

HANDBOOK OF MARINE
MICROALGAE
BIOTECHNOLOGY ADVANCES

EDITED BY **SE-KWON KIM**



Handbook Of Marine Microalgae Biotechnology Advances

Ashfaq Ahmad, Syed Salman Ashraf



Handbook Of Marine Microalgae Biotechnology Advances:

Handbook of Marine Microalgae Se-Kwon Kim, 2015-04-30 Handbook of Microalgae Biotechnology Advances offers complete coverage of marine microalgae including biology production techniques biotechnological applications economic perspectives of applications and environmental effects of marine microalgae blooms With contributions from world experts Handbook of Microalgae Biotechnology Advances focuses on microalgae from an organism perspective to offer a complete picture from evolution to biofuel Focuses on a comprehensive approach from an organism point of view Contains full coverage of all aspects of microalgae from biology through biotechnological and biomedical applications Includes biological properties of commercial algal species Provides microalgae screening and identification methods culturing methods and new aspects of processing

Handbook of Marine Microalgae: Biotechnology Advances, 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

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

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

Progress in Microalgae Research Leila Queiroz Zepka,Eduardo Jacob-Lopes,Mariany Deprá,2022-11-02 Progress in Microalgae Research A Path for Shaping Sustainable Futures consolidates the latest research developments and advances in the field of microalgae biotechnology The book s chapters take a close look at and highlight the wide commercial potential of microalgae based processes and products This book is a useful resource for researchers and academic and industry professionals in the field of microalgae biotechnology

Photosynthesis: Molecular Approaches to Solar Energy Conversion Jian-Ren Shen,KimiYuki Satoh,Suleyman I. Allakhverdiev,2021-09-09 In the modern world to meet increasing energy demands we need to develop new technologies allowing us to use eco friendly carbon neutral energy sources Solar energy as the most promising renewable source could be the way to solve that problem but it is variable depending on day time and season From this side the understanding of photosynthesis process could be of significant help for us to develop effective strategies of solar energy capturing conversion and storage Plants algae and cyanobacteria perform photosynthesis annually producing around 100 billion tons of dry biomass Presently the detailed studies of photosynthetic system structure

make functional investigations of the photosynthetic process available allowing scientists to construct artificial systems for solar energy transduction This book summarizes exciting achievements in understanding of photosynthetic structures and mechanisms of this process made by world leaders in photosynthesis field and contains information about modern ideas in development of revolutionary new technologies of energy conversion Organized according to the natural sequence of events occurring during photosynthesis the book includes information of both photosynthetic structures and mechanisms and its applications in bioenergetics issues

Extremophiles Pratibha Dheeran,Sachin Kumar,2022-08-15 This book Extremophiles General and Plant Biomass Based Biorefinery explores the potential of extremophiles in industries and biomass based biorefinery The book sheds light on diversity and various applications of thermophiles psychrophiles halophiles alkaliphiles and acidophiles for the production of value added products including biofuels extremozymes etc The chapters comprehensively emphasize the utility of extremophiles in sustainable biorefinery bioprocesses This book is an integrated source of literature for scientists engineers academicians and students working in the area of extremophiles microbial technology and biorefinery

Biohydrogen Production: Sustainability of Current Technology and Future Perspective Anoop Singh,Dheeraj Rathore,2016-08-22 Increase in green renewable and sustainable energy demand due to higher environmental impacts e g Greenhouse gases emissions climate change etc on consumption of fossil fuel resource put down an extra pressure on government researchers and industrialists Among several available biofuel options biohydrogen is considered as one of the best environmentally clean fuel and a strong candidate to fulfil the future demand of sustainable energy resource Although biohydrogen production technology and its use as a fuel is still in infancy stage Selection of most sustainable production pathway increase in production upto industrial scale and cost efficiency are some issue still persist with the biohydrogen research Biohydrogen Production Sustainability of Current Technology and Future Perspective is giving an insight for the sustainable production of biohydrogen at industrial scale The process of biohydrogen production is complex and to opt the best suited production system for industrial scale is a frantic task This book will provide an in depth information on all available technologies for biohydrogen production and feedstock options to choose upon This book is also providing information on present status of the research in the field and possibility to change future fuel economy in to biohydrogen economy Experts views provided in the chapters by renowned researchers from all over the globe in the field of biohydrogen research made this book a cornucopia of present research and future perspective of biohydrogen This book is targeted at the researchers working on biohydrogen as well as the bioenergy scientist planning to move towards biohydrogen research This book will provide a platform for motivation of researchers and industrialists for innovative ideas and thoughts to bring biohydrogen production at industrial scale

Microorganisms for Sustainable Environment and Health Pankaj Chowdhary,Abhay Raj,Digvijay Verma,Yusuf Akhter,2020-07-21 Microorganisms for Sustainable Environment and Health covers hazardous pollutants released from natural as well as anthropogenic activities and implications on

environmental and human health This book serves as a valuable source of basic knowledge and recent developments in the clean technologies and pollution associated diseases and abnormalities in the context of microorganisms Focused on current solutions to various environmental problems in the field of bioremediation it provides a detailed knowledge on the various types of toxic environmental pollutants discharged from different sources their toxicological effects in environments humans animals and plants as well as their biodegradation and bioremediation approaches This book helps environmental scientists and microbiologists learn about existing environmental problems and suggests ways to control or contain their effects by employing various treatment approaches Provides information on waste treatment approaches using microbes Includes applications in biofuel and bioenergy production Covers green belt development hydroponics phytoremediation wetland treatment technology and common effluent treatment plants CETPs Discusses dissemination of antibiotic resistance among pathogenic microbes and strategies to combat multi drug resistance MDR

Health and Environmental Safety of Nanomaterials James Njuguna, Krzysztof Pielichowski, Huijun Zhu, 2021-07-24 The first edition of *Health and Environmental Safety of Nanomaterials Polymer Nanocomposites and Other Materials Containing Nanoparticles* was published in 2014 but since that time new developments in the field of nanomaterials safety have emerged both at release and exposure along with the expanding applications of the nanomaterials side Numerous studies have been dedicated to the issue of biophysical interactions of nanoparticles with the human body at the organ cellular and molecular levels In this second edition all the chapters have been brought fully up to date There are also four brand new chapters on the biophysical interaction of nanoparticles with the human body advanced modeling approaches to help elucidate the nanorisks safety measures at work with nanoparticles and the health and environmental risks of graphene It provides key knowledge and information needs for all those who are working in the research and development sector and need to learn more about the safety of nanomaterials Focuses on the health and safety of polymer nanocomposites and other materials containing nanoparticles as well as their medical and environmental implications Discusses the fundamental nature of various biophysical interactions of nanoparticles with the human body Looks at the physico chemistry of nanoparticles and their uptake translocation transformation transport and biodistribution in mammalian and plant systems Presents the structure activity relationships and modeling of the interactions of nanoparticles with biological molecules biochemical pathways analysis of biomolecular signatures and the development of biomarkers

Algae Biotechnology for Biomedical and Nutritional Applications Ashfaq Ahmad, Syed Salman Ashraf, 2025-01-06 Algal based functional foods have potential health benefits and their commercial value depends on their application in the food and nutraceutical industries *Algae Biotechnology for Biomedical and Nutritional Applications* provides a comprehensive overview of different micro and macroalgal species their industrial production processes and the latest advancements in and applications of algae in biomedical fields This book describes advances in the biomedical and nutritional applications of algae achieved during the last decade identifies gaps in the

present knowledge and proposes research areas for the future This book covers various aspects of algal biotechnology from the basics to large scale cultivation harvesting and processing for a variety of high value bioproducts Additionally it also covers topics such as algal biomaterials algal medicinal foods algal production for bio medicine as well as applications in pharmaceutical nutritional and value added bioproducts With contributions from an international array of expert researchers in the field this book is a comprehensive resource for academics researchers postgraduates graduate students and industry professionals Covers basic and applied research on scaling up algal biochemicals for commercial use Discusses the underexplored and underutilized health benefits of chemicals derived from marine sources specifically from algae Provides broad coverage of integrated algal biotechnology and engineering for biomedical issues and their solutions Provides a roadmap for potential applications of integrated algal biotechnology in dietary supplements and biomedical product

Biomarkers in Cancer Detection and Monitoring of Therapeutics Ranbir Chander Sobti,Masatoshi

Watanabe,Aastha Sobti,2023-11-16 Molecular Biomarkers in Cancer Detection and Monitoring of Therapeutics Volume Two Diagnostic and Therapeutic Applications discusses how molecular biomarkers are used to determine predisposition facilitate detection improve treatment and offer prevention guidelines for different cancers It focuses on novel diagnostic techniques based on molecular biomarkers and their impact on treatment covering different cancer types such as tumors in the nervous system head and neck oral and GI tract lung breast gastric system leukemia and urogenital tract cancers For each type the book discusses the best diagnostic techniques and therapeutic approaches thus helping readers easily identify the best solution for each case This is a valuable resource for cancer researchers oncologists graduate students and other members of the biomedical field who are interested in the potential of biomarkers in cancer research Provides up to date information on current molecular biomarkers research for cancer Presents new diagnostic techniques using biomarkers that can leverage quicker results that can be essential for patient s survivorship Discusses several novel therapeutics applied to specific cancer types such as head and neck oral GI tract breast lung and hepatocellular carcinomas

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 **CO2 Capture, Utilization, and Sequestration Strategies** Yatish T. Shah, 2021-11-11 Offering practical treatment strategies for CO2 emission generated from various energy related sources CO2 Capture Utilization and Sequestration Strategies emphasizes carbon capture utilization and sequestration CCUS with special focus on methods for each component of the strategy While other books mostly focus on CCS strategy for CO2 this book details the technologies available for utilization of CO2 showing how it can be a valuable renewable source for chemicals materials fuels and power instead of a waste material damaging the environment Highlights current and potential future commercially viable CCUS strategies Discusses applications for direct and the more complex indirect utilization of CO2 streams Examines viability of the mineral carbonation process and biological treatments to convert CO2 into useful biochemicals biomaterials and biofuels Explores heterogeneous catalysis for thermal and electrochemical conversion and solar energy based thermal photo thermal and photocatalytic conversion of CO2 Presents the rapidly growing concept of plasma activated catalysis for CO2 conversion CO2 Capture Utilization and Sequestration Strategies is a valuable reference for researchers in academia industry and government organizations seeking a guide to effective CCUS processes technologies and applications **Microalgae and One Health** Antonio Pérez-Gálvez, Eduardo Jacob-Lopes, Leila Queiroz Zepka, María Roca, 2025-06-26 Microalgae and One Health Fundamentals Biocompounds and Health and Environmental Applications provides a novel compendium of the interdisciplinary applications of microalgae Adverse global changes including climate change environmental pollution urbanization globalization industrialization and food insecurity are imminent threats to global health as they accelerate damage to humanity wildlife and the biosphere The One Health concept asserts that these contemporary challenges are entwined in the interdependence of humans animals and our shared environment This book examines the use of microalgae in human and animal nutrition healthcare and novel technologies applied to sustainable environmental processes Written by a globally diverse network of experts this book is systematically structured to illustrate the applications of microalgae The first section of the book covers the fundamentals of microalgae from chemistry to industry applications The next section further examines microalgae chemistry and identifies bioactive compounds Subsequent sections examine the utility of microalgae in One Health from human therapeutic potential to animal health and sustainability The book concludes with a comprehensive market analysis regulatory discussion and safety considerations associated with microalgae products Explores the interface between microalgae and the One Health approach Analyzes the contributions of microalgae based products to human animal and environmental health Addresses and offers solutions to market safety and regulatory issues **A Dictionary of Morrobolam** Jean-Christophe Verstraete, 2024-12-02

Morrobolam is a Lamalamic Paman Omega-3 Delivery Systems Pedro J. García-Moreno,Charlotte Jacobsen,Ann-Dorit Moltke Sørensen,Betül Yesiltas,2021-07-25 Omega 3 Delivery Systems Production Physical Characterization and Oxidative Stability offers the most recent updates for developing characterizing and stabilizing both traditional and novel omega 3 delivery systems including their final incorporation into food matrices and physicochemical changes during digestion The book brings chapters on novel omega 3 delivery systems e g high fat emulsions Pickering emulsions electrosprayed capsules and solid lipid nanoparticles the application of advanced techniques to evaluate physical and oxidative stabilities e g SAXS SANS ESR and super resolution fluorescence microscopy and new developments of food enrichment and physicochemical changes during digestion The book provides a unique multidisciplinary and multisectoral approach i e featuring authors from industry and academy Long chain omega 3 polyunsaturated fatty acids PUFA present numerous health benefits however the consumption of natural products rich in omega 3 PUFA e g fish krill and algae is not enough to reach the daily recommended values Therefore the food industry is highly interested in producing omega 3 fortified foods Brings a holistic approach of omega 3 delivery systems bringing scientific understanding on production physical characterization and oxidative stability Covers key aspects to develop characterize and use omega 3 delivery systems for food enrichment considering physicochemical changes occurring during digestion Serves as an interface between lipid oxidation and colloids chemistry encapsulation techniques soft matter physics food development and nutrients bioavailability **Microalgae for Environmental Biotechnology** Pau Loke Show,Wai Siong Chai,Tau Chuan Ling,2022-07-29 This is the first book to present the idea of using Industry 4 0 and smart manufacturing in the microalgae industry for environmental biotechnology It provides the latest developments on microalgae for use in environmental biotechnology explains process analysis from an engineering point of view and discusses the transition to smart manufacturing and how state of the art technologies can be incorporated It covers applications technologies challenges and future perspectives Showcases how Industry 4 0 can be applied in algae industry Covers new ideas generated from Industry 4 0 for Industrial Internet of Things IIoT Demonstrates new technologies invented to cater to Industry 4 0 in microalgae Features worked examples related to biological systems Aimed at chemical engineers bioengineers and environmental engineers this is an essential resource for researchers academics and industry professionals in the microalgae biotechnology field **Advanced Biofuels** Kalam Abul Azad,Mohammad Rasul,2019-06-09 Advanced Biofuels Applications Technologies and Environmental Sustainability presents recent developments and applications of biofuels in the field of internal combustion engines with a primary focus on the recent approaches of biodiesel applications low emission alternative fuels and environmental sustainability Editors Dr Azad and Dr Rasul along with their team of expert contributors combine a collection of extensive experimental investigations on engine performance and emissions and combustion phenomena using different types of oxygenated fuel with in depth research on fuel applications an analysis of available technologies and resources energy efficiency improvement methods and

applications of oxygenated fuel for the sustainable environment Academics researchers engineers and technologists will develop a greater understanding of the relevant concepts and solutions to the global issues related to achieving alternative energy application for future energy security as well as environmental sustainability in medium and large scale industries Fills a gap in the literature on alternative fuel applications with in depth research and experimental investigations of different approaches technologies and applications Considers the important issue of sustainability using case studies to deepen understanding Includes energy security within various industries including aviation and transport

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