

Se-Kwon Kim *Editor*

Handbook of Anticancer Drugs from Marine Origin

 Springer

Handbook Of Anticancer Drugs From Marine Origin

Johannes Karl Fink



Handbook Of Anticancer Drugs From Marine Origin:

Handbook of Anticancer Drugs from Marine Origin Se-Kwon Kim,2014-12-31 *Handbook of Anticancer Drugs from Marine Origin* Se-Kwon Kim,2014-11-27 This timely desk reference focuses on marine derived bioactive substances which have biological medical and industrial applications The medicinal value of these marine natural products are assessed and discussed Their function as a new and important resource in novel anticancer drug discovery research is also presented in international contributions from several research groups For example the potential role of Spongistatin Apratoxin A Eribulin mesylate phlorotannins fucoidan as anticancer agents is explained The mechanism of action of bioactive compounds present in marine algae bacteria fungus sponges seaweeds and other marine animals and plants are illustrated via several mechanisms In addition this handbook lists various compounds that are active candidates in chemoprevention and their target actions The handbook also places into context the demand for anticancer nutraceuticals and their use as potential anti cancer pharmaceuticals and medicines This study of advanced and future types of natural compounds from marine sources is written to facilitate the understanding of Biotechnology and its application to marine natural product drug discovery research

Handbook of Natural Colorants Thomas Bechtold,Avinash P. Manian,Tung Pham,2023-04-11 *Handbook of Natural Colorants* Second Edition A detailed survey of a variety of natural colorants and their different applications including textiles polymers and cosmetics Colorants describe a wide range of materials such as dyes pigments inks paint or chemicals which are used in small quantities but play an important role in many products such as textiles polymers food and cosmetics As the effects of climate change begin to be felt there has been a shift in focus in the field to renewable resources and sustainability and an interest in the replacement of oil based products with greener substitutions As the push to adopt natural resources grows there have been significant developments in the research and application of natural colorants as a step in the transition to a bio based economy The second edition of *Handbook of Natural Colorants* provides a detailed introduction to natural colorants in a marriage of theory and practice from seed of plant to consumer demand Presenting a wide range of viewpoints the book briefly discusses the history of coloration technology and the current position of natural colorants before highlighting detailed information on regional plant source availability colorant production and properties as well as analytical methods for isolation identification and toxicity aspects It also presents key applications in technical use and consumer products including the use of natural colorants in textiles hair dyeing printing and packaging Finally the text considers environmental and economic aspects of natural colorants *Handbook of Natural Colorants* is a useful reference for dyers textile producers and researchers in the evolving field of sustainable chemistry environmental sciences agricultural sciences and polymer sciences Revised and updated content throughout to reflect developments in research and applications over the past decade New content on biotechnology in natural colorant production natural colorants for mass coloration polymers natural colorants in printing packaging and plant based pigments Discusses strategies for scale up including

consideration of energy waste and effluents For more information on the Wiley Series in Renewable Resources visit www.wiley.com/go/rrs

Marine, Waterborne, and Water-Resistant Polymers Johannes Karl Fink, 2015-10-06 This book focuses on the chemistry of marine polymers waterborne polymers and water resistant polymers as well as the special applications of these materials After the chemistry of marine polymers and their types are discussed the uses of these polymers are detailed as well as various analytical and characterization testing methods The book also emphasizes the polymers that are most environmentally friendly along with their origin and industrial applications The polymers from these 3 types serve a variety of industries including medical equipment and devices outdoor coatings and corrosion protection food packaging saltwater and freshwater marine purposes such as marine ropes boat coatings pipeline protection and marine well application to name just a few

Encyclopedia of Marine Biotechnology Se-Kwon Kim, 2020-08-04 A keystone reference that presents both up to date research and the far reaching applications of marine biotechnology Featuring contributions from 100 international experts in the field this five volume encyclopedia provides comprehensive coverage of topics in marine biotechnology It starts with the history of the field and delivers a complete overview of marine biotechnology It then offers information on marine organisms bioprocess techniques marine natural products biomaterials bioenergy and algal biotechnology The encyclopedia also covers marine food and biotechnology applications in areas such as pharmaceuticals cosmeceuticals and nutraceuticals Each topic in Encyclopedia of Marine Biotechnology is followed by 10 30 subtopics The reference looks at algae cosmetics drugs and fertilizers biodiversity chitins and chitosans aerophysinin 1 toluquinol astaxanthin and fucoxanthin and algal and fish genomics It examines neuro protective compounds from marine microorganisms potential uses and medical management of neurotoxic phycotoxins and the role of metagenomics in exploring marine microbiomes Other sections fully explore marine microbiology pharmaceutical development seafood science and the new biotechnology tools that are being used in the field today One of the first encyclopedic books to cater to experts in marine biotechnology Brings together a diverse range of research on marine biotechnology to bridge the gap between scientific research and the industrial arena Offers clear explanations accompanied by color illustrations of the techniques and applications discussed Contains studies of the applications of marine biotechnology in the field of biomedical sciences Edited by an experienced author with contributions from internationally recognized experts from around the globe Encyclopedia of Marine Biotechnology is a must have resource for researchers scientists and marine biologists in the industry as well as for students at the postgraduate and graduate level It will also benefit companies focusing on marine biotechnology pharmaceutical and biotechnology and bioenergy

A Guide to Intellectual Property Issues in Access and Benefit-sharing Agreements Maria Julia Oliva, Olivier Rukundo, World Intellectual Property Organization, 2018 An essential complement to the WIPO Database of Access and Benefit sharing Agreements this guide offers users and providers of genetic resources an accessible overview of intellectual property issues in access and benefit sharing agreements

Blue Biotechnology Stephane La Barre, Stephen S.

Bates,2018-09-06 With its integral treatment of ecosystem and resource management this is the only overview of the field to address current thinking and future trends All contributions have been written with the novice in mind explaining the basics and highlighting recent developments and achievements Unmatched in scope this two volume reference covers both traditional and well established areas of marine biotechnology such as biomass production alongside such novel ones as biofuels biological protection of structures and bioinspired materials In so doing it ties together information usually only found in widely dispersed sources to assemble a grand unified view of the current state of and prospects for this multi faceted discipline The combination of the breadth of topics and the focus on modern ideas make this introductory book especially suitable for teaching purposes and for guiding newcomers to the many possibilities offered by this booming field

Marine Glycosides Thomas E Adrian,Francisco Sarabia,Ivan Cheng-Sanchez,2019-05-03 In recent years there has been a steady increase in the publication of papers on the chemistry biology and potential clinical uses of marine glycosides Indeed more than half of the papers published in this field are less than a decade old Glycosides have been isolated from species as diverse as algae fungi anthozoans and echinoderms Even fish of the genus *Pardachirus* produce glycosides which they use as shark repellents The major interest in these compounds as potential drugs stems from their broad spectrum of biological effects They have been shown to have antimicrobial antifungal anti inflammatory immune modulatory and anticancer effects The anticancer effects of marine glycosides include cell cycle suppression the induction of apoptosis and the inhibition of migration invasion and metastasis as well as antiangiogenesis Marine glycosides influence membrane permeability and have been shown to influence membrane transport at the molecular level through effects on transport carriers and pumps as well as effects on ligand gated and voltage gated channels Various marine glycosides have been shown to activate sphingomyelinase and ceramide synthesis to inhibit topoisomerase activity receptor tyrosine kinase activity and multidrug resistance protein activity and to antagonize eicosanoid receptors This Special Issue covers the entire scope of marine organism derived glycosides that are of potential value as pharmaceutical agents or leads These include but are not limited to tetracyclic triterpene glycosides other triterpene glycosides steroid glycosides and glycosides of non isoprenoid aglycones

Marine-Based Bioactive Compounds Stephen T. Grabacki,Yashwant V. Pathak,Nilesh H. Joshi,2022-12-26 The ocean offers boundless benefits to human health Known for millennia as a source of food it is continuously gaining recognition as a provider for a variety of materials and as the largest habitat on our planet the ocean s biodiversity stands far above anywhere else Functional ingredients derived from marine algae invertebrates and vertebrates can help fill the need for novel bioactives to treat chronic conditions such as cancer microbial infections and inflammatory processes The latest addition to the Nutraceuticals Basic Research Clinical Applications series *Marine Based Bioactive Compounds Applications in Nutraceuticals* provides an account of marine derived nutraceuticals and their potential health benefits Key Features Provides the latest information on trends in this fast growing market Focuses on the six marine taxa that offer the most

exciting potential Gives practical guidance to anyone wishing to enter this sector With contributions from an international group of experts this book presents a great many opportunities in marine nutraceuticals from the six oceanic taxa that offer the most potential to benefit human health It is a great resource for established nutraceutical companies *Marine Biochemistry* Se-Kwon Kim, 2022-10-12 This book provides the latest comprehensive methods for isolation and other novel techniques for marine product development Furthermore this book offers knowledge on the biological medical and industrial applications of marine derived medicinal food substances There has been a tremendous increase in the products derived from marine organisms for commercial application in industries every year Functional foods of medicinal value are particularly in demand as new technology allows the stabilization of natural ingredients and their availability in pure forms to solve various human diseases Marine flora and fauna have essential elements and trace minerals that nurture various hormones produced in the endocrine system to regulate the respective metabolisms thereby providing a safe and healthy life to humans The overall presentation and clear demarcation of the contents by worldwide contributions is a novel entry point into the market of medicinal foods from the sea The exploration of marine habitats for novel materials are discussed throughout the book The exploration and exploitation of the biochemistry of sea flora and fauna are limited and this book extends the research possibilities into numerous marine habitats Various approaches for extracting and applying the flora and fauna are discussed This book will be of value to researchers marine biotechnologists and medical practitioners due to the vast information as well as industrial and medical applications of marine substances all in one place **Economic valuation of ecosystem**

services provided by deep-sea sponges Ottaviani, D., 2020-12-16 This report represents the first economic valuation of the ecosystem services provided by deep sea sponges in the North Atlantic It is based on information available in the scientific literature at the time of writing but also indicates the research areas where discoveries and research advances are shortly expected The report is aimed at a generic public with no specialized knowledge on sponges or on economic valuation It is outlined in a way to provide essential background information but makes reference to a comprehensive list of scientific publications for further insights **Marine Niche: Applications in Pharmaceutical Sciences** Neelam M

Nathani, Chandrashekar Mootapally, Indra R. Gadhi, Bharat Maitreya, Chaitanya G. Joshi, 2020-11-09 This book offers a comprehensive study of biological molecules acquired from marine organisms which have been exploited for drug discovery with the aim to treat human diseases Biomolecules have potential impacts on a diverse range of fields including medical and pharmaceutical science industrial science biotechnology basic research molecular science environmental science and climate change etc To understand and effectively apply medicinally important biomolecules multidisciplinary approaches are called for The ocean remains a rich biological resource and the vast untapped potential of novel molecules from marine bio resources has caught the interest of more and more researchers These novel biological compounds have never been found in terrestrial or other ecosystems but only in this rich niche Advances in sampling techniques and technologies along with

increased funding for research and nature conservation have now encouraged scientists to look deeper in the waters. Aquaculture supports both tremendous seafood production and the bulk production of marine derived drugs. Furthermore, molecular methods are now being extensively employed to explore the untapped marine microbial diversity. With the help of molecular and biotech tools, the ability of marine organisms to produce new biosynthetic drugs can be greatly enhanced. This book provides an extensive compilation of the latest information on marine resources and their undisputedly vital role in the treatment of diverse ailments.

Marine Natural Products Research in South-East Asia Lik Tong Tan, Novriyandi Hanif, 2025-09-30. This unprecedented volume offers a comprehensive review of marine natural products research across Southeast Asia, a region teeming with untapped marine biodiversity. It provides an extensive survey of the chemistry and biology of specialized metabolites derived from marine organisms such as sponges, tunicates, soft corals, and marine microbes. Highlighting both the scientific advances and critical gaps, the book identifies strategic areas for future research and drug discovery initiatives. With its regional focus and collaborative insights, this edited collection serves as a vital resource for researchers, policymakers, and industry stakeholders engaged in marine biotechnology and sustainable pharmaceutical development in one of the world's most biodiverse marine ecosystems.

Marine Carotenoids Tatsuya Sugawara, Takashi Maoka, 2021-01-22. Carotenoids represent a large group of isoprenoid structures with many different structural characteristics and biological activities. They are the most important of the naturally occurring pigments and are responsible for the various colors of different fruits, vegetables, and plant parts. Marine carotenoids and their unique structures are responsible for the color of many fish, shellfish, and algae. However, while there have been many papers and reviews on carotenoids of terrestrial origin, there has been relatively little research conducted on the impact of marine carotenoids on human health. Recent research efforts have revealed that marine carotenoids have strong biological activity affecting human health and are candidates for nutraceuticals. This Topical Collection of Marine Drugs is dedicated to marine carotenoids and will focus on the benefits of carotenoids for human beings. For a better understanding of the physiological effects of marine carotenoids, this collection should include the most recent developments in the presence analysis, chemistry, and biochemistry of marine carotenoids.

Handbook of the Extracellular Matrix F. Raquel Maia, J. Miguel Oliveira, Rui L. Reis, 2024-07-16. This book comprises 6 sections covering the fundamentals of the extracellular matrix as well as the development and challenges of using biologically derived materials and its advanced biomedical applications. The first section is dedicated to the extracellular matrix, while the other 5 sections are each dedicated to a particular type of material. This book reports the fundamentals of the extracellular matrix and its impact on the development of innovative materials, provides an overview of the advanced methodologies used to develop biologically derived materials, and describes the challenges of the synthesis and processing of the different materials. Furthermore, it presents the biological activities, structural, and physicochemical properties of such materials and the modification methods pursued to improve their inherent properties. The wide range of

advanced applications are covered as well including the combination with emerging technologies underlying tissue engineered scaffolding drug delivery systems 3D in vitro tissue and cancer models 3D bioprinted models bioinks and more This reference work serves as a core reference for multidisciplinary students undergraduates and Ph D students and a wide range of established researchers and professionals working in the medical field e g orthopaedics radiology dentistry and cancer

Studies in Natural Products Chemistry Atta-ur Rahman, 2019-11-14 *Studies in Natural Products Chemistry* Volume 63 covers the rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques that have made it possible to rapidly isolate and determine the structures and biological activity of natural products The book highlights these new and exciting opportunities in the field of new drug development to the pharmaceutical industry As 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 the millennia through genetic effects this book is an ideal resource on the material presented Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

New Tide of Natural Product Chemistry Hayato Ishikawa, Hiromitsu Takayama, 2023-07-21 This book highlights recent research and advances in natural product chemistry written by promising young researchers in this field who have played a central role for recent innovative advancements The book consists of seventeen chapters covering novel bioactive natural products uncovering life phenomena with natural products biosynthesis of natural products total synthesis of complex natural products by innovative strategies and drug discovery using natural products Each chapter begins with a brief and easy to understand introduction then presents the cutting edge research in each individual specialty This book is not only a practical and essential reference resource for natural product chemists medicinal chemists synthetic organic chemists biochemists pharmacologists as well as the pharmaceutical and biotechnological industries but is also a useful guide to understanding new and emerging trends in this field

Algae and Aquatic Macrophytes in Cities Vimal Chandra Pandey, 2022-07-27 *Algae and Aquatic Macrophytes in Cities* Bioremediation Biomass Biofuels and Bioproducts introduces the concept of using the natural ability of plants such as algae and aquatic macrophytes to remediate pollutants from water The book provides scientists with a green economical and successful option when tackling rising water pollution The book's chapters cover a range of areas including bioremediation biomass biofuels and bioproducts during the remediation of polluted water systems It draws together research from eminent scientists from across the globe and includes case studies to help researchers students scientists stakeholders policymakers and environmentalists understand and perform their research with greater ease Presents multiple case studies from global perspectives Focuses on Bioremediation Biomass Biofuels and Bioproducts for water pollution a new approach Provides basic knowledge on how to design grow and use algae and aquatic macrophytes

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 Chemical Ecology Melany P. Puglisi, Mikel A. Becerro, 2018-08-30

During the past 20 years marine chemical ecology has emerged as a respected field of study providing a better understanding of the role natural products play in organisms and their environments Ample data in this book advocates the conservation of marine environments for future drug discovery efforts while sustaining their overall health Marine chemical ecology has expanded to include research in the areas of predator prey interactions marine microbial chemical ecology and seasonal and geographical distribution of marine natural products

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web where v is velocity of sound in m s^{-1} t is temperature in $^{\circ}\text{C}$ and p_0 is absolute pressure in pascals this equation is accurate to within 0.015 m s^{-1} between 0.001 and 95.126 $^{\circ}\text{C}$

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