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Chiral Drugs—Guo-Qiang Lin 2011-08-08 An integrated view of chiral drugs—from concept and synthesis to pharmaceutical properties. Chirality greatly influences a drug’s biological and pharmacological properties. In an effort to achieve more predictable results from chiral drugs, the Food and Drug Administration now requires that these medicines be as pure as possible, which places great demands on drug synthesis, purification, analysis, and testing. To assist researchers in acquiring the essential knowledge to meet these rigid guidelines, Chiral Drugs focuses on three vital chiral technologies—symmetric synthesis, biocatalytic process, and chiral resolution—to offer details on the basic concepts, key developments, and recent trends in chiral drug discovery, along with: The history of chiral drugs development and industrial applications of chiral technologies A section listing twenty-five approved or advanced-trial chiral drugs that lists each drug name, chemical name and properties, a representative synthetic pathway, pharmacological characterizations, and references An interdiscipliary approach combining synthetic organic chemistry, medicinal chemistry, and pharmacology Nearly two-thirds of the drugs on today’s market are chiral drugs. Reducing and eliminating their negative characteristics is an ongoing and serious challenge for the pharmaceutical industry. With its well-balanced approach to covering each important aspect of chirality, Chiral Drugs champions important strategies for tipping the medical scale in a positive direction for the production of more effective—and safer—drugs.

The Chemical and Biological Action of Radiations. 8e Série-K. FUNABASHI 1965

The Chemical and Biological Action of Radiations-M. Haissinsky 1961

Emergency Action for Chemical and Biological Warfare Agents-D. Hank Ellison 1999-09-28 A HazMat team evacuates five square miles of a city business district in response to a chemical spill. Ten city blocks away, a police special response team forms a perimeter around an office building where a terrorist threatens the release of a deadly chemical agent. Meanwhile, paramedics administer first aid to victims exposed to a possible vesicant. In the real-life world of emergency response, nothing is more crucial to crisis personnel than quick and decisive action.

The Proteins Chemistry, Biological Activity, and Methods V2B-Hans Neurath 2012-12-02 The Proteins, Volume II: Chemistry, Biological Activity, and Methods, Part A is a nine-chapter text that explores the chemical and biological aspects of proteins. This book starts with a discussion on the occurrence, distribution, and general chemical and biochemical properties of nucleoproteins, enzymes, and respiratory proteins and toxic proteins. The subsequent chapters cover the biological importance, separation, distribution, and antibacterial activity of food proteins, such as milk, egg, and seed proteins. A chapter explores the general concepts of protein metabolism in plants. The final chapter examines the sources and the action of the protein hormones. Biochemists, physiologists, and medical researchers will find this book invaluable.

Atoms, Radiation, and Radiation Protection-James E. Turner 1995-05-10 This thoroughly updated and expanded edition features two new chapters on statistics for health physics and on environmental radioactivity, particularly concerning radon and radon daughters. Fresh material includes: a derivation of the stopping-power formula for heavy charged particles in the impulse approximation, a detailed discussion of beta-particle track structure and penetration in matter, an extensive description of the various interaction coefficients for photons, several new worked examples and additional end-of-chapter problems.

Chemistry and Biological Activity of Steroids-Jorge António Ribeiro Salvador 2020-02-26 The steroid scaffold continues to be the structural basis of new drugs for a variety of targets and diseases. Indeed, steroids interact with enzymes and receptors in a strikingly specific manner. Chemistry and Biological Activity of Steroids aims to provide an updated overview of recent advances in the medicinal chemistry of steroids. Novel synthetic methods in the steroid field, including steroid biotransformations, new steroids able to tackle steroid receptors, and steroid enzymes with clinical relevance, are critically reviewed in this book. Furthermore, the diverse physiopathological roles of oysters and their therapeutic value are also discussed.

Physico-Chemical Aspects of Drug Action-E. J. Ariëns 2013-10-22 Physico-Chemical Aspects of Drug Action, Volume 7 covers topics on drug kinetics and the overall physicochemical properties of the drug in relation therewith, and the physicochemical aspects of the drug-receptor interaction, putting emphasis on receptor mechanisms and specific properties required for certain types of drugs in this respect. The book starts with some contributions dealing with various general aspects of drug kinetics followed by some contributions dealing with the relationship between certain physicochemical properties of drug molecules and their action. The text describes the pharmacokinetics and dose-concentration relationships; the time course of the biological response to drugs; and the empirical equations for correlating biological efficiency of organic compounds. The text also describes molecular basis for the action of chemotherapeutic drugs; the structure-activity studies on sulphonamides; and the water extrusion hypothesis. The mathematical treatment of two-point attachment between drug and receptor; the molecular properties and biological activity of catecholamines and certain related compounds; and the structure-activity relationships of diarylcarbinol ethers are also considered. The book further tackles quantum mechanically-derived electronic distributions in the conformers of 2-pam; and the molecular basis for the action of certain drugs in the central nervous system.

The Organic Chemistry of Drug Design and Drug Action-Richard B. Silverman 2012-12-02 Standard medicinal chemistry courses and texts are
organized by classes of drugs with an emphasis on descriptions of their biological and pharmacological effects. This book represents a new approach based on physical and organic chemical principles and reaction mechanisms that allow the reader to extrapolate to many related classes of drug molecules. The Second Edition reflects the significant changes in the drug industry over the past decade, and includes chapter problems and other elements that make the book more useful for course instruction. New edition includes new chapter problems and exercises to help students learn, plus extensive references and illustrations. Clearly presents an organic chemist’s perspective of how drugs are designed and function, incorporating the extensive changes in the drug industry over the past ten years. Well-respected author has published over 200 articles, earned 21 patents, and invented a drug that is under consideration for commercialization.

Biological Action of Neutrons and Chemical Protection-Aleksandr Grigor’evich Sverdlov 1976

Strategies to Protect the Health of Deployed U.S. Forces-National Research Council 2000-04-21 Since Operation Desert Shield/Desert Storm, Gulf War veterans have expressed concerns about health effects that could be associated with their deployment and service during the war. Although similar concerns were raised after other military operations, the Gulf War deployment focused national attention on the potential health risks from deployment, particularly in the relationship between the presence of chemical and biological (CB) agents and other harmful agents in theater and health symptoms reported by military personnel. Strategies to Protect the Health of Deployed U.S. Forces which is one of the four two-year studies, examines the detection and tracking of exposures of deployed personnel to multiple harmful agents.

The Chemical Biology of Plant Biostimulants-Danny Geelen 2020-02-05 Introduces readers to the chemical biology of plant biostimulants. This book brings together different aspects of biostimulants, providing an overview of the variety of chemicals exploited as biostimulants, their biological activity, and agricultural applications. As different groups of biostimulants display different bioactivity and specificity, advances in biostimulant research is illustrated by different examples of biostimulants, such as humic substance, seaweed extracts, and substances with hormone-like activities. The book also reports on methods used to screen for new biostimulant compounds by exploring natural sources. Combining the expertise of internationally-renowned scientists and entrepreneurs in the area of biostimulants and biofertilisers, The Chemical Biology of Plant Biostimulants offers in-depth chapters that look at: agricultural functions and action mechanisms of plant biostimulants (PBs); plant biostimulants from seaweed; seaweed carbohydrates; and the possible role for electron shuttling capacity in PB activity on plant growth enhancement. The subject of auxins is covered next, followed closely by a chapter on plant biostimulants in vermocompost. Other topics include: exploring natural resources for biostimulants; the impact of biostimulants on whole plant and cellular levels; the impact of PBs on molecular level; and the use of plant metabolites to mitigate stress effects in crops. Provides an insightful introduction to the subject of biostimulants Discusses biostimulant modes of actions Covers microbial biostimulatory activities and biostimulant application strategies Offers unique and varied perspectives on the subject by a team of international contributors Features summaries of publications on biostimulants and biostimulant activity The Chemical Biology of Plant Biostimulants will appeal to a wide range of readers, including scientists and agricultural practitioners looking for more knowledge about the development and application of biostimulants.

Biological Interactions Of Sulfur Compounds-Stephen C. Mitchell 2003-09-02 This text focuses on the biological interactions of sulphur compounds which arise specifically from the presence of the sulphur atom within the molecule. The book opens with introductory chapters on the chemistry and biology of sulphur, before tackling the field by introducing compounds which share a common chemical combination. In general, following a description of the uses and impact upon the biological field, specific chemical characteristics and mechanisms of biological activity and structure-activity relationships where known. The toxicity of such compounds, their consequences in biochemical and clinical terms, and their mechanisms of biological interaction are then addressed.

Chemistry and Molecular Aspects of Drug Design and Action-E. A. Rekka 2008-04-28 An ever-increasing demand for better drugs, elevated safety standards, and economic considerations have all led to a dramatic paradigm shift in the way that drugs are being discovered and developed. Known as rational drug design, this contemporary process is defined by three main steps: the discovery of lead compounds, surgical manipulation to deve

First Symposium on Chemical-biological Correlation, May 26-27, 1950-National Research Council (U.S.) Chemical-Biological Coordination Center 1951

A Framework to Guide Selection of Chemical Alternatives-National Research Council 2014-10-29 Historically, regulations governing chemical use have often focused on widely used chemicals and acute human health effects of exposure to them, as well as their potential to cause cancer and other adverse health effects. As scientific knowledge has expanded there has been an increased awareness of the mechanisms through which chemicals may exert harmful effects on human health, as well as their effects on other species and ecosystems. Identification of high-priority chemicals and other chemicals of concern has prompted a growing number of state and local governments, as well as major companies, to take steps beyond existing hazardous chemical federal legislation. Interest in approaches and policies that ensure that any new substances substituted for chemicals of concern are assessed as carefully and thoroughly as possible has also burgeoned. The overarching goal of these approaches is to avoid regrettable substitutions, which occur when a toxic chemical is replaced by another chemical that later proved unsuitable because of persistence, bioaccumulation, toxicity, or other concerns. Chemical alternative assessments are tools designed to facilitate consideration of these factors to assist stakeholders in identifying chemicals that may have the greatest likelihood of harm to human and ecological health, and to provide guidance on how the industry may develop and adopt safer alternatives. A Framework to Guide Selection of Chemical Alternatives develops and demonstrates a decision framework for prioritizing potentially safer chemicals as primarily determined by human health and ecological risks. This new framework is informed by previous efforts by regulatory agencies, academic institutions, and others to develop alternative assessment frameworks that could be operationalized. In addition to hazard assessments, the framework incorporates steps for life-cycle thinking - which considers possible impacts of a chemical at all stages including production, use, and disposal - as well as steps for performance and economic assessments. The report also highlights how modern information sources such as computational modeling can supplement traditional toxicology data in the assessment process. This new framework allows the evaluation of the full range of benefits and shortcomings of substitutes, and examination of tradeoffs between these risks and factors such as product functionality, product efficacy, process safety, and resource use. Through case studies, this report demonstrates how different users in contrasting decision contexts with diverse priorities can apply the framework. This report will be an essential resource to the chemical industry, environmentalists, ecologists, and state and local governments.

James Blake, M.D.-James Blake 1955

The Discovery and Utility of Chemical Probes in Target Discovery- Paul Brennan 2020-11-25 Numerous genetic methods can be utilised to link a phenotype to a single molecular target but annotated small molecule chemical probes and even entire chemogenomic libraries are increasingly being used as a complementary approach. This book will comprehensively cover the state of the art in chemical probes and best practice for use in target discovery, illustrated throughout with examples. Ideal for students and established biochemists, the book will also cover new technologies for probe discovery, new probe modalities, the new field of probes for RNA targets and the mature field of kinase chemical probes.

Bioactive Natural Products-Goutam Brahmachari 2015-03-23 Natural compounds, which have evolved their function over millions of years, are often more efficient than man-made compounds if a specific biological activity is needed, e.g. as an enzyme inhibitor or as a toxin to kill a cancer cell. This book comprising of sixteen technical chapters, highlights the chemical characteristics of potential natural products with an intention of unravelling their pharmaceutical applicability in modern drug discovery processes. Key features: Covers the synthesis, semi-synthesis and also biosynthesis of potentially bioactive natural products Features chemical and biological advances in naturally occurring organic compounds describing their chemical transformations, mode of actions, and structure-activity relationships 40 expert scientists from around the world report their latest findings and outline future opportunities for the development of novel and highly potent drugs based on natural products operating at the interface of chemistry and biology Forward-looking: Addresses opportunities and cutting-edge developments rather than well-documented
The Proteins: Hans Neurath 1953

The Leukotrienes: Lawrence Chakrin 2012-12-02

The Proteins: Hans Neurath 1953

Alkaloids: Chemical and Biological Perspectives—S. William Pelletier 2012-12-06

Chemical and Biological Terrorism—Committee on R&D Needs for Improving Civilian Medical Response to Chemical and Biological Terrorism Incidents 1999-02-26

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Phytomedicines of Europe—Larry D. Lawson 1998 The first book in English on the medicinal plants of Europe, this volume contains up-to-date summaries by leading researchers on the pharmacological effects and active compounds for many widely used medicinal plants. It includes discussions of the German Commission E Monographs, of legal issues associated with selling herbs in the U.S., and of the status of European phytomedicines. The chapters are divided into reviews of general issues and detailed entries on specific plants.

Lipophilicity in Drug Action and Toxicology—Vladimir Pliska 2008-09-26 In keeping with the outstanding importance of lipophilicity and in biosciences, this volume examines all its facets in more than twenty contributions from leading experts. It offers a thorough and highly topical survey of this rapidly developing field of research. Color plates demonstrating structural aspects, a vast number of references, and the straightforward presentation of the material make this volume an invaluable tool for all researchers involved in drug design or in the investigation of drug action.

Sesquiterpene Lactones—Valeria Patricia Sülson 2018-06-07 This book addresses chemical and biological aspects related to sesquiterpene lactones (STLs). Experts in different fields have been invited to contribute on this class of compound’s chemistry, isolation and identification, biological activities (antibacterial, antifungal, antiviral, antitrypanosomonal, antileishmanial,antiplasmodial, antiproliferative and antiinflammatory), synthesis, biosynthesis, derivatization and QSAR analysis. Taxonomic and chemotaxonomic aspects related to the Asteraceae family are also contributed. The book begins by describing the chemical characteristics of STLs, their classification in different skeletal types, synthetic and structural elucidation of STLs, while also highlighting more recently developed methods. Furthermore, experts in the field provide an in-depth discussion of the most commonly employed in vitro and in vivo antiprotozoal assays against the different stages of parasites, as well as STLs’ properties as anticancer agents in numerous cancer cell lines and animal models. Lastly, the book presents examples of the in vitro and in vivo activity of STLs and their mechanism of antiprotozoal action, together with an analysis of ultrastructural alterations, observed using TEM techniques. The book is aimed at scientists working on natural products: both those investigating this particular group of compounds and those who wish to further explore its potential as new drugs for medical conditions such as protozoal diseases and cancer.

Quantitative Structure-Activity Relationships—Milon Tichy 1976 The conference on “Chemical Structure-Biological Activity: Quantitative Approaches” was held in Prague, Czechoslovakia, on June 27-29, 1973. It took place under the auspices of the J. E. Purkyné Czechoslovak Medical Society, the Czechoslovak Chemi cal Society, and the International Society of Quantum Biology (Organizing Commit tee: A. David, Chairman; M. Tichy, Secretary General; K. Bo ek, J. Kopecek . R. Zahradnik). This volume contains the lectures and communications presented at the conference. There has been an ever increasing interest, especially during the last eight years, in the study of the quantitative relationships between the chemical structure of substan ces and their biological activity (QSAR - quantitative structure-activity relationships). One of the reasons for this increasing interest has been the desire to find ways of estimating the quantitative characteristics of a given biological activity as well as to shorten time and reduce the costs of research into optimally active compounds. In contrast to qualitative studies seeking the critical biologically active group, the QSAR approach involves the search for that property, or those properties, which determine the magnitude of the biological effect. Methods of physical chemistry and quantum chemistry appear to be suitable for estimating the quantitative characteristics of the biological activity of different compounds. Forecasting the specific activity of a certain substance by means of theoretical methods is still a matter of future development. One of the basic ideas of QSAR studies is to work with a series of chemical compounds thereby enabling the collection and classification of experimental data.”

Fluorine in Medicinal Chemistry and Chemical Biology—Iwao Ojima 2009-03-23 The extraordinary potential of fluorine-containing molecules in medicinal chemistry and chemical biology has been recognized by researchers outside of the traditional fluorine chemistry field, and thus a new wave of fluorine chemistry is rapidly expanding its biomedical frontiers. With several of the best selling drugs in the world crucially containing fluorine atoms, the incorporation of fluorine into medicinal chemistry and pharmaceuticals is becoming an essential practice in biomedical research, especially for drug design and discovery as well as development. Focusing on the unique and significant roles that fluorine plays in medicinal chemistry and chemical biology, this book reviews recent advances and future prospects in this rapidly developing field. Topics covered include: Discovery and development of fluorine containing drugs and drug candidates. New and efficient synthetic methods for medicinal chemistry and the optimisation of fluorine-containing drug candidates. Structural and chemical biology of fluorinated amino acids and peptides. Fluorine labels as probes in metabolic study, protein engineering and clinical diagnosis. Applications of 19F NMR spectroscopy in biomedical research. An appendix presents an invaluable index of all fluorine-containing drugs that have been approved by the US Food and Drug Administration, including information on structure and pharmaceutical action. Fluorine in Medicinal Chemistry and Chemical Biology will serve as an excellent reference source for graduate students as well as academic and industrial researchers who want to take advantage of fluorine in biomedical research.

Chemistry and Biological Actions of 4-Nitroquinoline 1-Oxide—H. Endo 2013-03-08 During the last decade a considerable body of knowledge has come into existence concerning a class of carcinogenic molecules chiefly represented by 4-nitroquinoline 1-oxide. This class of compounds is of considerable interest as it contains numerous and widely scattered over many branches of science; it was felt that these papers should be reviewed and the knowledge brought together in one volume before it became too unwieldy. This we have attempted to do in this monograph. Our aim has been to include all relevant papers published to date, so that it may serve as an epitome of the present status of knowledge on this important class of chemicals. This synthesis, distribution in nature and their most important biological properties. An overview of the group’s main representatives, based on their importance for human health, as well as an update of the most recently isolated STLs, follow. The authors also provide an overview of the most common methods described in the literature for the extraction, purification, identification and structure elucidation of STLs, while also highlighting more recently developed methods. Furthermore, experts in the field provide an in-depth discussion of the most commonly employed in vitro and in vivo antiprotozoal assays against the different stages of parasites, as well as STLs’ properties as anticancer agents in numerous cancer cell lines and animal models. Lastly, the book presents examples of the in vitro and in vivo activity of STLs and their mechanism of antiprotozoal action, together with an analysis of ultrastructural alterations, observed using TEM techniques. The book is aimed at scientists working on natural products: both those investigating this particular group of compounds and those who wish to further explore its potential as new drugs for medical conditions such as protozoal diseases and cancer.

Biological Radiation Effects—Jürgen Kiefer 1990-01-25 The biological action of radiation undoubtedly constitutes an issue of actual con cern, particularly after incidences like those in Harrisburg or Chernobyl. These considerations, however, were not the reason for writing this book although it is hoped that it will also be helpful in this respect. The interaction of radiation with biological systems is such an interesting research objective that to my mind no special justification is needed to pursue these problems. The combination of physics, chemistry and biology presents on one hand a fascinating challenge to the observer, on the other hand may lead to insights which are not possible if the different subjects remain clearly separated. Special problems of radiation biology have quite often led to new approaches in physics (or vice versa), a recent example is "microdosimetry" (chapter 4). Biological radiation action comprises all levels of biological organization. It starts with the absorption in individual atoms and molecules and ends with the development of cancer and genetic hazards to future generations. The structure of the book reflects this. Beginning with physical and chemical fundamentals, it then turns to a description of chemical and subcellular systems. Cellular effects form a large part since they are the basis for understanding all further responses. Reactions of the whole organism, concentrating on mammals and especially humans, are subsequently treated. The book concludes with a short discussion of problems in radiation protection and the application of radiation in medical therapy. These last points are necessarily short and somewhat superficial.

Chemical Constitution and Biological Activity—Wilfred Archibald Sexton 1953

Chemical & Biological Aspects of Drug Dependency—S. J. Muir 2013-06-04 First published in 1972 this book guides the reader through the various elements behind drug dependency and addiction. Taking an objective view at the characteristics both chemical and biological, the criteria for evaluating dependency as well as the physiological effects drug dependency can have on the human body. Biological and Chemical Aspects of Drug Dependency is a useful reference for students of both medicine and psychology alike as well as for professionals in their respective fields.