

Exploring Novel Bioactive Compounds From Marine Microbes

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The journey to bioactive compounds from natural sources

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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 ...

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 ...

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 toxinological 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

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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

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