

Marine Biomaterials

Characterization, Isolation
and Applications



Edited by
Se-Kwon Kim



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Marine Biomaterials Characterization Isolation And Applications

Se-Kwon Kim



Marine Biomaterials Characterization Isolation And Applications:

Marine Biomaterials Se-Kwon Kim, 2013-04-11 Oceans are an abundant source of diverse biomaterials with potential for an array of uses *Marine Biomaterials Characterization Isolation and Applications* brings together the wide range of research in this important area including the latest developments and applications from preliminary research to clinical trials The book is divided into four parts *Marine-Derived Biomaterials for Tissue Engineering Applications* Andy H. Choi, Besim Ben-Nissan, 2019-07-08 This book presents the latest advances in marine structures and related biomaterials for applications in both soft and hard tissue engineering as well as controlled drug delivery It explores marine structures consisting of materials with a wide variety of characteristics that warrant their use as biomaterials It also underlines the importance of exploiting natural marine resources for the sustainable development of novel biomaterials and discusses the resulting environmental and economic benefits The book is divided into three major sections the first covers the clinical application of marine biomaterials for drug delivery in tissue engineering while the other two examine the clinical significance of marine structures in soft and hard tissue engineering respectively Focusing on clinically oriented applications it is a valuable resource for dentists oral and maxillofacial surgeons orthopedic surgeons and students and researchers in the field of tissue engineering *Springer Handbook of Marine Biotechnology* Se-Kwon Kim, 2015-01-21 This Springer Handbook provides for the first time a complete and consistent overview over the methods applications and products in the field of marine biotechnology A large portion of the surface of the earth ca 70% is covered by the oceans More than 80% of the living organisms on the earth are found in aquatic ecosystems The aquatic systems thus constitute a rich reservoir for various chemical materials and bio chemical processes Edited by a renowned expert with a longstanding experience and including over 60 contributions from leading international scientists the Springer Handbook of Marine Biotechnology is a major authoritative desk reference for everyone interested or working in the field of marine biotechnology and bioprocessing from undergraduate and graduate students over scientists and teachers to professionals Marine biotechnology is concerned with the study of biochemical materials and processes from marine sources that play a vital role in the isolation of novel drugs and to bring them to industrial and pharmaceutical development Today a multitude of bioprocess techniques is employed to isolate and produce marine natural compounds novel biomaterials or proteins and enzymes from marine organisms and to bring them to applications as pharmaceuticals cosmeceuticals or nutraceuticals or for the production of bioenergy from marine sources All these topics are addressed by the Springer Handbook of Marine Biotechnology The book is divided into ten parts Each part is consistently organized so that the handbook provides a sound introduction to marine biotechnology from historical backgrounds and the fundamentals over the description of the methods and technology to their applications but it can also be used as a reference work Key topics include Marine flora and fauna Tools and methods in marine biotechnology Marine genomics Marine microbiology Bioenergy and biofuels Marine bioproducts in industrial applications

Marine bioproducts in medical and pharmaceutical applications and many more *Marine Carbohydrates: Fundamentals and Applications, Part A*, 2014-07-29 Marine Carbohydrates Fundamentals and Applications brings together the diverse range of research in this important area which leads to clinical and industrialized products The volume number 72 focuses on marine carbohydrates in isolation biological and biomedical applications and provides the latest trends and developments on marine carbohydrates Advances in Food and Nutrition Research recognizes the integral relationship between the food and nutritional sciences and brings together outstanding and comprehensive reviews that highlight this relationship Volumes provide those in academia and industry with the latest information on emerging research in these constantly evolving sciences Includes the isolation techniques for the exploration of the marine habitat for novel polysaccharides Discusses biological applications such as antioxidant antiallergic antidiabetic antiobesity and antiviral activity of marine carbohydrates Provides an insight into present trends and approaches for marine carbohydrates *Handbook of Research in Marine Pharmaceutics* Md. Faiyazuddin, Khalid Rehman Hakeem, 2025-02-03 In response to the pharmaceutical industry's growing need for new chemicals for drug development researchers are looking at marine sources for novel bioactive natural products Oceans are packed with bioactive secondary metabolites drawing the attention of many scientists across the globe This new book Handbook of Research in Marine Pharmaceutics Exploring Oceanic Microbial Diversity for Human Health and Wellness presents a range of novel antibacterial antiviral and anticancer chemicals identified from marine sources along with their potential applications in drugs for the eradication and treatment of diseases The book covers topics such as the use of marine polysaccharides marine biopolymers algae and macroalgae etc in new drug development The authors explore the development of cosmeceuticals and nutraceuticals from the sea as well as the medicinal qualities of cyanobacteria in drug delivery and new drug development The volume provides an important resource that details the chemical characteristics that are helpful in identifying new uses of marine natural products for new drugs Key features Provides an informative analysis of the global marine derived drug industry and market Presents the chemical characteristics that are helpful in identifying new uses of marine natural products for new drugs Discusses recent advances in extraction and separation methods of marine natural products for drug discovery Reviews marine therapeutics with special attention to anti cancer antiviral antimalarial and anti HIV traits With its wealth of information this book is ideal as a resource for researchers involved in the field of pharmaceutical sciences microbiology biotechnology and molecular biosciences It will also be helpful to academicians and research students in colleges research laboratories industries and universities *Marine Enzymes Biotechnology: Production and Industrial Applications, Part III - Application of Marine Enzymes*, 2017-02-17 Approx 216 pages Approx 216 pages *Marine Biological Materials of Invertebrate Origin* Hermann Ehrlich, 2019-10-17 The work is a source of modern knowledge on biomineralization biomimetics and bioinspired materials science with respect to marine invertebrates The author gives the most coherent analysis of the nature origin and evolution of biocomposites and biopolymers isolated from

and observed in the broad diversity of marine invertebrate organisms and within their unusual structural formations The basic format is that of a major review article with liberal use of references to original literature There is a wealth of new and newly synthesized information including dozens of previously unpublished images of unique marine creatures and structures from nano to microscale including high resolution scanning and transmission electron micrographs The material is organized effectively along both biological phyla and functional lines The classification of biological materials of marine origin is proposed and discussed Much of the pertinent data is organized into tables and extensive use is made of electron micrographs and line drawings Several modern topics e g biomineralization demineralization remineralization phenomena or phenomenon of multiphase biomineralization are discussed in details Traditionally such current concepts as hierarchical organization of biocomposites and skeletal structures structural bioscaffolds biosculpturing biomimetism and bioinspiration as tools for the design of innovative materials are critically analyzed from both biological and materials science point of view using numerous unique examples of marine origin This monograph reviews the most relevant advances in the marine biomaterials research field pointing out several approaches being introduced and explored by distinct laboratories

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 aeroplysinin 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

Composites Richard Pemberton, John Summerscales, Jasper Graham-Jones, 2018-08-20 Marine Composites Design and Performance presents up to date information and recent research findings on the application and use of advanced fibre reinforced composites in the marine environment Following the success of their previously published title Marine Applications of Advanced Fibre reinforced Composites which was published in 2015 this exemplary new book provides comprehensive information on materials selection characterization and performance There are also dedicated sections on sandwich structures manufacture advanced concepts naval architecture and design considerations and various applications The book will be an essential reference resource for designers materials engineers manufactures marine scientists mechanical engineers civil engineers coastal engineers boat manufacturers offshore platform and marine renewable design engineers Presents a unique high level reference on composite materials and their application and use in marine structures Provides comprehensive coverage on all aspects of marine composites including the latest advances in damage modelling and assessment of performance Contains contributions from leading experts in the field from both industry and academia Covers a broad range of naval offshore and marine structures

Microbial Surfactants R.Z. Sayyed, Hesham Ali El-Enshasy, Bee Hameeda, 2021-11-29 Biosurfactants are the surface active biomolecules produced by microorganisms Biosurfactants have gained commercial significance due to their unique properties such as high surface activity high specificity low toxicity tolerance to pH temperature and ionic strength biodegradability excellent emulsifying and demulsifying ability antimicrobial activity ability to work under extreme conditions and relative ease of preparation Biosurfactants are used in several industries including organic chemicals petroleum petrochemicals mining metallurgy mainly bioleaching agrochemicals fertilizers foods beverages cosmetics pharmaceuticals and many others The aim of this book is to highlight key aspects from basics to advanced concepts classifications production and applications in various fields such as agriculture health bioremediation industries pharmaceutical oil recovery environment and nanotechnology It also serves as an excellent and expansive literature on fermentation recovery genomics and metagenomics of biosurfactant production The book focuses on the biosurfactant production from bacteria the diversity of biosurfactant producing bacteria and industrial need of biosurfactant

Marine Biomaterials Sougata Jana, Subrata Jana, 2022-04-23 This book provides updated information on marine based biomedical carriers and their therapeutic potential Marine biomaterials and bio based carriers show wide application in pharmaceutical and biomedical fields to deliver small and large molecules Biomaterial based composites scaffolds or matrix systems are sound systems for controlled and prolonged drug release in target sites and control the premature release of drugs or bioactive compounds This book discusses essential topics such as the therapeutic potential of marine collagen management of bone disorders gene delivery natural marine compounds in immunomodulation theranostic applications tissue engineering and regeneration It also describes the use of marine biopolymers in cancer therapy Different chapters describe the tissue engineering techniques to develop these carriers Marine biomaterial based systems are popular

for tissue engineering and biomedical imaging This book is ideal for industry experts students and researchers in pharmaceutical sciences and pharmacology Marine Biotechnology, Revealing an Ocean of Opportunities Ana Rotter,Susana P. Gaudêncio,Marlen Ines Vasquez,Arita Dubnika,2022-03-18 **Microbial Polymers** Anukool Vaishnav,Devendra Kumar Choudhary,2021-05-03 This book cover all types of microbe based polymers and their application in diverse sectors with special emphasis on agriculture It collates latest research methods opinion perspectives and reviews dissecting the microbial origins of polymers their production design and processing at industrial level as well as improvements for specific industrial applications Book also discusses recent advances in biopolymer production and their modification for amplifying the value In addition understanding of the microbial physiology and optimal conditions for polymer production are also explained This compilation of scientific chapters on principles and practices of microbial polymers fosters the knowledge transfer among scientific communities industries and microbiologist and serves students academicians researchers for a better understanding of the nature of microbial polymers and application procedure for sustainable ecosystem **Seaweed Biomaterials** Sabyasachi Maiti,Bibek Laha,2018 Seaweeds are the rich sources of naturally occurring valuable therapeutic substances Many different marine organisms have been explored for novel bioactive compounds that exhibit antiviral antitumor anticoagulant antidiabetic antimicrobial and antiinflammatory activities Nonetheless seaweed derived polysaccharides have also been studied for the design of different kinds of novel drug delivery systems Over the last 30 40 years research has been ongoing in the search for novel seaweed derived bioactive compounds This book covers up to date information on seaweed biomaterials and their therapeutic potentials *Functional Ingredients from Algae for Foods and Nutraceuticals* Herminia Dominguez,Leonel Pereira,Stefan Kraan,2023-07-28 Functional Ingredients from Algae for Foods and Nutraceuticals Second Edition presents an overview on the composition properties and potential to develop novel ingredients and additives for functional foods and nutraceuticals This revised edition includes recent data on the composition and biological properties of algae along with examples of the development of novel algae products and their performance It includes a new chapter on both conventional and green technologies for product development and will be of interest to nutrition researchers food technologists and marine scientists as well as those with an interest in natural product development Addresses the chemical nutritional and biological characterization of algae components Includes cases studies focused on bioactives and the development of novel food products Presents a new chapter on conventional and green technologies for product development *Microbial Colorants* Luqman Jameel Rather,Mohammad Shahid,Salman Jameel,2025-04-07 The book is a must buy for anyone interested in the burgeoning field of microbial colorants as it provides an extensive exploration of their sources chemistry and diverse applications while addressing crucial aspects of environmental sustainability and regulatory considerations Microbial Colorants Chemistry Biosynthesis and Applications offers a comprehensive and in depth exploration of microbial colorants covering their sources chemical properties

biosynthesis and a wide range of applications The volume compiles information on microbial and non conventional pigment sources as well as environmental sustainability and regulatory aspects surrounding their use The first half of the book delves into the sources and chemistry of microbial pigments covering a variety of topics including bacterial pigments fungal pigments algal and cyanobacterial colorants and more Readers will gain insight into the diverse world of microbial pigments and the science behind their vibrant colors The second half of the book focuses on the practical aspects of microbial colorants including extraction and purification techniques biotechnological approaches to enhance production environmental sustainability and regulatory considerations It also explores the numerous applications of microbial colorants in industries such as food cosmetics textiles and technology Microbial colorants are gaining increasing attention due to their natural and sustainable properties As the world seeks eco friendly alternatives to synthetic dyes and colorants microbial pigments offer a promising solution This book aims to bridge the knowledge gap by providing a comprehensive resource for researchers students and professionals interested in this emerging field Readers will find the book Explores various microbial pigments and their sources Reviews pigment isolation biosynthesis and processing techniques Discusses potential applications of pigments across a range of products in the food and beverage industry pharmaceutical industry and textile dyeing industry Covers food safety and toxicity aspects of using microbial pigments as food colorants and includes the latest innovations in the use of microbial pigments in the textile industrial sector for dyeing and finishing purposes Provides regulatory considerations and compliance requirements for using microbial colorants in various industries Audience The book is meant for researchers academics and industry experts working in fields related to pigment production chemistry isolation and applications in the food and beverage medicine and textile industries The book will be beneficial to synthetic organic chemists who work in the field of drug development

Innovative Biorefinery Processes for Agri-Food Value Chains Brijesh K Tiwari, Milica Pojic, Xianglu Zhu, 2025-08-01 Innovative Biorefinery Processes for Agri Food Value Chains provides detailed information on biorefinery concepts and technologies and their applications in agri food value chains It covers various topics related to biorefinery such as biomass feedstocks conversion technologies product recovery and economic and environmental sustainability Divided into five sections the first one brings the definitions and fundamental information of agri food biorefinery The second section explores biomass for agri food biorefinery Section three deals with technological aspects of biorefinery while Section four brings Novel value chains using renewable biomass for food biorefinery and bioproducts and Section five presents the environmental and social aspects of biorefinery The book also includes case studies and examples of successful biorefinery projects from around the world Edited by a team of experts in the field this book is a great resource for researchers academics industry professionals policymakers and graduate and post graduate students working in the fields of food science and technology agriculture and sustainable development Discusses the economic and environmental sustainability of biorefinery systems including their impact on the circular economy and the bioeconomy Covers the

application of biorefinery in agri food value chains including case studies and examples Explains biorefinery concepts and technologies including their benefits and limitations Chitin and Chitosan Gregorio Crini, 2022-06-15 Chitin and Chitosan Discoveries and Applications for Sustainability provides the most comprehensive knowledge on these organic biopolymers which come from the cellular makeup of crustaceans mollusks and arthropods This book synthesizes historical information fundamental properties industrial applications and recent discoveries and uses Written by an international expert on chitin and chitosan sources and uses the book discusses landmark discoveries and early uses in the research and applications of chitin and chitosan It then explores the international use of chitin and chitosan as organic solutions across various disciplines such as aquaculture agriculture food and beverage industries cosmetics and medicine Finally the book assesses their environmental applications for sustainable solutions such as wastewater treatments and future chitin and chitosan usage as an organic solution for a more sustainable green healthy planet Offers a comprehensive review of these biopolymers from their discovery to their use in our daily lives Details the main historical facts on their composition structure and properties Emphasizes the chemical and biological properties and applications of chitosan Describes key challenges and future trends

Biopolymer Based Micro- and Nano-Materials Nitar Nwe, 2015-04-27 This concise monograph series focuses on the implementation of various engineering principles in the conception design development analysis and operation of biomedical biotechnological and nanotechnology systems and applications Authors are encouraged to submit their work in the following core topics but authors should contact the commissioning editor before submitting a proposal 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

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