume cover Hydroxy azoles as carboxylic acid bioisosteres Cyclic sulfoxides and sulfones in drug design Thiazoles and topological control in drug design Applications of fused pyrrolidine 3 3 0 heterocycles in drug design 1 4 Disubstituted and 1 4 5 trisubstituted 1 2 3 triazoles in drug discovery and development from the flask to the clinic and Conformationally restricted 3 2 2 and 3 2 1 3 azabicyclic diamines Because biology and organic chemistry increasingly intersect the associated nomenclature is being used more frequently in explanations Written by established authorities in the field from around the world this comprehensive review combines descriptive synthetic chemistry and mechanistic insight to yield an understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds Considered the definitive serial in the field of heterocyclic chemistry Serves as the go to reference for organic chemists polymer chemists and biological scientists Provides the latest comprehensive reviews written by established authorities in the field Combines descriptive synthetic chemistry and mechanistic insight to enhance understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds

Heterocyclic Chemistry - New Perspectives Rashid Ali, 2024-12-19 Heterocyclic compounds are one of the

most prevalent groups of organic molecules playing crucial roles in a variety of applications From medicinal chemistry and organic synthesis to supramolecular chemistry agrochemicals biology and materials science heterocycles are integral to our daily lives and scientific advancement This book presents a comprehensive exploration of the latest applications and research in heterocyclic systems It provides readers with insights into new and impactful frontiers within this fascinating field

Advances in Heterocyclic Chemistry, 2015-08-12 *Advances in Heterocyclic Chemistry* is the definitive series in the field one of great importance to organic chemists polymer chemists and many biological scientists Because biology and organic chemistry increasingly intersect the associated nomenclature also is being used more frequently in explanations Written by established authorities in the field from around the world this comprehensive review combines descriptive synthetic chemistry and mechanistic insight to yield an understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds Considered the definitive serial in the field of heterocyclic chemistry Serves as the go to reference for organic chemists polymer chemists and many biological scientists Provides the latest comprehensive reviews written by established authorities in the field Combines descriptive synthetic chemistry and mechanistic insight to enhance understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds *Progress in Heterocyclic Chemistry* Gordon Gribble, John A. Joule, 2012-12-31 *Progress in Heterocyclic Chemistry* PHC an ongoing reference work on heterocyclic chemistry is published with the active involvement of The International Society of Heterocyclic Chemistry ISHC whose aim is to promote heterocyclic chemistry in particular by serving as the primary sponsoring agency for the ISHC Congress a large biannual meeting attracting up to a thousand participants Recognized as the premiere review of heterocyclic chemistry Contributions from leading researchers in the field Systematic survey of the important 2011 heterocyclic chemistry literature *Advances in Heterocyclic Chemistry* Alan R. Katritzky, 2011-02-17 Established in 1960 *Advances in Heterocyclic Chemistry* is the definitive serial in the area one of great importance to organic chemists polymer chemists and many biological scientists Written by established authorities in the field the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties Provides up to date material on a fast growing and highly topical subject area Contains the latest research covering a wide variety of heterocyclic topics Written by leading authorities and designed as a handbook for students and industry and academic researchers *Imidazole-Based Drug Discovery* Shikha Agarwal, 2021-12-02 *Imidazole Based Drug Discovery* covers all categories of imidazole and its derivatives synthesis pharmacological applications and drug based studies Imidazole scaffolds act as a channel between organic synthesis and medicinal chemistry and compel researchers to explore new drug candidates This book provides detailed coverage of several greener synthetic protocols and pharmacological applications of imidazole derivatives that are useful to researchers working on designing more promising clinical lead compounds with this scaffold It also includes information on past decades of research on the synthesis and

biological applications of imidazole derivatives This is an ideal resource for researchers in organic chemistry both in academic and industrial settings as well as postgraduates in chemistry and medicinal chemistry Reviews the most current developments and future perspectives of imidazole on different disease therapies to achieve the ultimate goal of disease eradication Discusses the role of imidazole in contemporary science technological innovation drug development critical challenges and future research directions Covers emerging trends on different eco benign pathways to synthesize imidazole derivatives for the development of simpler synthetic protocols *Heterocycles in Life and Society* Alexander F.

Pozharskii, Anatoly T. Soldatenkov, Alan R. Katritzky, 2011-06-07 *Heterocycles in Life and Society* is an introduction to the chemistry of heterocyclic compounds focusing on their origin and occurrence in nature biochemical significance and wide range of applications Written in a readable and accessible style the book takes a multidisciplinary approach to this extremely important area of organic chemistry Topics covered include an introduction to the structure and properties of heterocycles the key role of heterocycles in important life processes such as the transfer of hereditary information how enzymes function the storage and transport of bioenergy and photosynthesis applications of heterocycles in medicine agriculture and industry heterocycles in supramolecular chemistry the origin of heterocycles on primordial Earth and how heterocycles can help us solve 21st century challenges For this second edition *Heterocycles in Life and Society* has been completely revised and expanded drawing on a decade of innovation in heterocyclic chemistry The new edition includes discussions of the role of heterocycles in nanochemistry green chemistry combinatorial chemistry molecular devices and sensors and supramolecular chemistry Impressive achievements include the creation of various molecular devices the recording and storage of information the preparation of new organic conductors and new effective drugs and pesticides with heterocyclic structures Much new light has been thrown on various life processes while the chemistry of heterocycles has expanded to include new types of heterocyclic structures and reactions and the use of heterocyclic molecules as ionic liquids and proton sponges *Heterocycles in Life and Society* is an essential guide to this important field for students and researchers in chemistry biochemistry and drug discovery and scientists at all levels wishing to expand their scientific horizon **Modern Green**

Chemistry and Heterocyclic Compounds Ravindra S. Shinde, A. K. Haghi, 2020-03-31 This book covers the general properties of heterocyclic compounds and methods for their preparation to use in applications of green chemistry Heterocyclic compounds are an important class of molecules in organic chemistry due to their presence in natural products and their use in pharmaceuticals and new materials They also play a vital role in the metabolism of living cells Heterocyclic compounds have a wide range of applications in agrochemicals pharmaceuticals veterinary products etc This research oriented volume is ideal for readers who want to fully realize the almost limitless potential of heterocyclic compounds and to discover new and effective pharmaceuticals among heterocyclic compounds the largest and most varied family of organic compounds The book features several case studies and step by step descriptions of synthetic methods and practical

techniques It also serves as a guide for chemists offering them new insights and new paths to explore for effective drug discovery

Advances in Antifungal Drug Development Nikhat Manzoor,2024-08-29 This book explores the antifungal properties of natural products and reviews their antifungal mechanism An introductory chapter illustrates the various fungal pathogenic species common fungal diseases and general mechanisms of action of various antifungal classes including natural products The book comprises seven sections and each section contains chapters on the efficacy and antifungal mode of action of plant extracts essential oils natural compounds their derivatives and plant based nanoparticles A section summarizes the antifungal efficacy of compounds derived from sources other than plants like microbes Besides compound toxicity the book explores the antifungal mode of action and efficacy against the virulence and pathogenicity of fungal pathogens like Candida Aspergillus Cryptococcus Histoplasma and other pathogenic fungi Further the book also describes recent advancements in the discovery of novel drug targets and therapeutic strategies that are non toxic and more efficacious for combating drug resistance This book is an invaluable source for researchers working in the field of fungal biochemistry anti microbial and anti bacterial and undergraduate and postgraduate students of microbiology and pharmacology

Aromatic C(sp²)-H Dehydrogenative Coupling Reactions Bagher Eftekhari-Sis,2019-10-31 This comprehensive text covers the research and development trends in the growing field of aromatic C H dehydrogenative coupling reactions leading to different types of heterocycles The author provides answers to how these coupling reactions occur what kinds of heterocycles are synthesized and what their advantages are The palladium rhodium iridium copper cobalt ruthenium and ferric catalyzed aromatic C sp² H dehydrogenative cross coupling reactions are described in detail A useful reference source for researchers and graduates in the field of heterocyclic chemistry and transition metal catalyzed dehydrogenative coupling reactions Features Comprehensive volume on the synthesis of benzo heterocycles via aromatic C sp² H bond activation Heterocycles are of paramount importance to medicinal chemistry and drug discovery Provides a comprehensive literature survey on the construction of heterocycles Reaction procedures and mechanistic explanations are included which will appeal to those in fine chemicals and pharmaceutical companies

Drug Synthesis Book Set Jie Jack Li,Douglas S. Johnson,2015-11-23 This set presents the authoritative and acclaimed Drug Synthesis books edited by Jie Jack Li and Douglas Johnson Contemporary Drug Synthesis The Art of Drug Synthesis Modern Drug Synthesis and Innovative Drug Synthesis This book set will be enormously useful to pharmaceutical industry labs research scientists in lead optimization and process development and graduate students and courses in organic chemistry synthetic organic chemistry heterocyclic chemistry medicinal chemistry and drug synthesis courses

Nanocatalysis Keshav Lalit Ameta,Ravi Kant,2022-07-08 The field of nanocatalysis is undergoing rapid development Nanocatalysis can help in designing catalysts with excellent activity greater selectivity and high stability Their properties can easily be tuned by tailoring the size shape and morphology of the particular nanomaterial Exhibiting both homogeneous and heterogeneous catalytic properties nanocatalysts allow for rapid and selective chemical

transformations with the benefits of excellent product yield and ease of catalyst separation and recovery Nanocatalysis Synthesis of Bioactive Heterocycles reviews the catalytic performance and the synthesis and characterization of nanocatalysts examining the current state of the art and pointing the way towards new avenues of research specially synthesis of bioactive heterocycles Top researchers summarize synthetic methodologies for the synthesis of bioactive heterocycles using a nanocatalytic framework The catalytic performance and the synthesis and characterization of nanocatalysts are reviewed State of the art methods and new and emerging applications of nanocatalysts in the synthesis of biologically active heterocycles are detailed Additional features include Focuses on designing and synthesizing nanocatalysts specifically for the synthesis of different bioactive heterocycles Demonstrates how nanocatalysis can produce catalysts with excellent activity greater selectivity and high stability Explores tuning catalysts properties by tailoring the size shape and morphology of a nanomaterial Offers the reader insights into the field of nanoscience via nanocatalysis Nanocatalysis Synthesis of Bioactive Heterocycles is a must read for researchers in organic chemistry medicinal chemistry and biochemistry **Key Heterocyclic Cores for Smart Anticancer Drug-Design Part II** Rajesh Kumar Singh,2022-09-02

This book provides an update on heterocyclic compounds that serve as key components of anti cancer agents administered in pre clinical settings Many of the compounds highlighted in the book are being actively investigated for the bioactive properties against a range of cancer cell lines There is potential for heterocyclic compounds to design agents that can target specific molecules to treat different types of cancers Chapters are contributed by experts in pharmaceutical chemistry and are written to give a general overview of the topic to readers involved in all levels of research and decision making in pharmaceutical chemistry and anti cancer drug design Part 2 of the book set covers these topics Anticancer targets for heterocyclic lead compounds Coumarin hybrids for cancer treatments Progress in nitrogen and sulphur based heterocyclic compounds for their anticancer activity Imidazole as an anticancer heterocyclic ring Morpholine for profiling anticancer lead compounds Natural products as anticancer agents Flow Chemistry for the Synthesis of Heterocycles Upendra K.

Sharma,Erik V. Van der Eycken,2018-06-20 This volume provides an overview of recent developments and scope in the use of flow chemistry in relevance to heterocyclic synthesis The heterocyclic ring is the most prominent structural motif in the vast majority of natural products as well as pharmaceutical compounds since this facilitates tuneable interactions with the biological target besides conferring a degree of structural and metabolic stability In recent times flow chemistry has heralded a paradigm shift in organic synthesis as it offers several unique advantages over conventional methods like drastic acceleration of sluggish transformations enhanced yields cleaner reactions etc and is gradually gaining a lot of attention among organic chemist worldwide Given the importance of heterocycles in natural products medicinal chemistry and pharmaceuticals this is a well warranted volume and complements the previous volume of Topics in Organometallic Chemistry Organometallic Flow Chemistry This volume offers a versatile overview of the topic besides discussing the recent

progress in the flourishing area of flow chemistry in relevance to heterocyclic chemistry it will also help researchers to better understand the chemistry behind these reactions This in turn provides a platform for future innovations towards the designing of novel transformations under continuous flow Thus this volume will appeal to both the novices in this field as well as to experts in academia and industry Organic Synthesis Belakatte Parameshwarappa Nandeshwarappa,2020-05-27 The book Organic Synthesis A Nascent Relook is a compendium of the recent progress in all aspects of organic chemistry including bioorganic chemistry organo metallic chemistry asymmetric synthesis heterocyclic chemistry natural product chemistry catalytic green chemistry and medicinal chemistry polymer chemistry as well as analytical methods in organic chemistry The book presents the latest developments in these fields The chapters are written by chosen experts who are internationally known for their eminent research contributions Organic synthesis is the complete chemical synthesis of a target molecule In this book special emphasis is given to the synthesis of various bioactive heterocycles Careful selection of various topics in this book will serve the rightful purpose for the chemistry community and the industrial houses at all levels

Progress in Drug Research Bijoy Kundu, Sanjay K. Khare, Vishnu Ji Ram, Atul Goel, Berend Olivier, Willem Soudijn, Ineke van Wijngaarden, Jacob Szmuszkowicz, Q. May Wang, 2012-12-06 **Phytomolecules as a Source for Drug Discovery** Harish C. Upadhyay, 2025-04-02 This book provides a comprehensive knowledge of medicinal plants phytomolecules and their derivatives playing a crucial role in the area of antimicrobials By providing a comprehensive overview of the latest research and developments in phytochemistry and pharmacology the book underscores the significance of medicinal plants as a rich and sustainable source of novel antimicrobial agents The book is intended as a valuable resource for researchers pharmacologists and healthcare professionals seeking to develop effective and eco friendly solutions to combat antibiotic resistance and emerging infectious diseases *Progress in Heterocyclic Chemistry* Justin M. Lopchuk, 2013-09-06 The synthesis and reactions of pyrroles indoles carbazoles and related fused heterocyclic ring systems from the year 2012 are reviewed in this monograph Pyrroles and indoles are treated in separate sections ring forming reactions are discussed by bond disconnection Other sections include reactivity of the parent rings reactions of side chains C H activation organometallic reactions and examples in total synthesis *Fused Pyrimidine-Based Drug Discovery* Raj Kumar, 2022-10-08 Fused Pyrimidine Based Drug Discovery covers all categories of fused pyrimidines along with pharmacological and in silico studies It covers the chemistry and biological activities as well as the design of novel fused pyrimidine scaffolds N Heterocyclic scaffolds are found in most known drug candidates and are of interest to medicinal and organic chemists to design synthesize and evaluate their biological properties A variety of fused pyrimidine molecules have been synthesized and extracted from natural resources and are found to exhibit various biological activities such as antifolates anticancer agents analgesics antimetabolites CNS active agents and many more Some of these scaffolds like purines are also known to have involvement in biological processes and are part of the framework of genetic material This book focuses on the classification

structural chemistry and chemical and physical properties along with various approaches for their synthesis This book is ideal for researchers in organic chemistry both in academic and industrial settings postgraduates in chemistry and medicinal chemistry Covers US FDA approved fused pyrimidine containing drugs and their analyses Comprises classification based upon fusion of carbocyclic heterocyclic rings with a pyrimidine ring and features their synthetic schemes approaches and strategies Includes new fused pyrimidine scaffolds allowing the researcher to predict the mechanisms involved in their synthesis Covers fused pyrimidine containing bioactive compounds from the natural sources Covers in silico studies of known fused pyrimidines and Structure Activity Relationship SAR which will encourage the development of new or modified existing scaffolds with specific biological activities

The Enigmatic Realm of **Heterocyclic Chemistry In Drug Discovery**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Heterocyclic Chemistry In Drug Discovery** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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