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Se-Kwon Kim and Katarzyna Chojnacka

Marine Extracts

Processes, Products, and Applications
Volume 1

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Marine Algae Extracts

Processes, Products, and Applications
Volume 2



Marine Algae Extracts Processes Products And Applications 2 Volume Set

S. Rajendran



Marine Algae Extracts Processes Products And Applications 2 Volume Set:

Marine Algae Extracts Se-Kwon Kim,Katarzyna Chojnacka,2015-02-10 Designed as the primary reference for the biotechnological use of macroalgae this comprehensive handbook covers the entire value chain from the cultivation of algal biomass to harvesting and processing it to product extraction and formulation In addition to covering a wide range of product classes from polysaccharides to terpenes and from enzymes to biofuels it systematically discusses current and future applications of algae derived products in pharmacology medicine cosmetics food and agriculture In doing so it brings together the expertise of marine researchers biotechnologists and process engineers for a one stop resource on the biotechnology of marine macroalgae **Marine Algae Extracts, 2 Volume Set** Se-Kwon Kim,Katarzyna

Chojnacka,2015-04-27 Designed as the primary reference for the biotechnological use of macroalgae this comprehensive handbook covers the entire value chain from the cultivation of algal biomass to harvesting and processing it to product extraction and formulation In addition to covering a wide range of product classes from polysaccharides to terpenes and from enzymes to biofuels it systematically discusses current and future applications of algae derived products in pharmacology medicine cosmetics food and agriculture In doing so it brings together the expertise of marine researchers biotechnologists and process engineers for a one stop resource on the biotechnology of marine macroalgae Comprehensive Natural

Products III ,2020-07-22 Comprehensive Natural Products III Third Edition Seven Volume Set updates and complements the previous two editions including recent advances in cofactor chemistry structural diversity of natural products and secondary metabolites enzymes and enzyme mechanisms and new bioinformatics tools Natural products research is a dynamic discipline at the intersection of chemistry and biology concerned with isolation identification structure elucidation and chemical characteristics of naturally occurring compounds such as pheromones carbohydrates nucleic acids and enzymes This book reviews the accumulated efforts of chemical and biological research to understand living organisms and their distinctive effects on health and medicine and to stimulate new ideas among the established natural products community Provides readers with an in depth review of current natural products research and a critical insight into the future direction of the field Bridges the gap in knowledge by covering developments in the field since the second edition published in 2010 Split into 7 sections on key topics to allow students researchers and professionals to find relevant information quickly and easily Ensures that the knowledge within is easily understood by and applicable to a large audience *Marine*

Biotechnology, Revealing an Ocean of Opportunities Ana Rotter,Susana P. Gaudêncio,Marlen Ines Vasquez,Arita Dubnika,2022-03-18 *Evolution of Marine Coastal Ecosystems under the Pressure of Global Changes* Hubert-Jean

Ceccaldi,Yves Hénocque,Teruhisa Komatsu,Patrick Prouzet,Benoit Sautour,Jiro Yoshida,2020-06-15 Coastal and estuarine environments at the interface of terrestrial and marine areas are among the most productive in the world However since the beginning of the industrial era these ecosystems have been subjected to strong anthropogenic pressures intensified from the

second half of the 20th century when there was a marked acceleration in the warming climate change of the continents particularly at high latitudes Coastal ecosystems are highly vulnerable to alteration of their physical chemical and biological characteristics marine intrusion acidification of marine environments changes in ecosystems evolution and artificialization of the coastline etc In contact with heavily populated areas these environments are often the receptacle of a lot of chemical and biological pollution sources that significantly diminish their resilience In this context of accelerated evolution and degradation of these areas important for food security of many populations around the world it is necessary to better identify the factors of pressure and understand at different scales of observation their effects and impacts on the biodiversity and on the socio eco systems in order to determine the degree of vulnerability of these coastal ecosystems and the risks they face A transdisciplinary and integrated approach is required to prevent risks Within this framework operational coastal oceanography occupies an important place but also the implementation of a true socio eco system approach in order to set up an environmentally friendly development

Advanced Textiles for Wound Care S. Rajendran, 2018-09-20 Advanced Textiles for Wound Care Second Edition provides a detailed review of how textiles are incorporated into wound care applications also explaining the importance and suitability of using textiles on different wound types It is an interdisciplinary book which directly links textile technology with advances in wound care The book discusses new developments and techniques related to antimicrobial dressings the use of biopolymers in infection control management advanced dressings for managing cavity and cancerous wounds and the application of nanofibers and novel textile structures in scaffolds among other new areas This updated edition also reflects recent changes in regulatory affairs The book is essential reading for manufacturers designers scientists and producers of wound care materials It is a valuable resource for professionals within the medical sector as well as those in academia enabling materials scientists and engineers in both academia and at medical device companies to stay abreast of new technology Provides a comprehensive introduction to wound care from the different types of wound and wound healing mechanisms to the importance of testing in relation to wound care Analyzes the application of textiles to wound healing covering minor wounds burns ulcers and other deep skin wounds Reviews the current use of smart textiles for wound care including drug delivery dressings and textile based scaffolds for tissue engineering

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

Green Sustainable Process for Chemical and Environmental Engineering and Science Rajender Boddula, Mohd Imran Ahamed, Abdullah M. Asiri, 2020-11-20 Green Sustainable Process for Chemical and Environmental Engineering and Science Green Solvents for Biocatalysis delivers an in depth overview of biocatalysis in green solvents for industrial applications also including outlines of sustainable methodologies in the area of organic chemistry agriculture analytical chemistry and engineering and pharmaceutical sciences The book provides unique content in the area making it a great source for information for undergraduate postgraduate students faculty R D professionals production chemists environmental engineers and industrial experts Provides a broad overview of biocatalysis of sustainable processes Discusses the use of green alternative solvents in biocatalysis Outlines eco friendly organic synthesis and chemical processes using biocatalysis Includes tactics on industrial product development using biocatalysis

Sustainable Downstream Processing of Microalgae for Industrial Application Kalyan Gayen, Tridib Kumar Bhowmick, Sunil Kumar Maity, 2019-09-05 Microalgae can be future resource for industrial biotechnology In current energy crisis era microalgae are under tremendous research focus for the production of biodiesel due to their high photosynthetic efficiency growth rate and high lipid content compared to territorial plants However the large scale production of algal biomass and downstream processing of harvested algae towards bio fuels are facing several challenges from economic viability perspective Apart from bio fuels the microalgae synthesize number of bio molecules such as pigments e g chlorophyll carotenoid protein e g lectin phycobiliprotein and carbohydrates e g agar carrageenan alginate fucodian which are available in the various forms of microalgal products Therefore developing a strategy for large scale production and use of algal biomass for the co production of these value added macromolecules is thus imperative for the improvement of the economics of algal biorefinery In the above context this book covers three major areas i commercial scale production of bio molecules from microalgae ii sustainable approach for industrial scale operation and iii optimization of downstream processes Each of these sections is composed of several chapters written by the renowned academicians industry experts Furthermore in this book a significant weightage is given to the industry experts around 50% to enrich the industrial perspectives We hope that amalgamate of fundamental knowledge from academicians and applied research information from industry experts will be useful for forthcoming implementation of a sustainable integrated microalgal biorefinery This book highlights following Explores biomolecules from microalgae and their applications Discusses microalgae cultivations and harvesting Examines downstream processing of biomolecules Explores sustainable integrated approaches for industrial scale operations Examines purification techniques specific for microalgal proteins Omega 3 fatty Acids carbohydrates and pigments

Expanding Horizon of Cyanobacterial Biology Prashant Kumar Singh, Maria F. Fillat, Viji Sither, Ajay Kumar, 2022-06-26 Expanding Horizon of Cyanobacterial Biology discusses the different aspects of cyanobacteria cyanobacterial application providing a better understanding of cyanobacterial metabolism Chapters

deal with cyanobacteria applications and explore how to exploit cyanobacterial metabolism for industrial applications Sections cover cyanobacterial applications for the production of nanoparticles cyanobacterial diversity and the characterization of different assemblages such as cyanolichens and cyanobacterial endophytes along with their ecological morphological and physiological aspects In addition bioactive compounds and their applications are explored Increasing attention has been paid by scientists across the globe to Cyanobacteria as they are ubiquitous microbes and undoubtedly an important organism in terms of carbon as well as nitrogen fixation However the research on these organisms is limited in terms of their diversity and distribution across the globe Provides background knowledge for researchers concerned with cyanobacterial diversity and characterization of different assemblages Describes the exploitation possibility of cyanobacterial species for human welfare Discusses the different aspects of cyanobacteria cyanobacterial application and better understanding of cyanobacterial metabolism Deals with the exploitation of cyanobacteria and their mats for bioremediation purposes Includes cyanobacterial nanotechnology and its applications in industry and allied sectors

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 Natural Antioxidants to Enhance the Shelf-Life of Food Mirian Pateiro,2024-08-15 Natural Antioxidants to Enhance the Shelf Life of Food Volume Two in the Developments in Food Quality and Safety series is the most up to date resource covering trending topics such as the analysis of toxic compounds and control of food poisoning food fraud traceability and authenticity revalorization of agrifood industry and natural antimicrobial compounds and their applications to improve the preservation of food non thermal processing technologies nanotechnology in food production and intelligent packaging and sensors for food applications The book focuses on recent advances and strategies to use these compounds in the preservation of food Chapters explore advances in antioxidant activity analysis electrochemical methods food oxidative stability and natural antioxidants from agro industrial by products Natural antioxidants from marine sources and innovations in antioxidants films and coatings are also covered The series is edited by Dr Jos Manuel Lorenzo and authored by a team of global experts in the fields of Food Quality and Safety providing comprehensive knowledge to food industry personals and scientists Provides latest information on the use of natural antioxidants to enhance the food shelf life Covers a wide variety of sources and compounds that naturally exert antioxidant activity Thoroughly explains the natural compounds application in foods or their incorporation into packaging **Coralline Algae: Globally Distributed Ecosystem Engineers** Laurie Carol Hofmann,Nick Kamenos,João Silva,Nadine Schubert,Paulo Antunes Horta,Julio Aguirre,Kathryn Schoenrock,2020-07-08 *Secondary Metabolites Based Green Synthesis of Nanomaterials and Their Applications* Azamal Husen,2023-05-02 Nanotechnology is gaining importance in every field of science and technology Green synthesis of nanomaterials involves the use of microorganisms such as bacteria fungi viruses and different lower and higher plants Green synthesis of nanomaterials from plant extracts becoming popular in comparison to synthesis using microorganisms Plant based nanomaterials synthesis is easy have no need to bring back from the culture medium and is safe Additionally plant based nanomaterials are eco friendly in comparison to physical and chemical modes of synthesis Several lower and higher plants are rich in terms of secondary metabolites These metabolites have been used as medicine in crude extract form or with some other formulations They have been also used to isolate the bioactive compounds in modern medicine as well as in herbal medicine systems Thus phytochemicals present in the plant and their parts play an important role in nanomaterials synthesis mainly due to the presence of a significant number of secondary metabolites for instance alkaloids flavonoids saponins steroids tannins etc Further essential and aromatic oils have been also explored for nanomaterials synthesis and they are also equally useful in terms of their various biological applications These organic ingredients come from a wide range of plant components such as leaves stems roots shoots flowers bark and seeds Globally the presence of different plants has shown a capability to produce huge and diverse groups of secondary metabolites The functional groups present in the plant extract acts as capping and stabilizing agent Most of the time pure isolated

bioactive compounds are more biologically active hence scholars are focusing their research on the synthesis of nanomaterials using some particular class of secondary metabolites. Investigations have shown that the green synthesized nanomaterials were found to be more biologically active in comparison to chemically synthesized nanomaterials. These nanomaterials and or nanocomposites found different applications especially in drug delivery, detection and cure of cancer cells, diagnosis of a genetic disorder, photoimaging and angiogenesis detection. They have also shown several applications in agricultural, horticultural as well as forestry sectors. The book in hand covers a wide range of topics as mentioned above. It incorporates chapters that the authors have skilfully crafted with clarity and precision reviewing up to date literature with lucid illustrations. The book would cater to the need of graduate students as a textbook and simultaneously be useful for both novices and experienced scientists and or researchers working in the discipline of nanotechnology, nanomedicine, medicinal plants, plant science, economic botany, chemistry, biotechnology, pharmacognosy, pharmaceuticals, industrial chemistry and many other interdisciplinary subjects. It should also inspire industrialists and policy makers associated with plant based nano products.

Marine Molecules from Algae and Cyanobacteria Paz Otero Fuertes, Dakeshwar Kumar Verma, 2024-10-17

Marine Molecules from Algae and Cyanobacteria: Extraction, Purification, Toxicology and Applications addresses biomolecules, their role in living organism structure elucidation, sources, important characteristics and their industrial applications for educational, academic and industrial purposes. The book covers all methodologies used in the search of marine natural products including screening of marine molecules by chemical methods like HPLC, LC-MS/MS and more. These chemical compounds range from small molecules and enzymes to highly complex secondary metabolites that show bioactivities in physiological systems. Many of these compounds are not commercially available so the isolation methods of these molecules from microalgae, seaweeds and cyanobacteria is challenging. Because of the complexity of their structure, the total synthesis has been shown to be difficult. Developing protocols to obtain reference standards from natural sources have shown satisfactory results in the chemical industry. The marine environment is a rich but underexploited source of commercially interesting natural products with different applications. Several marine organisms such as seaweeds, microalgae, sponges, cyanobacteria, ascidians and fungi are sources of natural valuable molecules. Provides chronological advancements of marine biomolecules, biochemical reactions and modern industrial applications in the various fields of science and engineering. Highlights well established research technology and applications on marine biomolecules, moves to their rapidly emerging aspects and then discusses future research directions. Serves as a valuable reference for scientists, chemists, biochemists, nutritionists, pharmacists and engineers who are searching for modern design and applications of marine molecules.

Natural Polymers for Pharmaceutical Applications Amit Kumar Nayak, Md Saquib Hasnain, Dilip Kumar Pal, 2019-10-16. Many polymers derived from various marine sources and microorganisms possess some important biological properties such as biocompatibility, biodegradability and bioadhesivity that make them attractive as pharmaceutical

excipients in various pharmaceutical dosage forms Moreover these polymers can be modified physically and or chemically to improve their biomaterial properties In this volume Natural Polymers for Pharmaceutical Applications Volume 2 Marine and Microbiologically Derived Polymers looks at how these polymers have been explored and exploited for pharmaceutical uses such as in tablets microparticles nanoparticles ophthalmic preparations gels emulsions suspensions etc Some commonly used marine and microbiologically derived polymers used as pharmaceutical excipients include alginates agar agar gellan gum carrageenan chitosan xanthan gum and others The book focuses on important recent advances from experts around the world on marine derived polysaccharides and pharmaceutical applications of alginates agar agar gellan gum carrageenan chitosan derivatives xanthan gum

Handbook of Algal Technologies and Phytochemicals Gokare Ravishankar,Ranga Rao Ambati,2019-07-12 Key features The most comprehensive resource available on the biodiversity of algal species their industrial production processes and their use for human consumption in food health and varied applications Emphasis on basic and applied research addressing aspects of scale up for commercial exploitation for the development of novel phytochemicals phytochemicals from algae Addresses the underexplored and underutilized potential of chemicals from marine sources for health benefits Each chapter written by expert contributors from around the world includes Summary Points Figures and Tables as well as up to date references The first book in this two volume set explores the diversity of algal constituents for health and disease applications The commercial value of chemicals of value to food and health is about 6 billion annually of which 30 percent relates to micro and macro algal metabolites and products for health food applications This comprehensive volume looks in detail at algal genomics and metabolomics as well as mass production of microalgae As a whole the two volume set covers all micro and macro algal forms and their traditional uses their constituents which are of value for food feed specialty chemicals bioactive compounds for novel applications and bioenergy molecules Bio business and the market share of algae based products are also dealt with providing global perspectives

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

Sustainable Global Resources Of Seaweeds Volume 1 Ambati Ranga Rao,Gokare A. Ravishankar,2022-03-28 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 1 Industrial Perspectives offers a complete overview of seaweeds from their cultivation and processing steps to their bioactive compounds and Industrial applications while also providing the foundational information needed to understand these plants holistically Chapters in this volume focus on seaweeds bioresources ecology and biology composition and cultivation plus usage of seaweeds extracts for the feed industry An entire section is dedicated to waste water treatment bioremediation biofuel and biofertilizer application of seaweeds For any researcher in need of a comprehensive and up to date single source on seaweeds cultivation this volume provides all the information necessary to gain a thorough understanding of this ever important product *Re-valorization of Food Losses and Food Co-products* Jesus Simal-Gandara,Tripti Agarwal,Mahnaz Esteki,Andrea Gomez-Zavaglia,Jianbo Xiao,2021-12-29

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, Witness the Wonders in **Marine Algae Extracts Processes Products And Applications 2 Volume Set** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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