

Advances in
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Volume 64

Marine Medicinal Foods:
Implications and Applications,
Macro and Microalgae

Volume Editor
Se-Kwon Kim



Marine Medicinal Foods Implications And Applications Macro And Microalgae Volume 64

Ramiro Fonnegra Gómez



Marine Medicinal Foods Implications And Applications Macro And Microalgae Volume 64:

Marine Medicinal Foods ,2011-11-03 This volume on medicinal foods from the sea narrates the bioactive principles of various marine floral vertebrate and Invertebrate faunal Macro and Micro algal and microbial sources Contributions from eminent scientists worldwide explain about the latest advance implications in the development and application of marine originated functional foods as potential pharmaceuticals and medicines for the benefit of humankind by meeting the present nutraceutical demands The latest important information for food scientists and nutritionists Peer reviewed articles by a panel of respected scientists The go to series since 1948 Biopolymer-Based Metal Nanoparticle Chemistry for Sustainable Applications Mahmoud Nasrollahzadeh,2021-03-05 Biopolymers are becoming an increasingly important area of research as traditional chemical feedstocks run low and concerns about environmental impacts increase One area of particular interest is their use for more sustainable development of metal nanoparticles Biopolymer based Metal Nanoparticle Chemistry for Sustainability Applications Volume 1 reviews key polymers found in nature their characterization and modification and processes for using them in the development of metal nanoparticles Beginning with an introduction to both green chemistry and biopolymers in Part 1 the book goes on to outline the classification of biopolymers in Part 2 with specific details on polysaccharides proteins and polypeptides lignin and polylactic acid Properties of biopolymers including biodegradability and toxicity are the focus of Part 3 before Part 4 goes on to discuss synthesis and characterization Reviews novel sources of polymers with high potential as green media for synthesizing nanostructures Provides technological details on the synthesis of natural polymer based metal nanoparticles Highlights the use of natural polymer supports and the impact of their properties on stability morphology and scale of nanostructures Harnessing Marine Macroalgae for Industrial Purposes in an Australian Context: Emerging Research and Opportunities Roos, Göran,Cheshire, Anthony,Nayar, Sasi,Clarke, Steven M.,Zhang, Wei,2018-09-07 In today s environmental and economic climate it is important for businesses to drive development towards sustainable and zero waste industries responsibly leveraging renewable low cost inputs to generate high value outputs for the global market Marine macroalgae presents modern businesses with opportunities for the development of a new and vibrant industry sector that largely fulfills these requirements Harnessing Marine Macroalgae for Industrial Purposes in an Australian Context Emerging Research and Opportunities provides emerging perspectives on the theoretical and practical aspects of developing a new business sector within the bio marine industry Featuring coverage on a broad range of topics such as competitive advantage food industry and production systems this publication is ideally designed for environmental researchers business students engineers and academicians seeking current research on the economics regulation and policy in supporting the development of the macroalgal industry sector in the global market Poseidon's Progress Iver P. Cooper,2024-06-03 Nautical travel and shipboard living have evolved to be both safer and more comfortable for passengers and crewmembers While some of these improvements have come about through sheer trial and error others

are the result of a careful analysis of problems followed by finding and implementing scientific solutions This book with a unique problem solution format examines the challenges of life at sea and how they have been ameliorated It covers topics such as ventilation healthy food and drink sleeping quarters sanitation facilities internal and external lighting seaworthiness and survival of maritime disasters man overboard shipwreck fire and contagious disease The text traces the history of the various attempts to address the difficulties of life on the water from a scientific engineering and legal perspective *Food Bioactives and Health* Charis M. Galanakis, 2021-02-15 Bioactive natural compounds have gained attention in recent years due to their potential health benefits including reducing the risk of diabetes cancer and cardiovascular diseases These benefits derive from bioactive compounds anti tumor anti inflammatory anti oxidative anti hypertensive and anti hyperlipidemic activities which serve in addition to their basic nutritional functions Over the last decade researchers have investigated the health impact of bioactive compounds in detail and the development of food applications has attracted great interest Consumer demand has surged for functional foods nutraceuticals superfoods and tailor made foods generated by supplementing traditional food products with bioactive ingredients Food Bioactives and Health offers comprehensive coverage of the properties and health effects of food bioactives in view of new trends in processing food science and food technology Starting with the metabolic characteristics of polyphenols glucosinolates and other food bioactives the text then dives into their impact on human health and recent applications in the world of food technology For food scientists food technologists and product developers looking to understand the role of food bioactives in health and develop applications in personalized nutrition functional foods and nutraceuticals Food Bioactives and Health serves as a one stop reference

Grand Challenges in Marine Biotechnology Pabulo H. Rampelotto, Antonio Trincone, 2018-05-15 This book serves as essential reading for research scientists and biotechnologists from both academia and industry working in marine biotechnology and related disciplines The book discusses recent advances and challenges in terms of science technology innovation and policy for the development of the field and how marine biotechnology may provide new solutions to some of the grand challenges faced by our society Written in an accessible language the book is also recommended as a reference text for decision makers in government and non governmental organizations in their efforts to foster the development of a global blue economy With less than 5 % of the vast and rich marine environment explored our seas and oceans represent a virtually unexplored resource for the discovery of novel product processes and development of bio inspired synthetic drugs with biotechnological potential As such the marine environment has been considered Earth s last frontier of exploration Recent advances in molecular techniques are providing the necessary tools to access on a larger scale the still untapped ocean resources and consequently unveil the promise of the blue biotechnology Governments are recognizing the potential of marine biotechnology to provide solutions to some of the Grand Challenges of the 21st Century such as sustainable energy and food sources identification of novel drugs for improved health treatments and providing new industrial materials and

processes For this reason advances in marine biotechnology may foster the much needed source of innovation and economic growth in many countries and pave the way towards the development of a global blue economy i e a new economic model based on the sustainable exploration of our ocean ecosystems

Microbial Functional Foods and Nutraceuticals Vijai Kumar Gupta,Helen Treichel,Volha (Olga) Shapaval,Luiz Antonio de Oliveira,Maria G. Tuohy,2017-10-30 Showcases the recent advances in microbial functional food applications across food science microbiology biotechnology and chemical engineering Microbial technology plays a key role in the improvement of biotechnology cosmeceuticals and biopharmaceutical applications It has turned into a subject of expanding significance because new microbes and their related biomolecules are distinguished for their biological activity and health benefits Encompassing both biotechnology and chemical engineering Microbial Functional Foods and Nutraceuticals brings together microbiology bacteria and food processing mechanization which have applications for a variety of audiences Pharmaceuticals diagnostics and medical device development all employ microbial food technology The book addresses the recent advances in microbial functional foods and associated applications providing an important reference work for graduates and researchers It also provides up to date information on novel nutraceutical compounds and their mechanisms of action catering to the needs of researchers and academics in food science and technology microbiology chemical engineering and other disciplines who are dealing with microbial functional foods and related areas Microbial Functional Foods and Nutraceuticals is Ground breaking Includes the latest developments and research in the area of microbial functional foods and nutraceuticals Multidisciplinary Applicable across food science and technology microbiology biotechnology chemical engineering and other important research fields Practical and academic An important area of both academic research and new product development in the food and pharmaceutical industries Microbial Functional Foods and Nutraceuticals is an ideal resource of information for biologists microbiologists bioengineers biochemists biotechnologists food technologists enzymologists and nutritionists

Studies in Natural Products Chemistry Atta-ur Rahman,2022-05-17 Studies in Natural Products Chemistry Volume 73 covers the synthesis testing and recording of medicinal properties of natural products providing cutting edge accounts of fascinating developments in the isolation structure elucidation synthesis biosynthesis and pharmacology of a diverse array of bioactive natural products 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 millennia through genetic effects With rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques it has become possible to isolate and determine the structures and biological activity of natural products Hence these new discoveries have created new avenues and applications for their use Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

Therapeutic and Nutritional Uses of Algae Leonel Pereira,2018-01-29 Algae have been used since ancient times as food fodder fertilizer and as source of medicine

Nowadays seaweeds represent an unlimited source of the raw materials used in pharmaceutical food industries medicine and cosmetics They are nutritionally valuable as fresh or dried vegetables or as ingredients in a wide variety of prepared foods In particular seaweeds contain significant quantities of protein lipids minerals and vitamins There is limited information about the role of algae and algal metabolites in medicine Only a few taxa have been studied for their use in medicine Many traditional cultures report curative powers from selected alga in particular tropical and subtropical marine forms This is especially true in the maritime areas of Asia where the sea plays a significant role in daily activities Nonetheless at present only a few genera and species of algae are involved in aspects of medicine and therapy Beneficial uses of algae or algal products include those that may mimic specific manifestations of human diseases production of antibiotic compounds or improvement of human nutrition in obstetrics dental research thalassotherapy and forensic medicine

Systems Biology of Marine Ecosystems Manoj Kumar, Peter Ralph, 2017-10-17 This book describes the latest advances in systems biology in four plant based marine ecosystems seaweeds seagrasses microalgae and corals Marine organisms that inhabit the oceanic environment experience a diverse range of environmental fluctuations anthropogenic stress and threats from invasive species and pathogens System biology integrates physiology genomics transcriptomics proteomics and metabolomics into numerical models and is emerging as an important approach to elucidate the functional adaptations of marine organisms to adverse environmental conditions This book focuses on how ecophysiology omics platforms their integration a systems biology perspective and next generation sequencing tools are being used to address the stress response of marine seaweeds seagrasses corals marine microbe diversity and micro and macroalgae corals bacterial interactions to global climate change and anthropogenic activities The contents of the book are of special interest to graduate and postgraduate marine biology students and marine biology researchers particularly those interested in marine ecology stress physiology of marine macrophytes corals phytoplankton and environmental microbiology This book would also be of interest to marine engineers engaged in the management and conservation of our valuable marine resources

Biotechnology for Biofuels: A Sustainable Green Energy Solution Nitish Kumar, 2020-05-16 The depletion of petroleum derived fuel and environmental concerns have prompted many millennials to consider biofuels as alternative fuel sources But completely replacing petroleum derived fuels with biofuels is currently impossible in terms of production capacity and engine compatibility Nevertheless the marginal replacement of diesel with biofuel could delay the depletion of petroleum resources and abate the radical climate change caused by automotive pollutants Energy security and climate change are the two major driving forces for worldwide biofuel development and also have the potential to stimulate the agro industry The development of biofuels as alternative and renewable sources of energy has become critical in national efforts towards maximum self reliance the cornerstone of our energy security strategy At the same time the production of biofuels from various types of biomass such as plants microbes algae and fungi is now an ecologically viable and sustainable option This book describes the biotechnological advances in

biofuel production from various sources while also providing essential information on the genetic improvement of biofuel sources at both the conventional and genomic level These innovations and the corresponding methodologies are explained in detail

Cell Biology and Translational Medicine, Volume 22 Kursad Turksen,2024-10-23 In this next volume in the Cell Biology and Translational Medicine series we continue to explore the potential utility of stem cells in regenerative medicine Amongst topics explored in this volume are various aspects of stem cell commitment differentiation and organogenesis in both health and cancer Amongst the diverse areas covered are those exploring stems cells in relation to wound healing and their use in treatment of wound healing and different cancers Other topics include genome editing regulation of metabolism immune cells and algae in medicine One goal of the series continues to be to highlight timely often emerging topics and novel approaches that can accelerate stem cell utility in regenerative medicine

Plantas medicinales y otros recursos naturales aprobados en Colombia con fines terapéuticos Ramiro Fonnegra Gómez,2024-02-09 Este libro re ne informaci n de 133 plantas aprobadas en Colombia para uso medicinal seg n la m s reciente reglamentaci n del Invima 2022 Para cada una de ellas y para algunos recursos naturales aprobados el lector encontrar aqu adem s de la informaci n bot nica b sica de la descripci n y de la ilustraci n para facilitar su identificaci n una exposici n detallada sobre tres aspectos la normatividad colombiana para el uso con fines terap uticos con temas como indicaciones de empleo contraindicaciones y precauciones posolog a preparaciones farmac uticas y partes de la planta aceptadas como medicinales la informaci n terap utica reportada en la bibliograf a modos de empleo advertencias y contraindicaciones interacciones con otros medicamentos toxicidad actividad farmacol gica o biol gica comprobada cient ficamente entre otros y por ltimo las drogas usos formas y posolog as recomendados en la medicina tradicional partes de la planta que se utilizan usos y preparaciones y aplicaci n de tratamientos Se incluye tambi n un aparte sobre formas caseras y farmac uticas de preparaci n de las plantas as como un glosario de t rminos bot nicos y un ndice que permite la ubicaci n de nombres cient ficos y comunes dolencias enfermedades y acci n de las plantas Plantas medicinales y otros recursos naturales aprobados en Colombia con fines terap uticos presenta de manera ordenada diferenciada y documentada informaci n que contribuye al uso adecuado y responsable de este importante recurso de salud y bienestar en los diversos planos de la salud y en las diversas orientaciones fitoterap uticas

Marine Phenolic Compounds Jose Ricardo Perez Correa,Raquel Mateos,Herminia Dominguez,2023-02-09 Marine Phenolic Compounds Science and Engineering is a comprehensive resource on these secondary metabolites Phenolic compounds are secondary metabolites with increasing scientific commercial and general population interest for their wide distribution variety and potential applications Less studied than terrestrial sources marine organisms contain highly interesting phenolic compounds due to their exclusive structures In addition the distinctive features of the marine solid matrix requires novel process technology approaches The high productivity of marine biomass makes it a renewable source of valuable components with potential for commercial applications Includes a section on chemical characterization of highly variable structures from

marine phenolics Provides the chemical composition and structure of these important marine compounds Presents the bioavailability and bioactivities of marine phenolics to help facilitate the design of new products Contains contributions from a global team of experts who address the challenges of working with marine phenolic compounds **Volume 2: Thalassotherapy and Cosmeceuticals** M. Lourdes Mourelle,Haresh S. Kalasariya,2025-05-14 The book is a comprehensive review of thalassotherapy and seawater cures and the cosmeceuticals derived from marine algae as novel sources of cosmetic ingredients This comprehensive text offers an in depth exploration of the research and issues related to the use of seawater and marine environment for therapies as well as the composition of cosmeceuticals derived from seaweed With contributions from an international team of experts the book describes the amazing field of thalassotherapy highlighting the characteristics of seawater the techniques of applying seawater and the mechanisms of action as well as the climatic factors that complement marine therapies Of particular relevance are cosmeceuticals derived from seaweed which have been the subject of intense research in recent years In addition highly topical aspects are addressed such as nutrition linked to thalassotherapy **Marine Medicinal Foods** Se-Kwon Kim,Steve Taylor,2011-11-09 This volume on medicinal foods from the sea narrates the bioactive principles of various marine floral vertebrate and Invertebrate faunal Macro and Micro algal and microbial sources Contributions from eminent scientists worldwide explain about the latest advance implications in the development and application of marine originated functional foods as potential pharmaceuticals and medicines for the benefit of humankind by meeting the present nutraceutical demands The latest important information for food scientists and nutritionists Peer reviewed articles by a panel of respected scientists The go to series since 1948 **Sustainable Global Resources of Seaweeds Volume 2** Ambati Ranga Rao,Gokare A. Ravishankar,2022-03-26 Marine plant life is an abundant source of nutrients that enhance the daily diet In recent years consuming diets rich in seaweeds or their extracts have been shown to provide health benefits due to being rich in macronutrients micronutrients and nutraceuticals The commercial value of seaweeds for human consumption is increasing annually and some countries harvest several million tons annually The seaweeds industry is valued at around 12 billion in 2017 and supports millions of families worldwide Seaweeds production grew globally by 30 million tons in 2016 Seaweeds have seen increasing usage in the food industry due to their abundance of beneficial nutrients vitamins and 3 fatty acids To date there have been no books that comprehensively cover up to date information on seaweeds cultivation processing extraction and nutritional properties This text lays out the properties and effects of seaweeds from their use as bioresources to their use in the feed industry to their applications in wastewater management and biofuels Sustainable Global Resources of Seaweeds Volume 2 Industrial Perspectives offers a complete overview of the application of seaweeds into food pharmaceuticals and other health based applications The first section focuses on the various foods derived from seaweeds including extensive insight into the beneficial nutrients these plants contain The many functional foods derived from sea plants are covered in detail including foods from tropical seaweeds

macroalgae Monostroma Caulerpa Palmaria Gracillaria Porphyra Laminaria Fucus Undaria and many more The chapters delve further into the nutritional makeup of these foods their health benefits and chemical makeup A second section is dedicated to the pharmaceutical applications of seaweeds and their many health benefits With chapters devoted to vitamin sources health properties and pharmaceutical applications this section acts as a single source for researchers exploring the pharmaceutical applications and possibilities of seaweeds Research development and commercial applications are explored plus a complete picture of the multitude of health benefits derived from these plentiful and beneficial plants For researchers in search of a comprehensive and up to date source on the application of nutrient rich seaweeds from across the world into novel foods and pharmaceuticals look no further than this volume

Molecular Diversity of Environmental Prokaryotes
Thiago Bruce Rodrigues, Amaro Emiliano Trindade Silva, 2016-08-19 This book correlates the vast genetic diversity associated with environmental samples and still underexploited potential for the development of biotechnology products The book points out the potential of different types of environmental samples It presents the main characteristics of microbial diversity the main approaches used for molecular characterization of the diversity and practical examples of application of the exploration of the microbial diversity It presents a not yet explored structure for discussing the main topics related to molecular biology of environmental prokaryotes and their biotechnological applications

Bioprospecting Algae for Nanosized Materials
Devarajan Thangadurai, Jeyabalan Sangeetha, Ram Prasad, 2022-02-27 Algae are simple primitive heterogeneous autotrophic eukaryotic or prokaryotic organisms that lead a symbiotic parasitic or free living mode of life Microalgae and macroalgae possess great potential in various fields of application Microalgae are ubiquitous and extremely diverse microorganisms that can accumulate toxic contaminants and heavy metals from wastewater making them a superior candidate to become a powerful nanofactory Algae were discovered to reduce the presence of metal ions and afterwards aid in the biosynthesis of nanoparticles Since algae mediated biogenic nanoparticles are eco friendly cost effective high yielding speedy and energy efficient a large number of studies have been published on them in the last few years This book focuses on recent progress on the utilization of algae for the synthesis of nanoparticles their characterization and the possible mechanisms involved Bioprospecting Algae for Nanosized Materials describes the synthesis of algal nanomaterials and its application in various fields for sustainable development This book outlines the procedures to prepare phyconanomaterials techniques to utilize the nanomaterials and applications in agriculture environment and medicine

Global Blue Economy Md. Nazrul Islam, Steven M. Bartell, 2022-11-28 A global blue economy is an economic arena that depends on the benefits and values realized from the coastal and marine environments This book explains the sustainable blue economy as a marine based economy that provides social and economic benefits for current and future generations It restores protects and maintains the diversity productivity and resilience of marine ecosystems and is based on clean technologies renewable energy and circular material flows

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