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<p>The Alkaloids-Geoffrey A. Cordell 2005-08-23 Provides coverage of this field. Each volume provides detailed coverage of particular classes or sources of alkaloids.</p>
<p>The Alkaloids: Chemistry and Pharmacology- 1991-12-02 The Alkaloids: Chemistry and Pharmacology</p>
<p>The Isoquinoline Alkaloids Chemistry and Pharmacology-Maurice Shamma 2012-12-02 The Isoquinoline Alkaloids: Chemistry and Pharmacology presents an overview of the chemistry, biogenesis, spectroscopy, and pharmacology of the isoquinoline alkaloids. This book examines the significant and interesting aspects of alkaloids. Organized into 32 chapters, this book starts with a discussion of the biogenesis of the isoquinolines and the various pharmacological effects of simple tetrahydroisoquinolines that have stimulant and convulsive properties. This text then explores the infrared absorptions, with emphasis on wavelength and frequency. Other chapters include topics on synthesis, degradation, reactions, absolute configuration, as well as on ultraviolet and nuclear magnetic resonance spectroscopy. This book further explores the various methods available for the preparation of simple tetrahydroisoquinolines, including the Bischler-Napieralski, Pictet-Spengler, and phenolic cyclization, as well as the Friedel-Crafts acylation. The last chapter deals with ancistrocladine, which is the first isoquinoline alkaloid found to possess a methyl group. Biochemists and biophysicists will find this book useful.</p>
<p>The Alkaloids-Hans-Joachim Knolker 2020-02-22 The Alkaloids, Volume 83, is the newest release in a series that has covered the topic for more than 60 years. As the esteemed, leading reference in the field of alkaloid chemistry, this series covers all aspects of alkaloids, including their chemistry, biology and pharmacology. Sections are presented as high-quality, timeless reviews written by renowned experts in the field. New chapters in this release include Lamellarin alkaloids: Isolation, synthesis, and biological activity, Chemodiversity, chemotaxonomy and chemocology of Amaryllidaceae alkaloids, and The indole-based subincanadine alkaloids and their biogenetic congeners. Provides the latest information on the study of alkaloids Covers their chemistry, biology, pharmacology and medical applications Contains more than 70 published volumes in this interesting field of study</p>
<p>Chemistry and Pharmacology- 1997-07-23 Internationally acclaimed for more than 40 years, this Series, founded by the late Professor R.H.F. Manske, continues to provide outstanding coverage of the rapidly expanding field of the chemotaxonomy, structure elucidation, synthesis, biosynthesis, and biology of all classes of alkaloids from higher and lower plants, marine organisms, or various terrestrial animals. Each volume provides, through its distinguished authors, up-to-date and detailed coverage of particular classes or sources of alkaloids. Over the years, this Series has become the standard in natural product chemistry to which all other book series aspire. The Alkaloids: Chemistry and Pharmacology endures as an essential reference for all naturalproduct chemists and biologists who have an interest in alkaloids, their diversity, and their unique biological profile. Indispensable reference work written by leading experts in the field Provides up-to-date, timely reviews on compounds and classes of great interest Covers synthesis, biosynthesis, biology, as well as isolation and structure elucidation An essential research tool for anyone working with alkaloids from a chemical or biological perspectiveperspective</p>
<p>Kratom and Other Mitragynines-Robert B. Raffa 2014-10-29 Opioids such as morphine, codeine, and oxycodone are extracts or analogs isolated from a single source: the opium poppy. For a long time, it was believed to be nature's only source of opioids. But it now appears that biological diversity has evolved an alternative source of opioid compounds—those derived from the plant <i>Mitragyna speciosa</i>. This plant, known as Kratom in Thailand or Biak-Biak in Malaysia, has long been used locally as treatment for pain, fever reduction, diarrhea, and even depression. Kratom and Other Mitragynines: The Chemistry and Pharmacology of Opioids from a Non-Opium Source presents an introduction to the chemical and biological properties of alkaloids isolated from <i>M. speciosa</i> as well as their synthetic analogs. The book covers various topics including phytochemistry, medicinal chemistry, and pharmacology. Current research, analgesic effects, and addiction potential are also discussed. As the first extensive text on the basic science and clinical use of Kratom, the book provides readers with a concise yet comprehensive introduction to nature's "other opioid."</p>
<p>Alkaloids-S. William Pelletier 1983 This is the fifth volume which will provide comprehensive and authoritative reviews of the chemistry and biological properties of the various classes of alkaloids. The scope of these volumes will include structure elucidation, synthesis, biogenesis, pharmacology, physiology, taxonomy, spectroscopy and x-ray crystallography of alkaloids. Certain chapters will include treatment of several subjects such as structure of elucidation, synthesis and pharmacology, whereas other chapters will treat a single aspect of alkaloids.</p>
<p>The Chemistry and Biology of Isoquinoline Alkaloids-J.D. Phillipson 2012-12-06 Isoquinolines form one of the largest groups of plant alkaloids and they in clude a number of valuable clinical agents such as codeine, morphine, eme tine and tubocurarine. Research into different aspects of isoquinolines con tinues in profusion, attracting the talents of botanists, chemists, bioche mists, analysts, pharmacists and pharmacologists. Many of these aspects are of an interdisciplinary nature, and in April 1984, The Phytochemical Society of Europe arranged a 3-day symposium on The Chemistry and Bi ology of Isoquinoline Alkaloids in order to provide a forum for scientists of differing disciplines who are united by a common interest in this one class of natural product. Each chapter in this volume is based on a lecture given at this symposium. Attempts have been made to make the aims and objectives, experimental findings and conclusions reached, intelligible to scientists of differing backgrounds. The introductory chapter, which is mainly based on a historical discus sion, stresses that plants containing isoquinolines have proved to be both a boon and a curse to mankind. The Opium Poppy, Papaver somniferum, produces the medicinally used alkaloids morphine, codeine, noscapine and papaverine whilst it also continues to provide drugs of abuse, particularly morphine and its readily prepared O,O-diacetyl derivative, heroin. Numer ous other alkaloids have been isolated from other members of the Papaver acea, and a knowledge of their presence and distribution within the various species has proved a useful adjunct to systematic botanical studies.</p>
<p>Opium Poppy-L. Kapoor 1995-08-08 Here is an in-depth examination of the opium poppy--the first medicinal plant known to mankind. In Opium Poppy: Botany, Chemistry, and Pharmacology, author L. D. Kapoor provides readers with a comprehensive resource on poppy production from seed to alkaloid. He explores the opium poppy's origin, distribution, chemistry, and uses and abuses from ancient civilizations through the present day. He covers plant and seed production and crop improvement and explores in detail the chemical and pharmaceutical by-products of the opium poppy. The book begins with a historical overview of the origin and use of opium poppy in ancient civilizations such as Greece, Egypt, and Mesopotamia. Chapters that follow contain detailed information on: botanical studies cytogenics and plant breeding agronomy, including insect and pest control measures physiological and anatomical studies chemical and pharmacological aspects of opium alkaloids biosynthesis and physiology of opium alkaloids the occurrence and role of alkaloids in plants the evaluation of analgesic actions of morphine in various pain models in experimental animals Opium Poppy: Botany, Chemistry, and Pharmacology is a useful reference for professionals and students of pharmacy, botany, chemistry, medicine, and pharmacology who need a better overall understanding of this ancient plant and its (potential) modern usage.</p>
<p>The Alkaloids- 1983</p>
<p>The Alkaloids-Arnold Brossi 1991</p>
<p>Alkaloids-Shinji Funayama 2014-10-21 Alkaloids are a large group of structurally complex natural products displaying a wide range of biological activities. The purpose of Alkaloids: A Treasury of Poisons and Medicines is to classify, for the first time, the alkaloids isolated from the natural sources until now. The book classifies all of the alkaloids by their biosynthetic origins. Of interest to the organic chemistry and medicinal chemistry communities involved in drug discovery and development, this book describes many alkaloids isolated from the medicinal plants, including those used in Japanese Kampo medicine. Classifies and lists alkaloids from natural sources Occurrence and biosynthetic pathways of alkaloids Indicates key uses and bioactivity of alkaloids</p>
<p>The Alkaloids-Richard Helmuth Fred Manske 1954</p>
<p>Pharmacology E-Book-Elaine Mary Aldred 2008-10-03 Pharmacology: A Handbook for Complementary Healthcare Professionals provides an accessible text and source book of pharmacology for both students and practitioners of complementary medicine. It covers the basic chemistry which builds into an understanding of basic organic chemistry, key pharmacological principles, herbal and nutritional chemical constituents and the use of conventional medication. Various different aspects are treated in a way, which creates linkages for clarity and clinical relevance. Written in an accessible style and highly illustrated throughout. Relevant to all students and practitioners of complementary medicine Easy to read Includes over 200 illustrations Written by a leading practitioner and lecturer in pharmacology</p>
<p>Alkaloids-Arnold Brossi 1986 The Alkaloids: Chemistry and Pharmacology V28.</p>
<p>The Alkaloids-Richard Helmuth Fred Manske 1950</p>

<p>Chemistry and Pharmacology of Anticancer Drugs-David E. Thurston 2021-03-18 While drug therapies developed in the last 80 years have markedly improved treatment outcomes and the management of some types of cancers, the lack of effectiveness and side effects associated with the most common treatment types remain unacceptable. However, recent technological advances are leading to improved therapies based on targeting distinct biological pathways in cancer cells. Chemistry and Pharmacology of Anticancer Drugs is a comprehensive survey of all families of anticancer agents and therapeutic approaches currently in use or in advanced stages of clinical trials, including biological-based therapies. The book is unique in providing molecular structures for all anticancer agents, discussing them in terms of history of development, chemistry, mechanism of action, structure-function relationships, and pharmacology. It also provides relevant information on side effects, dosing, and formulation. The authors, renowned scientists in cancer research and drug discovery, also provide up-to-date information on the drug discovery process, including discussions of new research tools, tumor-targeting strategies, and fundamental concepts in the relatively new areas of precision medicine and chemoprevention. Chemistry and Pharmacology of Anticancer Drugs is an indispensable resource for cancer researchers, medicinal chemists and other biomedical scientists involved in the development of new anticancer therapies. Its breadth of coverage, clear explanations, and illustrations also make it suitable for undergraduate and postgraduate courses in medicine, pharmacy, nursing, dentistry, nutrition, the biomedical sciences, and related disciplines. Key Features: Summarizes the fundamental causes of cancer, modes of treatment, and strategies for cancer drug discovery Brings together a broad spectrum of information relating to the chemistry and pharmacology of all families of anticancer agents and therapies Includes up-to-date information on cutting-edge aspects of cancer treatments such as biomarkers, pharmacogenetics, and pharmacogenomics Features new chapters on the "Evolution of Anticancer Therapies", "Antibody-Based Therapies", and "Cancer Chemoprevention"</p>
<p>Pharmacognosy-Simone Badal McCreath 2017-03-01 Pharmacognosy: Fundamentals, Applications and Strategies explores a basic understanding of the anatomy and physiology of plants and animals, their constituents and metabolites. This book also provides an in-depth look at natural sources from which medicines are derived, their pharmacological and chemical properties, safety aspects, and how they interact with humans. The book is vital for future research planning, helping readers understand the makeup, function, and metabolites of plants in a way where the history of their usage can be linked to current drug development research, including in vitro, in vivo, and clinical research data. By focusing on basic principles, current research, and global trends, this book provides a critical resource for students and researchers in the areas of pharmacognosy, pharmacy, botany, medicine, biotechnology, biochemistry, and chemistry. Covers the differences between animal and plant cells to facilitate an easier transition to how the body interacts with these entities Contains practice questions and laboratory exercises at the end of every chapter to test learning and retention Provides a single source that covers fundamental topics and future strategies, with the goal of enabling further research that will contribute to the overall health and well-being of mankind</p>
<p>Introduction to Natural Products Chemistry-Rensheng Xu 2011-07-20 Natural products chemistry-the chemistry of metabolite products of plants, animals and microorganisms-is involved in the investigation of biological phenomena ranging from drug mechanisms to gametophytes and receptors and drug metabolism in the human body to protein and enzyme chemistry. Introduction to Natural Products Chemistry has collected the</p>

<p>Alkaloids-Vasil Georgiev 2017-07-12 The book Alkaloids - Alternatives in Synthesis, Modification, and Application collects several chapters written by distinguished scientists and recognized experts in their respective fields of research. The purpose of this book is to focus the attention of a broad range of students, researchers, and specialists on some innovative and highly perspective areas in alkaloid research. The book covers several topics, guiding the readers from the development of nonconventional biotechnologies for alternative production of valuable alkaloids, through the application of modern chemical methods of asymmetric synthesis for production of synthetic and semisynthetic alkaloid derivatives, medicinal application of alkaloids as anesthetics and pain-relief drugs, analytical techniques for alkaloid profiling and their application in chemotaxonomy, quality control and standardization of raw plant material, to the importance of the control and reduction of alkaloid contents during production of animal feedstuffs.</p>
<p>Chemistry for Pharmacy Students-Professor Satyajit D. Sarker 2013-05-28 "This book has succeeded in covering the basic chemistryessentials required by the pharmaceutical science student...the undergraduate reader, be they chemist, biologist or pharmacistwill find this an interesting and valuable read."-Journal of Chemical Biology, May 2009 Chemistry for Pharmacy Students is a student-friendlyintroduction to the key areas of chemistry required by all pharmacyand pharmaceutical science students. The book provides comprehensive overview of the various areas of general, organic andnatural products chemistry (in relation to drug molecules). Clearly structured to enhance student understanding, the book isdivided into six clear sections. The book opens with an overview ofgeneral aspects of chemistry and their importance to modern life,with particular emphasis on medicinal applications. The text thenmoves on to a discussion of the concepts of atomic structure andbonding and the fundamentals of stereochemistry and theirsignificance to pharmacy- in relation to drug action and toxicity.Various aspects of aliphatic, aromatic and heterocyclic chemistryand their pharmaceutical importance are then covered with finalchapters looking at organic reactions and their applications todrug discovery and development and natural products chemistry. accessible introduction to the key areas of chemistry requiredfor all pharmacy degree courses student-friendly and written at a level suitable fornon-chemistry students includes learning objectives at the beginning of eachchapter focuses on the physical properties and</p>

<p>actions of drugmolecules</p>
<p>Medicinal Plants-Hao Da 2015-06-29 Medicinal Plants: Chemistry, Biology and Omics reviews the phytochemistry, chemotaxonomy, molecular biology, and phylogeny of selected medicinal plant tribes and genera, and their relevance to drug efficacy. Medicinal plants provide a myriad of pharmaceutically active components, which have been commonly used in traditional Chinese medicine and worldwide for thousands of years. Increasing interest in plant-based medicinal resources has led to additional discoveries of many novel compounds, in various angiosperm and gymnosperm species, and investigations on their chemotaxonomy, molecular phylogeny and pharmacology. Chapters in this book explore the interrelationship within traditional Chinese medicinal plant groups and between Chinese species and species outside of China. Chapters also discuss the incongruence between chemotaxonomy and molecular phylogeny, concluding with chapters on systems biology and "-omics technologies (genomics, transcriptomics, proteomics, and metabolomics), and how they will play an increasingly important role in future pharmaceutical research. Reviews best practice and essential developments in medicinal plant chemistry and biology Discusses the principles and applications of various techniques used to discover medicinal compounds Explores the analysis and classification of novel plant-based medicinal compounds Includes case studies on pharmaphylogeny Compares and integrates traditional knowledge and current perception of worldwide medicinal plants</p>
<p>Dictionary of Alkaloids with CD-ROM-John Buckingham 2010-01-26 While some of the most commonly investigated- and most notorious- chemicals in the world are alkaloids, many modern medicines are also based on alkaloid structures. Chemists continue to explore new synthetic routes and alkaloid derivatives in search of drug candidates for fighting disease. Drawn from the venerable Dictionary of Natural Products, th</p>
<p>The Vinca Alkaloids-William I. Taylor 1973</p>

<p>Experiments in Pharmaceutical Chemistry, Second Edition-Charles Dickson 2014-02-21 Written by an author with more than 40 years of teaching experience in the field, Experiments in Pharmaceutical Chemistry, Second Edition responds to a critical classroom need for material on directed laboratory investigations in biological and pharmaceutical chemistry. This new edition supplies 75 experiments, expanding the range of topics to 22 major areas of pharmaceutical chemistry. These include biochemical groups, botanical classes important to pharmacy, and major drug classifications: Carbohydrates Lipids Proteins Enzymes Inorganics Vitamins Steroids Plant Acids Flavonoids Alkaloids Tannins Resins Glycosides Gums Balsams Volatile Oils Analgesics Anesthetics Sulfa Drugs (Sulfonamides) Psychotropic Drugs Antibiotics Nucleic Acids Sections contain introductions to basic concepts underlying the fields addressed and a specific bibliography relating to each field. Each experiment provides detailed instructions in a user-friendly format, and can be carried out, in most cases, without the need for expensive instrumentation. This comprehensive laboratory manual offers much-needed instructional material for teaching laboratory classes in pharmaceutical chemistry. The breadth of subject matter covered provides a variety of choices for structuring a laboratory course.</p>
<p>Alkaloids: Chemical and Biological Perspectives-S.W. Pelletier 2013-10-22 This monograph series provides unprecedented interdisciplinary coverage of research relating to the chemistry and biological properties of alkaloids - a class of biologically active compounds of more than 10,000 members. Timely, comprehensive and authoritative, the series features chapters on chemical properties and structure elucidation, synthesis, biosynthesis, taxonomy, spectroscopy, pharmacology, toxicology, and X-ray crystallography of alkaloids. The chapters are written and reviewed by eminent researchers, all of them acknowledged experts in the field. Subject and organism indexes are included for each volume.</p>
<p>Phytochemicals-Venkateshwar Rao 2015-09-30 Global dietary recommendations emphasize the consumption of plant-based foods for the prevention and management of chronic diseases. Plants contain many biologically active compounds referred to as phytochemicals or functional ingredients. These compounds play an important role in human health. Prior to establishing the safety and health benefits of these compounds, they must first be isolated, purified, and their physico-chemical properties established. Once identified, their mechanisms of actions are studied. The chapters are arranged in the order from isolation, purification and identification to in vivo and clinical studies, there by covering not only the analytical procedures used but also their nutraceutical and therapeutic properties.</p>
<p>The Alkaloids-Arnold Brossi 1987-11-01</p>
<p>Ergot Alkaloids and Related Compounds-B. Berde 2012-12-06 With contribution by numerous experts</p>

<p>The Isoquinoline Alkaloids-K. W. Bentley 2014-04-24 The Isoquinoline Alkaloids: A Course in Organic Chemistry is a description of the chemical structures of alkaloids. The book discusses the processes for degradation of isoquinoline alkaloids to recognizable compounds such as oxidation and exhaustive methylation. The associated processes in removing the nitrogen atom are also explained. The commonly used Hofmann process and the interpretation of its result are evaluated in the degradation of alkaloids. The cactus "'pelotte"' used by Mexican Indians to induce hallucinatory experiences is examined. The active ingredient is identified as mescaline; its composition is analyzed to contain one primary amino and three methoxyl groups. The different syntheses made to duplicate mescaline are described. The structures of morphine, codeine, and thebain, which are all alkaloids of opium, are also analyzed. Another example of a principal alkaloid found in a plant is emetine found in the root of the ipeacac. The pharmacological bases of emetine are isolated and noted as emetamine, cephaeline, psychotrine, and O-methylpsychotrine. The text also traces many other structural relationships within the subgroups of the isoquinoline alkaloids. Chemists, students and professors in organic chemistry, and laboratory technicians whose work is related to pharmacology will find this book informative.</p>
<p>Bioactive Marine Natural Products-Dewan S. Bhakuni 2006-06-30 Bioactive Marine Natural Products is the first book available that covers all aspects of bioactive marine natural products. It fills the void in the literature for bioactive marine natural products. The book covers various aspects of marine natural products and it is hoped that all the major classes of bioactive compounds are included. Different classes of marine organisms and the separation and isolation techniques are discussed. The chemistry and biology of marine toxins, peptides, alkaloids, nucleosides and prostanoids are discussed in detail. Biological, toxicological and clinical evaluations are also dealt with to ensure that the book may be adopted at any stage by any practicing organic chemist or biologist, working in academia or in R and D divisions of pharmaceutical companies. Each chapter in the book includes an abstract to highlight the major points discussed in the text and concluding remarks are given. References to books, monographs, review articles and original papers are provided at the end of each chapter.</p>
<p>Poisonous Plants and Phytochemicals in Drug Discovery-Andrew G. Mtwewa 2020-12-22 Focusing on phytochemicals and their potential for drug discovery, this book offers a comprehensive resource on poisonous plants and their applications in chemistry and in pharmacology. Provides a comprehensive resource on phytotoxins, covering historical perspectives, modern applications, and their potential in drug discovery - Covers the mechanisms, benefits, risks and management protocols of phytotoxins in a scientific laboratory and the usefulness in drug discovery - Written and edited by leading researchers in phytochemistry, medicinal chemistry, analytical chemistry, toxicology, and more - Presents chapters in a carefully designed, clear order, making it an ideal resource for the academic researcher or the industry professional at any stage in their career Provides a comprehensive resource on phytotoxins, covering historical perspectives, modern applications, and their potential in drug discovery Covers the mechanisms, benefits, risks and management protocols of phytotoxins in a scientific laboratory and the usefulness in drug discovery Presents chapters in a carefully designed, clear order, making it an ideal resource for the academic researcher or the industry professional at any stage in their career</p>

<p>Biological Activities of Alkaloids-Sabino Aurelio Bufo 2020-05-13 Natural products are increasingly attracting attention from both basic and applied science. Plant secondary metabolites, especially alkaloids, are receiving interest from a wide range of researchers due to their biological activity. They are produced to protect plants from diseases and herbivores. Therefore, they reveal a toxic activity that affects organisms at various levels of biological organization. A growing amount of research is proving their antimicrobial, antifungal, insecticidal, and anticancer activities. That makes them applicable in various fields from medicine, to pharmacology, veterinary, and toxicology, to crop protection. This Special Issue of Toxins, "Biological Activities of Alkaloids: From Toxicology to Pharmacology", collects 15 manuscripts describing the ecological, biological, pharmacological, and toxicological effects as well as structural and analytical aspects of plant alkaloids, their mode of action, and possible application in veterinary, medicine, and plant protection. These studies prove the potential for alkaloid application in various areas of science.</p>
<p>Essentials of Organic Chemistry-Paul M. Dewick 2013-03-20 Essentials of Organic Chemistry is an accessible introduction tothe subject for students of Pharmacy, Medicinal Chemistry andBiological Chemistry. Designed to provide a thorough grounding infundamental chemical principles, the book focuses on key elementsof organic chemistry and carefully chosen material is illustratedwith the extensive use of pharmaceutical and biochemicalexamples. In order to establish links and similarities the book placesprominence on principles and deductive reasoning withcross-referencing. This informal text also places the main emphasison understanding and predicting reactivity rather than synthetic methodology as well as utilising a mechanism based layout andfeaturing annotated schemes to reduce the need for textualexplanations. * tailored specifically to the needs of students of PharmacyMedical Chemistry and Biological Chemistry * numerous pharmaceutical and biochemical examples * mechanism based layout * focus on principles and deductive reasoning This will be an invaluable reference for students of PharmacyMedicinal and Biological Chemistry.</p>
<p>The Catharanthus Alkaloids-William I. Taylor 1975</p>

<p>Handbook of Essential Oils-K. Husnu Can Baser 2009-12-28 Egyptian hieroglyphs, Chinese scrolls, and Ayurvedic literature record physicians administering aromatic oils to their patients. Today society looks to science to document health choices and the oils do not disappoint. The growing body of evidence of their efficacy for more than just scenting a room underscores the need for production standards, quality control parameters for raw materials and finished products, and well-defined Good Manufacturing Practices. Edited by two renowned experts, the Handbook of Essential Oils covers all aspects of essential oils from chemistry, pharmacology, and biological activity, to production and trade, to uses and regulation. Bringing together significant research and market profiles, this comprehensive handbook provides a much-needed compilation of information related to the development, use, and marketing of essential oils, including their chemistry and biochemistry. A select group of authoritative experts explores the historical, biological, regulatory, and microbial aspects. This reference also covers sources, production, analysis, storage, and transport of oils as well as aromatherapy, pharmacology, toxicology, and metabolism. It includes discussions of biological activity testing, results of antimicrobial and antioxidant tests, and penetration-enhancing activities useful in drug delivery. New information on essential oils may lead to an increased understanding of their multidimensional uses and better, more ecologically friendly production methods. Reflecting the immense developments in scientific knowledge available on essential oils, this book brings multidisciplinary coverage of essential oils into one all-inclusive resource.</p>
<p>Alkaloids - Secrets of Life-Tadeusz Aniszewski 2007-03-22 Alkaloids, represent a group of interesting and complex chemical compounds, produced by the secondary metabolism of living organisms in different biotopes. They are relatively common chemicals in all kingdoms of living organisms in all environments. Two hundred years of scientific research has still not fully explained the connections between alkaloids and life. Alkaloids-Chemistry, Biological Significance, Applications and Ecological Role provides knowledge on structural typology, biosynthesis and metabolism in relation to recent research work on alkaloids. Considering an organic chemistry approach to alkaloids using biological and ecological explanation. Within the book several questions that persist in this field of research are approached as are some unsearched areas. The book provides beneficial text for an academic and professional audience and serves as a source of knowledge for anyone who is interested in the fascinating subject of alkaloids. Each chapter features an abstract. Appendices are included, as are a listing of alkaloids, plants containing alkaloids and some basic protocols of alkaloid analysis. * Presents the ecological role of alkaloids in nature and ecosystems * Interdisciplinary and reader friendly approach * Up-to-date knowledge</p>
<p>Saponins-K. Hostettmann 2005-09-29 This book is concerned with the arithmetic of diagonal hypersurfaces over finite fields.</p>

<p>Pharmacology of Antimuscarinic Agents-Laszlo Gyermek 1997-11-25 The theoretical and practical significance of antimuscarinic drugs is more obvious today than ever before. Antimuscarinics have helped to explore the pathomechanisms of of Alzheimer's disease, and to treat the symptoms of Parkinson's, cardiovascular problems, gastrointestinal diseases, and even nerve gas poisoning. No other drug class can claim as long a history with so many therapeutic applications, yet the most significant developments in this broad chapter of pharmacology come from the discovery of different muscarinic receptor sites in the peripheral and central nervous system and from the availability of many new selective agents, notably antagonists, for these different receptor types. Pharmacology of Antimuscarinic Agents, written by an expert in anesthesiology and drug research, focuses on the basic principles of antimuscarinic drugs, their therapeutic value, how they work, and what versions are now available in the U.S. and abroad. This is the first time in decades an author has reviewed historical and current literature to present a comprehensive, standard reference on the antimuscarinic family.</p>
<p>Turn on and Tune in-J. Mann 2009 Timothy Leary's advice to "tune in, turn on and drop out" was a 1960s exhortation to experiment with LSD, but humans had been consuming ergot alkaloids related to lysergic acid diethylamide for at least a thousand years. Opium has been around even longer with its medicinal uses being known to the Ancient Sumerians as long ago as 3400 BC. This is the first book to cover all of the major psychoactive drugs (both natural and synthetic) in one volume, and the only one to cover all aspects of these drugs from their anthropological and sociological influences through to their chemistry and pharmacology. It covers a range of substances including LSD, opium, heroin, cocaine, cannabis, peyote, belladonna, mandrake, and absinthine. The book is highly readable and concentrates on the characters (e.g. authors, painters, pop stars, hippies, politicians and drug barons), both famous and infamous, who have ensured that psychoactive drugs hold an enduring fascination and interest for everyone. The basic chemistry and pharmacological activity covered together with a brief account of useful drugs that have emerged from a study of the psychoactive ones.</p>