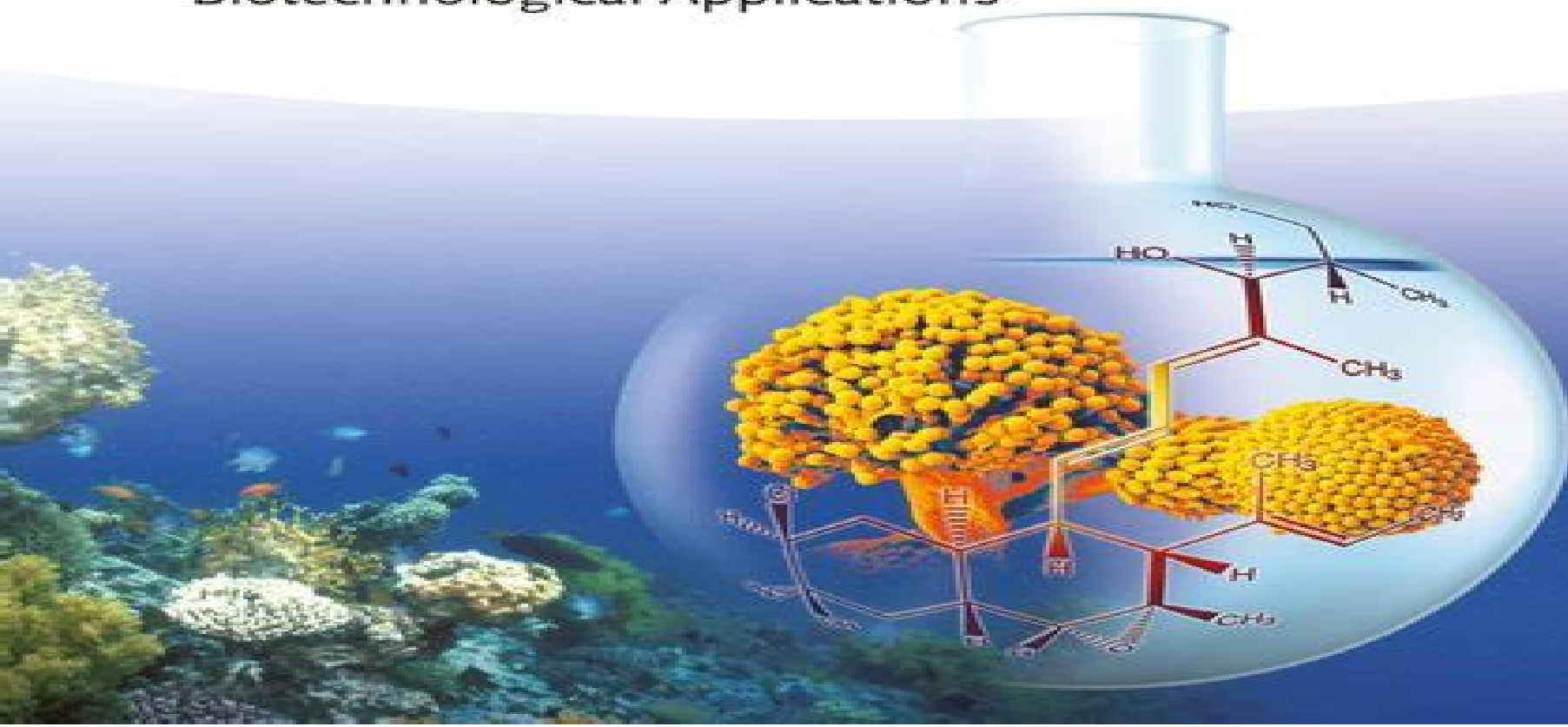


Se-Kwon Kim

Marine Microbiology

Bioactive Compounds and
Biotechnological Applications



Marine Microbiology Bioactive Compounds And Biotechnological Applications

Richard Bailey



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Marine Microbiology Se-Kwon Kim, 2013-06-21 Deliberately breaking with the classical biology centered description of marine organisms and their products this reference emphasizes microbial technology over basic biology setting it apart from its predecessors As such it systematically covers the technology behind high value compounds for use as pharmaceuticals nutraceuticals or cosmetics from prospecting to production issues Following a definition of the field the book goes on to address all industrially important aspects of marine microbial biotechnology The first main part contains a description of the major production organisms from archaeobacteria to cyanobacteria to algae and symbionts including their genetic engineering The remaining four parts look at commercially important compounds produced by these microorganisms together with their applications Throughout the emphasis is on technological considerations and the future potential of these organisms or compound classes is discussed A valuable and forward looking resource for innovative biotechnologists in industry as well as in academia

Marine Enzymes Biotechnology: Production and Industrial Applications, Part III - Application of Marine Enzymes ,2017-02-17 Approx 216 pages

Marine Enzymes Biotechnology: Production and Industrial Applications, Part I - Production of Enzymes ,2016-07-21 Marine Enzymes Biotechnology Production and Industrial Applications Part I Production of Enzymes provides a huge treasure trove of information on marine organisms Nowadays marine organisms are good candidates for enzymes production and have been recognized as a rich source of biological molecules that are of potential interest to various industries Marine enzymes such as amylases carboxymethylcellulases proteases chitinases keratinases xylanases agarases lipases peroxidase and tyrosinases are widely used in the industry for the manufacture of pharmaceuticals foods beverages and confectioneries as well as in textile and leather processing and in waste water treatment The majority of the enzymes used in the industry are of microbial origin because microbial enzymes are relatively more stable than the corresponding enzymes derived from plants and animals Focuses on the isolation characterization and industrial application of marine enzymes Provides current trends and development of industrial important marine enzymes including amylases carboxymethylcellulases proteases chitinases keratinases xylanases agarases lipases peroxidase and tyrosinases Presents insights into current trends and approaches for marine enzymes

Natural Bioactive Compounds Rajeshwar P. Sinha, h.c. Donat-P. Häder, 2020-10-06 Natural Bioactive Compounds Technological Advancements deals with the latest breakthroughs in the field of screening characterization and novel applications of natural bioactive compounds from diverse group of organisms ranging from bacteria viruses cyanobacteria algae fungi bryophytes higher plants sponges corals and fishes Written by some of the most reputed scientists in the field this book introduces the reader to strategies and methods in the search for bioactive natural products It is an essential read for researchers and students interested in bioactive natural products their biological and pharmacological properties their possible use as chemopreventive or chemotherapeutic agents and other future potential applications

Explores natural sources of bioactive compounds including cyanobacteria bacteria viruses fungi and higher plants Discusses the potential applications of biological products such as their use in medicine antibiotics cancer research immunology as food additives supplements and technological substances Analyzes the contributions of emerging or developing technologies for the study of bioactive natural compounds characterization and purification

Marine Biotechnology Shaju S. S., Vipin P. M., Visakh P. M., 2025-11-04 Discover the cutting edge field of marine biotechnology with this comprehensive guide offering expert insights and real world case studies demonstrating its wide range of applications Marine biotechnology is a cutting edge field leading to a more sustainable future through the extraction of biocompounds This book introduces the fundamentals of marine biotechnology and its applications Through expert insights and real world case studies the book serves as a comprehensive guide for a wide range for concepts including the evolution of marine biotechnology and biodiscovery bio molecular components extracted from marine bioresources and biotechnological advances to extend the use of marine bioresources for industrial and agricultural applications This book is an essential resource for beginners and seasoned professionals looking towards the future of marine biotechnology Readers will find this volume Presents real world studies and applications to demonstrate the evolution of marine biotechnology and biodiversity Provides in depth explorations of niche concepts such as bioprospecting of natural products from marine phytoplanktons pharmaceutical and nutraceutical applications of marine micro algae and the application of marine gelatin and chitosan edible nanocomposite film for food coating and packaging Explores methods to help researchers find solutions to both fundamental and applied problems in the area of marine biotechnology Audience Marine scientists aquaculture technologists marine engineers and academics interested in the cutting edge applications of marine biotechnology

Marine Sponges: Chemicobiological and Biomedical Applications Ramjee Pallela, Hermann Ehrlich, 2016-11-17 The main focus of this book entitled is to provide an up to date coverage of marine sponges and their significance in the current era This book is an attempt to compile an outline of marine sponge research to date with specific detail on these bioactive compounds and their pharmacological and biomedical applications The book encompasses twenty chapters covering various topics related to Marine Sponges Initial couple of chapters deal about the worldwide status of marine sponge research the recent findings regarding dynamics of sponges and several interesting research areas that are believed to be deserving of increased attention Variety of sponges their toxicology metagenomics pharmaceutical significance and their possible applications in biomedicine has been discussed in detail The second half of this part includes chapters on chemical ecology of marine sponges followed by the discussion on importance of bioeroding sponges in aquaculture systems The following four chapters of the book deal majorly with the chemical molecules of marine sponges In the fifth chapter marine sponge associated actinobacteria and their physicochemical properties have been discussed followed by their bioactive potential The biological application of marine sponges has been presented in later chapters with the classification of biologically active compounds being explored in detail The second half of

the book presents the vast repertoire of secondary metabolites from marine sponges which include terpenoids heterocycles acetylenic compounds steroids and nucleosides Further the bioactive potential of these compounds has also been discussed One of the constituent chapter elaborates the bioactive alkaloids from marine sponges namely pyridoacridine indole isoquinoline piperidine quinolizidine steroidal and bromotyrosine alkaloids isolated from them In the next couple of chapters important sponge polymers and the anticancer effects of marine sponge compounds have been presented The most interesting aspect of sponge biology is their use in biomedical arena An effort has been made in this book to cover the major constituents of sponges and their biomedical potentials The major portion of sponge body is composed of collagen and silica and used in tissue engineering as scaffold material This part of the book compiles chapters delineating the isolation of sponge biomaterials including collagen and their use in medical diagnostics Overall this book would be an important read for novice and experts in the field of sponge biology 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 *Marine Glycobiology* Se-Kwon Kim,2016-10-14 Marine glycobiology is an emerging and exciting area in the field of science and medicine Glycobiology the study of the structure and function of carbohydrates and carbohydrate containing molecules is fundamental to all biological systems and represents a developing field of science that has made huge advances in the last half century This book revolutionizes the concept of marine glycobiology focusing on the latest principles and applications of marine glycobiology and their relationships Marine Greens Sesan Abiodun Aransiola,Oluwafemi Adebayo Oyewole,Naga Raju Maddela,Udeme

Joshua Josiah Ijah,Bangeppagari Manjunatha,2024-03-27 This book provides an in depth overview of marine greens and their environmental and biotechnological applications It addresses concepts such as the niche adaptation strategies of marine greens in their natural habitats as well as their global distribution and factors affecting their distribution and proliferation Marine greens are posited as an alternative to fossil fuels mitigating global climate change and thereby fostering future environmental sustainability In addition the book explains the remediation of xenobiotics wastewater microplastics marine debris and marine green contamination Expert authors from around the world explore the industrial and agricultural applications of marine greens in the production of enzymes and marine bioenergy and what is needed to improve its production potential This is important reading for government and non governmental organizations as well as industries and research institutions looking for ways to combat current industrial and environmental challenges **Marine Enzymes and**

Specialized Metabolism - Part A, 2018-05-17 Marine enzymes and specialized metabolism Part A Volume 604 highlights experimental methods on diverse marine enzymes involved in the construction of bioactive natural product molecules These detailed protocols are written by experts who actively study and apply marine enzymes in biosynthesis and biotechnology Comprehensive chapters in this latest release cover Chemoenzymatic synthesis of starting materials and characterization of halogenases requiring acyl carrier protein tethered substrates Assaying biradical aryl coupling activity of CYP450 enzymes the Characterization and application of marine microbial omega 3 polyunsaturated fatty acid synthesis Catalase related allene oxide synthase on a biosynthetic route to fatty acid cyclopentenones Haloalkane dehalogenases from marine microorganisms and more Presents comprehensive information on a subject not widely covered in other method book Contains the authority and expertise of recognized and celebrated contributors

Ecological Interplays in Microbial Enzymology Naga Raju Maddela, Aransiola Sesan Abiodun, Ram Prasad, 2022-11-10 This contributed volume compiles the latest developments in the field of microbial enzymology It focuses on topics such as distribution of microbial enzymes in natural habitats microbial enzymes in environmental sustainability and environmental disturbances on microbial enzymes which are organized into three parts respectively Ranging from micro scale studies to macro it covers a huge domain of microbial enzymes and their interplay between the components of the environment Overall the book portrays the importance of microbial enzyme technology and its role in solving the problems in modern day life The book is a ready reference for practicing students and researchers in environmental engineering chemical engineering agricultural engineering and other allied fields

Machine Learning and Mechanics Based Soft Computing Applications Thi Dieu Linh Nguyen, Joan Lu, 2023-03-01 This book highlights recent advances in the area of machine learning and robotics based soft computing applications The book covers various artificial intelligence machine learning and mechanics a mix of mechanical computational engineering work The current computing era has a huge market potential for machine learning robotics and soft computing techniques and their applications With this in view the book shares latest research and cutting edge applications useful for professionals and researchers in these areas

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

Beneficial Microbes in Agro-Ecology N. Amaresan, M. Senthil Kumar, K. Annapurna, Krishna Kumar, A.

Sankaranarayanan, 2020-05-14 *Beneficial Microbes in Agro Ecology* Bacteria and Fungi is a complete resource on the agriculturally important beneficial microflora used in agricultural production technologies Included are 30 different bacterial genera relevant in the sustainability mechanisms and beneficial natural processes that enhance soil fertility and plant growth The second part of the book discusses 23 fungal genera used in agriculture for the management of plant diseases and plant growth promotion Covering a wide range of bacteria and fungi on biocontrol and plant growth promoting properties the book will help researchers academics and advanced students in agro ecology plant microbiology pathology entomology and nematology Presents a comprehensive collection of agriculturally important bacteria and fungi Provides foundational knowledge of each core organism utilized in agro ecology Identifies the genera of agriculturally important microorganisms

Marine Lipids 2017 Rosário Domingues, Ricardo Calado, Pedro Domingues, 2018-04-17 This book is a printed edition of the Special Issue *Marine Lipids 2017* that was published in *Marine Drugs* *Studies in Natural Products Chemistry*, 2016-06-20 *Studies in Natural Products Chemistry* Volume 48 provides the latest on the use of natural products from the plant and animal kingdom and the ways in which they can offer a huge diversity of chemical structures which are the result of biosynthetic processes that have been modulated over the millennia through genetic effects With the rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques it has become possible to isolate and then rapidly determine the structures and biological activity of natural products thus opening up exciting opportunities in the field of new drug development The series covers all aspects of the science along with the synthesis testing and recording of the medicinal properties of natural products With articles written by leading authorities in their respective fields of research the book presents current frontiers and future guidelines for research based on important discoveries made in the field of bioactive natural products It is a valuable resource for all those working in natural product and medicinal chemistry Provides the latest on the use of natural products from the plant and animal kingdom and the ways in which they can offer a huge diversity of chemical structures Focuses on the chemistry of bioactive natural products and their exciting new applications in the pharmaceutical industry Presents current frontiers and future guidelines for research based on important discoveries made in the field of bioactive natural products Contains contributions by leading authorities in the field

Essentials of Marine Biotechnology Se-Kwon Kim, 2019-08-31 This textbook introduces marine biotechnology by collecting the key knowledge on genetics fish breeding genetic diversity seaweed production and microalgae biotechnology and explores marine biomaterials and how they can benefit human health Covering the latest applications of marine biotechnology in natural product development genomics transgenic technology cosmeceuticals nutraceuticals and pharmaceutical development it particularly focuses on future biological resources developing functional materials from marine life production of marine bioenergy and marine microbial resources and biotechnology The author

explains the structure of the book in an introductory note and each chapter offers a detailed overview and conclusion to help readers better grasp the acquired knowledge Lastly the final part provides a comprehensive glossary with brief explanations of the key concepts in marine biotechnology Written by a leading expert in the field with more than 30 years of teaching experience this book broadens students understanding of the basics and recent developments in marine biotechnology

Phycobiotechnology Jeyabalan Sangeetha,Devarajan Thangadurai,Saniyasi Elumalai,Shivasharana Chandrabanda Thimmappa,2021-03-01 Named 1 of 15 Best New Biotechnology Books to Read in 2021 by BookAuthority This volume explores and explains the vast uses and benefits of algae as food feed and fuel It covers the most advanced applications of algae in the food and feed industries and for environmental sustainability With chapters written by experts and which were extensively reviewed by many well known subject experts and professionals *Phycobiotechnology* Biodiversity and Biotechnology of Algae and Algal Products for Food Feed and Fuel provides an abundance of valuable information Algae are a genetically diverse group of organisms with a wide range of physiological and biochemical characteristics that have unique capabilities in the fields of agriculture pharmaceuticals industry and environment Algae hold the potential to become the planet s next major source of energy and a vital part of the solution for climate change and dependence on fossil fuels Many varieties of algae are also known to be an abundant source of vitamins minerals and other nutrients that can boost the human immune system *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

Marine Microbiology Colin Munn, 2011-04-01 Marine Microbiology brings together microbial biology and ecology to create an integrated approach that addresses environmental management human health and economic concerns The Second Edition takes into account many new discoveries in the field including the role of microbes in ocean processes and nutrient cycles the importance of viruses the beneficial role of marine microbes in biotechnology biofuels metagenomics and synthetic biology and new research on the impact of climate change and ocean acidification The first three sections review the main features of the marine environment and key aspects of marine microbial life the second section examines the role of marine microorganisms in ecology and the final section considers some of the applications of this knowledge in areas such as disease and biodegradation Marine Microbiology is ideally suited for upper level undergraduate and graduate students and researchers

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