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Bioactive Compounds From Natural Sources

Natural sources of bioactive compounds such as aquatic cyanobacteria, filamentous fungi, and tropical plants, The tremendous potentiality of metabolic engineering of natural products biosynthesis The contribution of emerging or developing technologies to the study of bioactive natural compounds, namely computational methods and circular dichroism

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Bioactive Compounds from Natural Sources: Natural Products ...

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(PDF) Bioactive Compounds from Natural Sources, Second ...

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Bioactive Compounds from Natural Sources: Natural Products ...

Interest in obtaining biologically active compounds from natural sources has recently spiked due to their low toxicity, complete biodegradability, availability from renewable sources, and in most cases, low cost. Taking an interdisciplinary approach, *Bioactive Compounds from Natural Sources: Isolation, Characterization, and Biological Properties* co

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The plant kingdom is an inexhaustible source of bioactive compounds with antioxidant character. It is known that, natural polyphenols are essential compounds in stimulating plant growth and ...

[Bioactive compounds from natural sources: isolation ...](#)

Bioactive Compounds Recovery: A High-Energy-Oriented Approach for Extracting Them From Natural Sources Since high-energy extraction techniques are a fast ecocompatible solution, which processes' layout require lower solvent quantities and provide quantitative extraction yields without any special pretreatment, they are gaining momentum in biofunctional compounds' extraction field.

[Extracting Bioactive Compounds From Natural Sources Using ...](#)

Some examples of bioactive compounds are carotenoids, flavonoids, carnitine, choline, coenzyme Q, dithiolthiones, phytosterols, phytoestrogens, glucosinolates, polyphenols, and taurine. Since vitamins and minerals elicit pharmacological effects, they can be categorized as bioactive compounds as well.

[Bioactive Compound - an overview | ScienceDirect Topics](#)

The present article attempts to describe the process of isolation, characterization, and utilization of bioactive compounds derived from natural products as drug candidates called as lead, which focus on the success of pharmacological activity in the process of finding new and effective drug compounds; this process is commonly referred to as "natural product in drug discovery."

[Natural Products in Drug Discovery | IntechOpen](#)

Explores natural sources of bioactive compounds, including cyanobacteria, bacteria, viruses, fungi and higher plants; Discusses the potential applications of biological products, such as their use in medicine (antibiotics, cancer research, immunology), as food additives, supplements and technological substances

[Natural Bioactive Compounds - 1st Edition](#)

Animals also represent a source of bioactive natural products. In particular, venomous animals such as snakes, spiders, scorpions, caterpillars, bees, wasps, centipedes, ants, toads, and frogs have attracted much attention.

[Natural product - Wikipedia](#)

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[Bioactive Compounds from Natural Sources: Natural Products ...](#)

bioactive compounds from natural sources will be the best guarantee to the continued discovery of novel chemotypes from nature (Hook et al., 1997). Structure-activity studies of these leads, preferentially combined with computer-graphic model building, should result in molecules with optimal activity and bioavail-

Bioactive Compounds from

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The unique fragrance and flavor of ginger come from its natural oils, the most important of which is gingerol. Gingerol is the main bioactive compound in ginger. It's responsible for much of ...

The first edition of Bioactive Compounds from Natural Sources was published in a period of renewed attention to biologically active compounds of natural origin. This trend has continued and intensified—natural products are again under the spotlight, in particular for their possible pharmacological applications. Largely focusing on natural products as lead compounds in drug discovery, Bioactive Compounds from Natural Sources, Second Edition: Natural Products as Lead Compounds in Drug Discovery is actually a completely new volume containing surveys of selected recent advances in an interdisciplinary area covering chemistry of natural products, medicinal chemistry, biochemistry, and other related topics. Written by some of the most reputed scientists in the field, this second edition includes new chapters from authors who contributed to the first edition as well as many chapters compiled by new authors. Introducing the reader to strategies and methods in the search for bioactive natural products, this book covers topics including: Natural sources of bioactive compounds such as aquatic cyanobacteria, filamentous fungi, and tropical plants, The tremendous potentiality of metabolic engineering of natural products biosynthesis The contribution of emerging or developing technologies to the study of bioactive natural compounds, namely computational methods and circular dichroism The potential of natural or natural-derived compounds for specific therapeutic applications: treatment of viral diseases, regulation of hypoxia-inducible factor, antimalarials, modulation of angiogenesis, and antitumor and wound-healing activity Selected examples of natural product families and related synthetic analogues, namely polyphenols and camptothecins Compiled for researchers and Ph.D. students working in interdisciplinary fields, this book will also be appreciated by readers without a background in chemistry interested in bioactive natural products, their biological and pharmacological properties, and their possible use as chemopreventive or chemotherapeutic agents. Conversely, the biological and pharmacological data and methods are accessible by chemists.

Natural Bioactive Compounds: Technological Advancements deals with the latest breakthroughs in the field of screening, characterization and novel applications of natural bioactive compounds from diverse group of organisms ranging from bacteria, viruses, cyanobacteria, algae, fungi, bryophytes, higher plants, sponges, corals and fishes. Written by some of the most reputed scientists in the field, this book introduces the reader to strategies and methods in the search for bioactive natural products. It is an essential read for researchers and students interested in bioactive natural products, their biological and pharmacological properties, their possible use as chemopreventive or chemotherapeutic agents, and other future potential applications. Explores natural sources of bioactive compounds, including cyanobacteria, bacteria, viruses, fungi and higher plants Discusses the potential applications of biological products, such as their use in medicine (antibiotics, cancer research, immunology), as food additives, supplements and technological substances Analyzes the contributions of emerging or developing technologies for the study of bioactive natural compounds (characterization and purification)

Interest in obtaining biologically active compounds from natural sources has recently spiked due to their low toxicity, complete biodegradability, availability from renewable sources, and in most cases, low cost. Taking an interdisciplinary approach, Bioactive Compounds from Natural Sources: Isolation, Characterization, and Biological Properties covers general methods and main topics in the research field of bioactive natural products. The book describes general screening methods, modern HPLC hyphenated techniques, and NMR methods in the structural elucidation of compounds and devotes individual chapters to specific topics of research. Surveys on compounds displaying important pharmacological activities are presented in chapters devoted to Mexican medicinal plants, anti-tumor drugs of natural origin, cancer chemopreventive flavonoids, and metabolites displaying anti-HIV, antioxidative, antimalarial, and anti-inflammatory activity. The final chapters are devoted to representative examples of research into marine metabolites: immunomodulating marine glycolipids and surveys of bioactive compounds from marine opisthobranchs and Japanese soft corals. With its focus

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on modern approaches to the isolation of biologically active natural products, this book encourages interdisciplinary work among chemists, pharmacologists, biologists, botanists, and agronomists with an interest in bioactive natural products.

Bioactive natural products are proving to be a rich source of novel therapeutics to both protect against and combat diseases, as well as serve as lead compounds in crop protection. Following the successful format of the first edition, this volume brings together collective research from many new contributors and emphasizes the rationale behind the

Water Extraction of Bioactive Compounds: From Plants to Drug Development draws together the expert knowledge of researchers from around the world to outline the essential knowledge and techniques required to successfully extract bioactive compounds for further study. The book is a practical tool for medicinal chemists, biochemists, pharmaceutical scientists and academics working in the discovery and development of drugs from natural sources. The discovery and extraction of bioactive plant compounds from natural sources is of growing interest to drug developers, adding greater fuel to a simultaneous search for efficient, green technologies to support this. Particularly promising are aqueous based methods, as water is a cheap, safe and abundant solvent. The book is a detailed guide to the fundamental concepts and necessary equipment needed to successfully undertake such processes, supported by application examples and highlighting the most influential variables. Part 1 begins with a thorough introduction to plants as sources of drugs, highlighting strategies for the discovery of novel bioactive constituents of botanicals, the need for standardization and a move toward more rational and greener techniques in the field, the development of plant-based extraction processes and pretreatments for the efficient extraction. Part 2 then reviews a broad range of available techniques, including sections on conventional hot water extraction and pressurized hot water extraction in a range of settings. Intensified processes are then discussed in detail, including sections on microwave-assisted processes, ultrasound-assisted processes and enzyme assisted extraction. Covers the theoretical background and range of techniques available to researchers, helping them to select the most appropriate extraction method for their needs Presents up-to-date and cutting edge applications by international experts Highlights current use and future potential for industrial scale applications Offers a thorough introduction to plants as sources of drugs, highlighting strategies for the discovery of novel bioactive constituents of botanicals

This volume presents different aspects related to bioactive compounds, starting with their natural state in raw sources, physicochemical characterization and employment in pharmacy and medicine. The volume is divided into three parts. The first part describes the chemical structure of bioactive compounds from different natural sources such as olive oils, wines, and medicinal plants. Special attention has been given to identifying the bioactive composition within variations of these natural sources (for example, extra virgin, ordinary or lampante olive oils). The second part of the volume presents the principal methods used for detecting, identifying and quantifying bioactive compounds. Emphasis is given to the use of different types of sensors or biosensors, and multisensor systems in combination with analytical techniques. The final part explains the principal methods for protection of bioactive compounds and the implication of bioactive compounds in pharmacy. This volume is a useful guide for novice researchers interested in learning research methods to study bioactive compounds. **Frontiers in Bioactive Compounds** brings edited reviews on the analysis and characterization of natural compounds of medicinal interest. Each volume covers useful information on a variety of natural sources as well as analytical techniques. This series is essential reading for analytical and medicinal chemists as well as professionals involved in natural and pharmaceutical product research and development.

This book focuses on the modern approach to the isolation of biologically active natural products and provides numerous examples of the isolation and characterization of secondary metabolites. It emphasizes the synthetic or semi-synthetic analogues of natural products, relevant to those working on biomedical applications of natural products. It

Natural products in the plant and animal kingdom offer a huge diversity of chemical structures that are the result of biosynthetic processes that have been modulated over the millennia through genetic effects. With the rapid developments in spectroscopic techniques and accompanying advances in high-throughput screening techniques, it has become possible to isolate and then determine the structures and biological activity of natural products rapidly, thus opening up exciting opportunities in the field of new drug development to the pharmaceutical industry. **Studies in Natural Products Chemistry** covers the synthesis or testing and recording of the medicinal properties of natural products, providing cutting edge accounts of the fascinating developments in the isolation, structure elucidation, synthesis, biosynthesis and pharmacology of a diverse array of bioactive natural products. Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

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 and biological aspects 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 basic knowledge, pinpoints current trends and future directions in this rapidly-evolving field Application-oriented: Throughout the book, the focus is on actual and potential applications in pharmacology and biotechnology This book is an essential resource for natural products chemists, medicinal chemists, biotechnologists, biochemists, pharmacologists, as well as the pharmaceutical and biotechnological industries.

Bioactive compounds play a central role in high-value product development in the chemical industry. Bioactive compounds have been identified from diverse sources and their therapeutic benefits, nutritional value and protective effects in human and animal healthcare have underpinned their application as pharmaceuticals and functional food ingredients. The orderly study of biologically active products and the exploration of potential biological activities of these secondary metabolites, including their clinical applications, standardization, quality control, mode of action and potential biomolecular interactions, has emerged as one of the most exciting developments in modern natural medicine. Biotechnology of Bioactive Compounds describes the current stage of knowledge on the production of bioactive compounds from microbial, algal and vegetable sources. In addition, the molecular approach for screening bioactive compounds is also discussed, as well as examples of applications of these compounds on human health. The first half of the book comprises information on diverse sources of bioactive compounds, ranging from microorganisms and algae to plants and dietary foods. The second half of the book reviews synthetic approaches, as well as selected bioactivities and biotechnological and biomedical potential. The bioactive compounds profiled include compounds such as C-phycocyanins, glycosides, phytosterols and natural steroids. An overview of the usage of bioactive compounds as antioxidants and anti-inflammatory agents, anti-allergic compounds and in stem cell research is also presented, along with an overview of the medicinal applications of plant-derived compounds. Biotechnology of Bioactive Compounds will be an informative text for undergraduate and graduate students of bio-medicinal chemistry who are keen to explore the potential of bioactive natural products. It also provides useful information for scientists working in various research fields where natural products have a primary role.

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