

Exploring Novel Bioactive Compounds From Marine Microbes

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Natural products have been isolated from marine invertebrates such as sponges, tunicates, mollusks and bryozoans. This not only demonstrates the numerous opportunities that oceans provide for the discovery of new compounds but also validates the pharmacological value of the exploration of oceans for novel compounds.

Exploring novel bioactive compounds from marine microbes ...

The historical paradigm of the deep ocean as a biological ‘desert’ has shifted to one of a ‘rainforest’ owing to the isolation of many novel microbes and their associated bioactive compounds. Recently, there has been an explosion of information about novel bioactive compounds that have been isolated from marine microbes in an effort to further explore the relatively untapped marine microbes and their secondary metabolites for drug discovery.

Exploring novel bioactive compounds from marine microbes ...

Exploring novel bioactive compounds from marine microbes. Zhang L (1), An R, Wang J, Sun N, Zhang S, Hu J, Kuai J. The historical paradigm of the deep ocean as a biological 'desert' has shifted to one of a 'rainforest' owing to the isolation of many novel microbes and their associated bioactive compounds. Recently, there has been an explosion of information about novel bioactive compounds that have been isolated from marine microbes in an effort to further explore the relatively untapped ...

Exploring novel bioactive compounds from marine microbes.

Exploring novel bioactive compounds from marine microbes Zhang et al. 279 www.sciencedirect.com Current Opinion in Microbiology 2005, 8 :276 – 281 the DNA directly from marine samples [23,26].

(PDF) Exploring novel bioactive compounds from marine microbes

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Exploring Novel Bioactive Compounds From Marine Microbes ...

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Exploring novel bioactive compounds from marine microbes ...

Animal toxins: Exploring novel bioactive compounds from toads, snakes and scorpions Edited by Benedito Barraviera Given its huge biodiversity, which includes a great amount of venomous and poisonous animal species, Brazil is well-known for its toxicological research.

Animal toxins: exploring novel bioactive compounds from ...

Bio-active compounds are mostly some specific secondary metabolites with antioxidant, inflammatory, immunomodulative potential, antimicrobial property, etc. The bioactive compounds of classes of terpenes, flavonoids, alkaloids, coumarins, stilbenes, etc. alongside the description of some their mechanisms of action are important to study.

Molecules | Special Issue : Bioactive Compounds from ...

This mini-review highlights recent developments in bacterial bioprospecting for novel compounds that are based on several out-of-the-box approaches, including the following: (i) targeting bacterial species previously unknown to produce any bioactive natural products, (ii) exploring non-traditional environmental niches and methods for isolation of bacteria and (iii) various types of ‘genome mining’ aimed at unravelling genetic potential of bacteria to produce secondary metabolites.

Novel bioactive natural products from bacteria via ...

Novel amazon biome bioactive compounds. At Ages, we are convinced that an in-depth knowledge of active ingredients, derived from medicinal plants from the Amazon Biome, and the search for excellence at all times are crucial. The hallmark of Ages is its commitment to bring to the market high functional compounds to modulate and prevent costly burdens that are highly relevant to the ageing process, improving biological age and therefore quality of life.

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Buy Exploring the Bioactive Compounds from Actinobacteria: Inhabiting different habitats (Natural products, the future approach for Drug discovery) by Samar El-Shahidy, Samira R. Mansour, Ahmed D. Al-Bassiony (ISBN: 9783659627972) from Amazon's Book Store. Free UK delivery on eligible orders.

Exploring the Bioactive Compounds from Actinobacteria ...

Marine organisms that live more than 6,000 meters below sea level are considered to be an interesting source of novel bioactive compounds as they survive under extreme conditions. PharmaSea’s research teams will also search the Arctic waters off Norway and the Antarctic via Italian and South African partners and will look for new microbes in other unique environments such as thermal vents.

PharmaSea

Cultivable Actinobacteria are the largest source of microbially derived bioactive molecules. The high demand for novel antibiotics highlights the need for exploring novel sources of these bacteria.

Littoral lichens as a novel source of potentially ...

These bioactive SMS also underpin the widespread use of certain HEF as nutraceuticals and traditional remedies, and allowed the modern pharmaceutical industry to repurpose some of these molecules as life-saving human medications. ... Secondary metabolites from hypocrealean entomopathogenic fungi: novel bioactive compounds L. Zhang, O. E ...

Secondary metabolites from hypocrealean entomopathogenic ...

Natural products from endophytic fungi of medicinal plants have been recognized as potential sources of bioactive compounds. Endophytes exemplify a diverse microbial community that exists in distinct environments and their diversity in these unique habitats benefits in the exploration of novel bioactive compounds.

Endophytic Fungi: Promising Source of Novel Bioactive ...

Exploring Novel Bioactive Compounds From Marine Microbes a probable biological reason for the presence of such highly bioactive compounds in marine microbes could stem from the necessity of a toxin to be potent because of the diluting effect of seawater however

marine microbiology bioactive compounds and ...

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Exploring Novel Bioactive Compounds From Marine Microbes a probable biological reason for the presence of such highly bioactive compounds in marine microbes could stem from the necessity of a toxin to be potent because of the diluting effect of seawater however such high bioactivity

marine microbiology bioactive compounds and ...

Exploring marine resources for bioactive compounds . By Paula Kiuru, Maria Valeria ... products and\ud increased public awareness of marine biodiversity.\ud Marine research is expected to offer novel\ud marine-based lead compounds for industries and\ud strengthen their product portfolios related to\ud pharmaceutical, nutraceutical, cosmetic ...

Exploring marine resources for bioactive compounds – CORE

Request PDF | On Jul 1, 2012, S Montalvão and others published MAREX: Exploring marine natural products for novel bioactive compounds | Find, read and cite all the research you need on ResearchGate

Natural products are promising tools for discovery of novel pharmaceutical and Agricultural compounds. Emergence of antibiotic resistant microbial strains and the great demand for new and safer antibiotic and antitumor drugs creates a new area to search unique products from natural resources. Actinobacteria are known for their extraordinary ability to produce novel compounds of clinical and pharmaceutical importance. Due to the high rediscovery rate of known compounds from common Actinobacteria, a renewed interest in the development of new antimicrobial agents from rare Actinobacteria especially those inhabiting arid conditions is urgently required to fight the increasing number of multidrug-resistant human pathogens. To facilitate that discovery, this book focuses on the diversity, abundance and methodological approaches targeting harsh habitats-associated actinobacteria and Exploring different bioactive compounds from those microorganisms is the main target.

Drug discovery is an expensive, time-consuming process and the modern drug discovery community is constantly challenged not only with discovering novel bioactive agents to combat resistance from known diseases and fight against new ones, but to do so in a way that is economically effective. Advances in both experimental and theoretical/computational methods envisage that the greatest challenges in drug discovery can be most successfully addressed by using a multi-scale approach, drawing on the specialties of a whole host of different disciplines. Multi-Scale Approaches to Drug Discovery furnishes chemists with the detail they need to identify drug leads with the highest potential before isolating and synthesizing them to produce effective drugs with greater swiftness than classical methods may allow. This significantly speeds up the search for more efficient therapeutic agents. After an introduction to multi-scale approaches outlining the need for and benefits of their use, the book goes on to explore a range of useful techniques and research areas, and their potential applications to this process. Profiling drug binding by thermodynamics, machine learning for predicting enzyme sub-classes, and multitasking models for computer-aided design and virtual compound screening are discussed, before the book goes on to review Alkaloid Menispermaceae leads, natural chemotherapeutic agents and methods for speeding up the design and virtual screening of therapeutic peptides. Flavonoids as multi-target compounds are then explored, before the book concludes with a review of Quasi-SMILES as a novel tool. Collecting together reviews and original research contributions written by leading experts in the field, Multi-Scale Approaches to Drug Discovery highlights cutting-edge approaches and practical examples of their implementation for those involved in the drug discovery process at many different levels. Using the combined knowledge of medicinal, computational, pharmaceutical and bio-chemists, it aims to support growth in the multi-scale approach to promote greater success in the development of new drugs. Offers practical guidance on ways to implement multiscale approaches for increased efficiency in drug discovery Draws on the experience of a highly skilled team of authors under the editorial guidance of one of the field's leading experts Includes cutting-edge techniques at the forefront of medicinal chemistry and drug discovery optimization

NEGLECTED TROPICAL DISEASES AND PHYTOCHEMICALS IN DRUG DISCOVERY Explore novel drug discovery updates from medicinal plants to help fight the devastating effects of neglected tropical diseases Neglected Tropical Diseases and Phytochemicals in Drug Discovery delivers a comprehensive exploration of the drug discovery process as it pertains to neglected tropical diseases. The book covers recent advancements in drug discovery, as well as druggable targets and new challenges facing the industry. It offers readers expansive discussions of specific diseases, including protozoan, helminth, bacterial, viral, fungal, and ectoparasitic infections. This book provides readers with insightful perspectives from leading industry voices on fifty years of trends and progress in the search for new, safe, and affordable therapeutic drugs in the fight against neglected tropical diseases. It includes information beneficial to researchers in a variety of fields of biology, chemistry, medicine, and pharmaceuticals. The distinguished authors cover topics including the effects of phytochemicals on the causative agent of leprosy and the potential applicability of phytochemicals in the management of Dengue fever. Readers will also enjoy the inclusion of: Thorough introductions to neglected tropical diseases, phytochemicals, protein targets, and mechanisms in drug discovery, as well as the epidemiology of neglected tropical diseases An exploration of novel bioactive lead compounds for drug discovery against neglected tropical diseases, leishmaniasis, lymphatic filariasis, trypanosomiasis, and schistosomiasis Discussions of protozoan infections, including herbal, nutritional, and traditional remedies for giardiasis and the anti-leishmanial potentials of phytochemicals Examinations of helminth infections, including the prospects of phytochemicals in the treatment of helminthiasis Perfect for medicinal chemists, drug developers, and research and development scientists, Neglected Tropical Diseases and Phytochemicals in Drug Discovery will also earn a place in the libraries of toxicologists and researchers in biology, chemistry, medicinal chemistry, ethnobotany, and bioinformatics seeking a one-stop resource for drug discovery for neglected tropical diseases.

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.

The present book consists of three parts: discovery, development and production of drugs from marine organisms. Marine bacteria, fungi, microalgae, sponges and opisthobranch mollusks have attracted much attention as sources of potential drugs, which is described in the first part. A pain-killing drug developed from the venom of a cone shell is a recent highlight of marine natural product research; the interesting story of its discovery is provided. The second part features an anticancer drug with a novel mode of action which was originally isolated from a sponge and a potential antiosteoporotic drug of a hexacoral origin. But the most serious problem for development of drugs from the sea remains supply. Two possible solutions, production by fermentation and by aquaculture, are described in the third part. Identification and culture of symbiotic bacteria which are responsible for the production of bioactive sponge metabolites are the main objectives for many researchers.

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Highly recommended by CHOICE, Oct 2018 Extremophiles are nature's ultimate survivors, thriving in environments ranging from the frozen Antarctic to abyssal hot hydrothermal vents. Their lifeforms span bacteria to fishes, and are categorized as halophiles from hypersaline environments, acidophiles from acidic waters, psychrophiles from cold habitats, and thermophiles from warm waters. Extremophiles: From Biology to Biotechnology comprehensively covers the basic biology, physiology, habitats, secondary metabolites for bioprospecting, and biotechnology of these extreme survivors. The chapters focus on the novel genetic and biochemical traits that lend these organisms to biotechnological applications. Coupled studies of marine extremophile biology/genomics and extremophile culture for biotechnological applications with the latest advances in bio-prospecting and bio-product development Includes practical experiments that a laboratory can use to replicate extreme habitats for research purposes Presents latest advances in extremophile genomics to give the reader a better understanding of the regulatory mechanisms of extremophiles Offers insights into the production of commercially important extremozymes, carotenoids, bioactive compounds and secondary metabolites of medicinal value. This unique guide serves as a resource for biotechnologists who wish to explore extremophiles for their commercial potential, as well as a valuable reference for teaching undergraduate, graduate and postgraduate students.

What can sharks teach us about our immune system? What can horseshoe crabs show us about eyesight? The more we learn about the ocean, the more we realize how critical these vast bodies of water are to our health and well-being. Sometimes the ocean helps us, as when a marine organism yields a new medical treatment. At other times, the ocean poses the threat of coastal storm surges or toxic algal blooms. From Monsoons to Microbes offers a deeper look into the oceans that surround us, often nurturing yet sometimes harming humankind. This book explores the links among physical oceanography, public health, epidemiology, marine biology, and medicine in understanding what the ocean has to offer. It will help readers grasp such important points as: How the ocean's sweeping physical processes create long-term phenomena such as El Nino and short-term disastrous events such as tsunamis--including what communities can do to prepare. What medicines and nutritional products have come from the ocean and what the prospects are for more such discoveries. How estuaries work--where salt and fresh water meet--and what can go wrong, as in the 7,000 square mile "dead zone" at the out-flow of the Mississippi River. How the growing demand for seafood and the expansion of ocean-going transport has increased our exposure to infectious agents--and how these agents can be tracked down and fought. Why "red tides" of toxic algae suddenly appear in previously unaffected coastal areas, and what happens when algal toxins find their way into our food supply or the air we breathe. The book recommends ways we can implement exciting new technologies to monitor the physics, chemistry, and biology of the ocean to recognize change as it happens. From the impact of worldwide atmospheric warming to the significance of exotic bacteria from submarine hydrothermal vents, the ocean has many depths left to explore.

The marine environment covers 70% of the earth's surface and accounts for 98% of the potentially habitable space. The bioactives from marine microorganisms include antibiotic compounds, polysaccharides, inhibitors, enzymes, peptides, and pigments. These are used in various fields of biology that range from nutraceuticals to cosmeceuticals. Recent scientific investigations have revealed that marine microbial compounds exhibit various beneficial biological effects, such as anti-inflammatory, anti-cancer, anti-HIV, anti-hypertensive, and anti-diabetic. Marine Microorganisms: Extraction and Analysis of Bioactive Compounds sheds light on the extraction, clean-up, and detection methods of major compounds from marine organisms. The book includes information on the different classes of marine microorganisms and the different bioactives that can be extracted from bacteria, fungi and microalgae. Divided into 7 chapters, the book covers bioactive marine natural products, such as marine microbes, seaweeds, and marine sponges as potential sources of drug discovery, and focuses on analysis methods of the biocomponents from marine microorganisms. A useful reference tool for researchers and students, this book provides current knowledge about isolation and analysis methods of the bioactives and provides insight into the various bioactives of marine microbes toward nutraceutical and pharmaceutical development.

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