

Free ebook Exploring novel bioactive compounds from marine microbes (Read Only)

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marine microbes smithsonian ocean

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marine microbes play an important role in taking carbon dioxide from the atmosphere and transforming it into new carbon molecules called carbohydrates often known as carbs these carb molecules can then be used as building blocks within the body

marine bacterial secondary metabolites a treasure house for

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bacteria from marine water sediment and marine organisms can produce a wide range of novel therapeutic compounds with a broad range of applications the associated marine bacteria use nutrients e g carbon generated by their host to defend themselves against harmful entities in the environment by secreting active biological chemicals 66

marine microorganisms wikipedia

Feb 14 2024

contents marine microorganisms marine microorganisms are defined by their habitat as microorganisms living in a marine environment that is in the saltwater of a sea or ocean or the brackish water of a coastal estuary

marine microbial diversity the key to earth s habitability

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free living marine microbes may be more cosmopolitan than symbionts biofilm associated microbes and others extinction is a real possibility for symbiotic microbes since they are dependent on the survival of their host and many many species of marine macroorganisms are currently endangered

what are marine microbes noaa ocean exploration

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the term marine microbe covers a diversity of microorganisms including bacteria archaea eukaryota and viruses these organisms are exceedingly small only 1 8000th the volume of a human cell and spanning about 1 100th the diameter of a human hair up to a million of them live in just one milliliter of seawater

priorities for ocean microbiome research nature microbiology

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microbes participate in nutrient cycles remove huge quantities of carbon dioxide from the air and support ocean food webs the taxonomic and functional diversity of the global ocean microbiome

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marine microbes woods hole oceanographic institution dozens of oval bacteria coat the membrane of this microorganism known as a protist collected from the sulfidic anoxic cariaco basin off the coast of venezuela

oceans are hugely complex modelling marine microbes is key

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marine microorganisms are crucial for ocean health bacteria archaea fungi algae and viruses make up most of the biomass in the seas and form the base of marine food webs they support

largest genetic database of marine microbes could aid drug

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the most comprehensive analysis to date of genes from marine microbes including bacteria viruses and fungi could serve as a foundation for researchers to discover

antibiotics track the

a sea of microbes what s so special about marine

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lucas j stal part of the book series the microbiomes of humans animals plants and the environment mhpe volume 3 2249 accesses abstract this chapter investigates what justifies marine microbiology as a discipline in its own right do marine microorganisms really exist

secondary metabolites of marine microbes from natural

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besides marine macroorganisms such as sponges algae or corals specifically marine bacteria and fungi have shown to produce novel secondary metabolites sms with unique and diverse chemical structures that may hold the key for the development of novel drugs or drug leads

marine microbes did you know noaa ocean exploration

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in fact marine microbes are the canary in the coal mine for the marine environment in addition they are also drivers of change in the ocean consequently it is very important to acquire baseline information against which future changes could be identified

exopolysaccharides from marine microbes source structure

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1 introduction marine microorganisms as important members of marine organisms can produce numerous specific active substances in an extreme environment in low temperature high salt high pressure and oligotrophic conditions

exopolysaccharides from marine microbes source structure

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in the past decade scientific research has focused on the isolation and culture of marine microorganisms and their unique biological activities the eps from marine microorganisms have considerable potential in bioremediation wastewater treatment heavy metal treatment and marine oil pollution

marine microorganisms as an untapped source of bioactive

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marine microbes see a sea of gradients science

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marine microorganisms affect large scale processes in the sea including the cycling of most elements the rates and fate of primary production and the generation of climatically active gases 2 yet they live and interact with the ocean at the microscale

promising bioactive compounds from the marine environment and

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published 26 january 2022 promising bioactive compounds from the marine environment and their potential effects on various diseases akash karthikeyan abey joseph baiju g nair journal of genetic engineering and biotechnology 20 article number 14 2022 cite this article 11k accesses 80 citations 3 altmetric metrics abstract

applications of marine derived microorganisms and their

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marine microorganisms and their enzymes are capable of being active in high salt concentration large range of temperature and high incidence of light and pressure constituting an important source of unique biocatalysts

isolation and identification of marine microbial products

Sep 28 2022

published 19 october 2021 isolation and identification of marine microbial products sahar saleh mohamed sayeda Abdelrazek Abdelhamid Radwa Hassaan Ali Journal of Genetic Engineering and Biotechnology 19 article number 162 2021 cite this article 6710 accesses 8 citations 3 altmetric metrics abstract background

microbial diversity in extreme marine habitats and their

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thermophile halophile alkalophile psychrophile piezophile and polyextremophile microorganisms have been isolated from these marine environments they proliferate thanks to adaptation strategies involving diverse cellular metabolic mechanisms

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