Synthetic Approaches To The New Drugs Approved During 2015

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HURLEY GABRIELLE

New Synthetic Approaches Towards the Synthesis of Morphine Elsevier
Carbohydrates in Drug Discovery and Development: Synthesis and Applications examines recent and notable developments in the synthesis, biology, therapeutic, and biomedical applications of carbohydrates, which is considered to be a highly promising area of research in the field of medicinal chemistry. Their role in several important biological processes, notably energy storage, transport, modulation of protein function, intercellular adhesion, malignant transformation, signal transduction, viral, and bacterial cell surface recognition formulate the carbohydrate systems to be an exceedingly considerable scaffold for the development of new chemical entities of pharmacological importance. In addition to their easy accessibility, high functionality and chiralpool characteristics are the few additional fascinating structural features of carbohydrates, which further enhance their utilities and thus they have been able to attract chemists and biologists toward harnessing these properties for the past several decades. This book covers an advanced aspect of carbohydrate-based molecular scaffolding, starting with a general introduction followed by a detailed discussion about the impact of diverse carbohydrate-containing molecules of great therapeutic values and their impact on drug discovery and development. The topics covered in this book include the significance of heparin mimetics as the possible tools for the modulation of biology and therapy, chemistry and bioactivities of C-glycosylated compounds, inositols, iminosugars, KDO, sialic acids, glycohybrids, macrocycles, plant oligosaccharides, anti-bacterial and anti-cancer vaccines, antibiotics, and more. • Presents a practical and detailed overview of a wide range of carbohydrate systems including KDO, sialic acids, inositols, iminosugars, etc relevant for drug discovery and development. • Highlights the use of functionalized carbohydrates as synthons for the construction of various systems. • Covers recent developments in the synthesis of various glycohybrid molecules and vaccines. • Highlights the significance of heparin mimetics as tools for the modulation of biology. • Provides an impact of glycan microarrays and carbohydrate– protein interaction.
I: Synthetic Approaches to Cephalosporin C Analogs. II: Peptide Chemistry: New Degradative and Synthetic Procedures Springer Science & Business Media
Cyclic Polymers (Second Edition) reviews the many recent advances in this rapidly expanding subject since the publication of the first edition in 1986. The preparation, characterisation, properties and applications of a wide range of organic and inorganic cyclic oligomers and polymers are described in detail, together with many examples of catenanes and rotaxanes. The importance of large cyclics in biological chemistry and molecular biology is emphasised by a wide coverage of circular DNA, cyclic peptides and cyclic oligosaccharides and polysaccharides. Experimental techniques and theoretical aspects of cyclic polymers are included, as well as examples of their uses such as ring opening polymerisation reactions to give commercially important materials. This book covers a wide range of topics which should be of interest to many scientific research workers (for example, in polymer science, chemistry and molecular biology), as well as providing a reference text for undergraduate and graduate students.
Comprehensive Studies on Some Fused Heterocycles John Wiley & Sons
Chemistry and chemical engineering have changed significantly in the last decade. They have broadened their scopeâ€"into biology, nanotechnology, materials science, computation, and advanced methods of process systems engineering and controlâ€"so much that the programs in most chemistry and chemical engineering departments now barely resemble the classical notion of chemistry. Beyond the Molecular Frontier brings together research, discovery, and invention across the entire spectrum of the chemical sciencesâ€"from fundamental, molecular-level chemistry to large-scale chemical processing technology. This reflects the way the field has evolved, the synergy at universities between research and education in chemistry and chemical engineering, and the way chemists and chemical engineers work together in industry. The astonishing developments in science and engineering during the 20th century have made it possible to dream of new goals that might previously have been considered unthinkable. This book identifies the key opportunities and challenges for the chemical sciences, from basic research to societal needs and from terrorism defense to environmental protection, and it looks at the ways in which chemists and chemical engineers can work together to contribute to an improved future.
Green Synthetic Approaches for Biologically Relevant Heterocycles John Wiley & Sons
Highlighting 15 selected chiral structures, which represent candidate or marketed drugs, and their chemical syntheses, the authors acquaint the reader with the fascinating achievements of synthetic and medicinal chemistry. The book starts with an introduction treating the discovery and development of a new drug entity. Each of the 15 subsequent chapters presents one of the target structures and begins with a

description of its biological profile as well as any known molecular mechanisms of action, underlining the importance of its structural and stereochemical features. This section is followed by detailed discussions of synthetic approaches to the chiral target structure, highlighting creative ideas, the scaling-up of laboratory methods and their replacement by efficient modern technologies for large-scale production. Nearly 60 synthetic reactions, most of them stereoselective, catalytic or biocatalytic, as well as chiral separating methodologies are included in the book. Vitomir Sunjic and Michael J. Parnham provide an invaluable source of information for scientists in academia and the pharmaceutical industry who are actively engaged in the interdisciplinary development of new drugs, as well as for advanced students in chemistry and related fields.

Synthetic Inorganic Chemistry Royal Society of Chemistry

A comprehensive overview of synthetic strategies for nonaromatic nitrogen heterocycles Nitrogen heterocycles are extremely widely distributed in nature, as well as in synthetic substances found in pharmaceuticals, agrochemicals, and materials chemistry. With new structures and medicines that include these structures emerging yearly, and a vast new journal literature to describe them, anyone who wants to be effective in R&D needs to easily access a synthesis of the latest research. This state-of-the-art survey explores recent developments in the most widely used reactions, as well as completely new ones. Highlights the major modern synthetic methods known to obtain nonaromatic nitrogen heterocycles, and their practical applications Topics include enantioselective synthesis and catalysis, photocatalysis, biocatalysis, microwave-assisted synthesis, reactions of oximes and nitrones, and ionic liquids Discusses how to synthesize rings of specific sizes Covers sustainable synthetic approaches for obtaining salts Whether you are using nonaromatic nitrogen compounds as an academic researcher, a synthetic chemist in industry, or an advanced student, this book is an essential, up-to-date resource to support your work.

New Synthetic Approaches to Carbo- and Heterocycles from Amides and 3-amino-2H-azirines Springer Science & Business Media

Designed for undergraduate and beginning graduate courses in organic synthesis.

Synthetic Approaches to Quassin Elsevier

Green Synthetic Approaches for Biologically Relevant Heterocycles, Second Edition, Volume One: Advanced Synthetic Techniques reviews this significant group of organic compounds within the context of sustainable methods and processes, expanding on the first edition with fully updated coverage and a whole range of new chapters. Volume One explores advanced synthetic techniques, with each chapter presenting in-depth coverage of various green protocols for the synthesis of a wide variety of bioactive heterocycles that are classified on the basis of ring-size and/or the presence of heteroatoms. Techniques covered range from high pressure cycloaddition reactions and microwave irradiation to sustainable one-pot domino reactions. This updated edition is an essential resource on sustainable approaches for academic researchers, R&D professionals, and students working across medicinal, organic, natural product and green chemistry. Provides fully updated coverage of the field of greener heterocycle synthesis Includes new chapters on varied multicomponent reactions, alongside both traditional and novel approaches Presents information in an accessible style with an emphasis on sustainability

Part I, New Synthetic Approaches to Cannabinoids and Their Analogs ; Part II, Benzoannelation of Ketones Elsevier

More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles An authoritative collection of resources discussing the latest trends in the synthesis of nonaromatic nitrogen heterocycles Widely distributed in nature, nitrogen heterocycles are extremely common in synthetic substances found in pharmaceuticals, agrochemicals, and materials. The literature is evolving rapidly and explores newly emerging structures and medicines. More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles offers R&D professionals the opportunity to easily access a collection of the latest relevant research in the area. In the second two-volume set of this practical reference distinguished researcher Dr. Ana Maria M. M. Faisca Phillips delivers a collection of resources focusing on the newest and most widely applicable trends emerging in synthetic strategies for nonaromatic nitrogen heterocycles. With coverage of topics including organocatalysis, cascade reactions, flow chemistry in synthesis, cycloaddition reactions, metathesis, cross-coupling reactions, and electrochemistry, the book provides quick access to critical new avenues of synthesis. More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles: Volume 1 and 2 also offers readers: A thorough introduction to recent advances in the design and synthesis of cyclic peptidomimetics Comprehensive explorations of fused heterocycles and transition metal promoted synthesis of isoindoline derivatives Practical discussions of 1,4-diazepane ring-based systems and recent advances in the synthesis of azepane-based compounds In-depth examinations of strained aziridinium ions, asymmetric organocatalysis in alternative media, and the electrochemical synthesis of non-aromatic N-heterocycles Perfect for academic and industrial researchers in organic chemistry and synthesis, organometallic chemistry, pharmaceutical chemistry catalysis, and sustainable chemistry, More Synthetic Approaches to Nonaromatic Nitrogen Heterocycles: Volume 1 and 2 is an indispensable reference for anyone seeking an authoritative source of information on new and emerging trends in synthesis.

Synthetic Approaches to Cyclodepsipeptides Springer

Green Synthetic Approaches for Biologically Relevant Heterocycles, Second Edition, Volume Two: Green Catalytic Systems and Solvents reviews this significant group of organic compounds within the context of sustainable methods and processes, expanding on the first edition with fully updated coverage and a whole range of new chapters. Volume Two explores green catalytic systems and solvents and the techniques surrounding this approach, including metal and magnetic catalysis to organocatalysis and solid acid catalysis, cycloaddition reactions, and varied approaches using ionic liquids. This updated edition is an essential resource on sustainable approaches for academic researchers, R&D professionals, and students working across medicinal, organic, natural product and green chemistry. Provides fully updated coverage of the field with an emphasis on sustainability Highlights a range of different eco-friendly solvents and environmentally-friendly catalysts Collates the experience of a global team of expert contributors

New Synthetic Approaches to Indolizidine and Pyrrolidine Alkaloids Elsevier

The continually growing contribution of transition metal chemistry to synthetic organic chemistry is, of course, widely recognized. Equally well known is the difficulty in keeping up-to-date with the multifarious reactions and procedures that seem to be spawned at an ever-increasing rate. These can certainly be summarized on the basis of reviews under the headings

of the individual transition metals. More useful to the bench organic chemist, however, would be the opposite type of concordance based on the structural type of the desired synthetic product. This is the approach taken in the present monograph, which presents for each structural entity a conspectus of the transition metal-mediated processes that can be employed in its production. The resulting comparative survey should be a great help in devising the optimum synthetic approach for a particular goal. It is presented from an essentially practical viewpoint, with detailed direc tions interspersed in the Houben-Weyl style. The wide scope of the volume should certainly encourage synthetic organic chemists to utilize fully the range and versatility of these transition metal-mediated processes. This will certainly be a well-thumbed reference book! R. A. RAPHAEL Cambridge University v Preface In recent years an enormous amount of work has been done on the catalysis of organic reactions by various transition metal species and on the organic reactivity of organo-transition-metal compounds.

Signposts to Chiral Drugs Wiley
Building on key reactions presented in Volume 1, Synthetic Methods in Drug Discovery Volume 2 covers a range of important reaction types including organometallic chemistry, fluorination approaches and asymmetric methods as well as new and exciting areas such as Csp2-Csp3 couplings, catalytic amide bond forming reactions, hydrogen borrowing chemistry and methods to access novel motifs and monomers. This book provides both academic and industrial perspectives on 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. Moreover, key opportunities in expanding chemical space are presented, including the increasingly important syntheses that introduce three-dimensional molecular shape. 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.

Synthetic Approaches in the Search for New Antibiotics Jones & Bartlett Learning
A comprehensive overview of synthetic strategies for nonaromatic nitrogen heterocycles Nitrogen heterocycles are extremely widely distributed in nature, as well as in synthetic substances found in pharmaceuticals, agrochemicals, and materials chemistry. With new structures and medicines that include these structures emerging yearly, and a vast new journal literature to describe them, anyone who wants to be effective in R&D needs to easily access a synthesis of the latest research. This state-of-the-art survey explores recent developments in the most widely used reactions, as well as completely new ones. Highlights the major modern synthetic methods known to obtain nonaromatic nitrogen heterocycles, and their practical applications Topics include enantioselective synthesis and catalysis, photocatalysis, biocatalysis, microwave-assisted synthesis, reactions of oximes and nitrones, and ionic liquids Discusses how to synthesize rings of specific sizes Covers sustainable synthetic approaches for obtaining salts Whether you are using nonaromatic nitrogen compounds as an academic researcher, a synthetic chemist in industry, or an advanced student, this book is an essential, up-to-date resource to support your work.

Synthetic Approaches to Nonaromatic Nitrogen Heterocycles National Academies Press
Advances in Synthetic Organic Chemistry and Methods Reported in US Patents provides synthetic guidelines for preparing current and commercially significant organic compounds, derivatives, and intermediates as reported in issued US Patents. Industries surveyed include agrochemical, cosmetics and personal care products. Each entry contains extensive information such as explicit laboratory directions for preparing all chemical intermediates and characterization data. Furthermore, product optimization studies, industrial preparation, and new synthetic methods have been included for selected entries, as well as projected research directions for future product development. In Advances in Synthetic Organic Chemistry and Methods Reported in US Patents the author's practical approach enables readers to identify research and market trends, and stay up-to-date on current developments in the field. Provides synthetic guidelines for preparing current and commercially significant organic compounds, derivatives, and intermediates as reported in issued US Patents Identifies product development trends to help determine research areas Elucidates use of the US Patent and Trademark Office database

Synthetic Methods in Drug Discovery Elsevier
Synthetic Inorganic Chemistry: New Perspectives presents summaries of the work of some of the most creative researchers in the field. The book highlights the most novel approaches and burgeoning applications of synthetic inorganic chemistry in development. Topics include non-precious metals in catalysis, smart inorganic polymers, new inorganic therapeutics, new photocatalysts for hydrogen production, and more. As the first volume in the Developments in Inorganic Chemistry series, this work is a valuable resource for students and researchers working in inorganic chemistry and material science. Illustrates the scope and vitality of modern synthetic inorganic chemistry Shows the centrality of inorganic chemistry, addressing a variety of global challenges Serves to define the current, important and expanding roles of synthetic inorganic chemistry in interdisciplinary areas such as materials science, synthetic organic chemistry, homogeneous and heterogeneous catalysis

Synthetic Approaches to Nonaromatic Nitrogen Heterocycles, 2 Volume Set

New Synthetic Approaches to Cannabinoids

Synthetic Approaches to Flavipucine

New Synthetic Approaches Carbohydrates in Drug Discovery and Development

New Synthetic Approaches to Tetrahydroimidazo-(4,5,1-jk)(1,4)-benzodiazepin-2(1H)-one(TIBO) and Various Analogues