

Algae and their Biotechnological Potential

Edited by Feng Chen and Yue Jiang

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Algae And Their Biotechnological Potential

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Algae And Their Biotechnological Potential:

Algae and their Biotechnological Potential Feng Chen, Yue Jiang, 2013-03-09 Algae are important organisms that include seaweeds and a number of single celled and multicellular microscopic forms Algae are ubiquitous they inhabit almost everywhere including oceans freshwater bodies rocks soils and trees Man s uses of algae may date back to ancient times In recent decades there has been renewed interest in the utilization of algae as sources of health food and high value chemicals and pharmaceuticals and for aquaculture agriculture and wastewater treatment Nevertheless the biotechnological potential of algae is still far from fully exploited due to a lack of understanding of algal characteristics and culture systems as well as of advanced research techniques This book contains selected papers presented at the Fourth Asia Pacific Conference on Algal Biotechnology held in Hong Kong on 3 6 July 2000 Written by experts in the field this book provides a state of the art account of algal biotechnology research Topics range from use of algae in agriculture to environmental monitoring and protection from algal culture systems to production of high value chemicals and pharmaceuticals by algae and from algal product purification to gene transformation and regulations This book is intended for use by researchers and industrialists in the field of algal biotechnology It will also be an important reference for undergraduate and postgraduate students in biotechnology and food science as well as in biology in general

Algae and their Biotechnological Potential Feng Chen, Yue Jiang, 2001-11-30 This book contains selected papers presented at the Fourth Asia Pacific Conference on Algal Biotechnology held in Hong Kong on 3 6 July 2000 Written by experts in the field this book provides a state of the art account of algal biotechnology research Topics range from use of algae in agriculture to environmental monitoring and protection from algal culture systems to production of high value chemicals and pharmaceuticals by algae and from algal product purification to gene transformation and regulations Midwest

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

Advances in Food and Nutrition Research Steve Taylor,2007-04-10 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 Contributions detail the scientific developments in the broad areas of food science and nutrition and are intended to ensure that food scientists in academia and industry as well as professional nutritionists and dieticians are kept informed concerning emerging research and developments in these important disciplines Series established since 1948 Advisory Board consists of 8 respected scientists Unique series as it combines food science and nutrition research

Microalgal Biotechnology: Potential and Production Clemens Posten,Christian Walter,2012-12-06 With the high interest in renewable resources the field of algal biotechnology has undergone a huge leap in importance in recent years The book treats the biological fundamentals of microalgal biotechnology in physiology and molecular biology and provides an overview of applications and products It furthermore includes a survey of the state of the art in process engineering of algae cultivation starting with mass production in open ponds and leading you to advanced technologies in closed photobioreactors Thus crucial enabling technologies reaching from genetic manipulation to bioprocess engineering are reviewed Contributions from academia and industrial case studies make this book a comprehensive survey of current progress in microalgae biotechnology So this book will be of interest to active people in biology biotechnology and engineering in the area of sustainable production of high value products or mass production of food and fuel for the future

Biopolymers for Biomedical and Biotechnological Applications Bernd H. A. Rehm,M. Fata Moradali,2021-07-06 Provides insight into biopolymers their physicochemical properties and their biomedical and biotechnological applications This comprehensive book is a one stop reference for the production modifications and assessment of biopolymers It highlights the technical and methodological advancements in introducing biopolymers their study and promoted applications Biopolymers for Biomedical and Biotechnological Applications begins with a general overview of biopolymers properties and biocompatibility It then provides in depth information in three dedicated sections Biopolymers through Bioengineering and Biotechnology Venues Polymeric Biomaterials with Wide Applications and Biopolymers for Specific Applications Chapters cover advances in biocompatibility advanced microbial polysaccharides microbial cell factories for biomanufacturing of polysaccharides exploitation of exopolysaccharides from lactic acid bacteria and the new biopolymer for biomedical

application called nanocellulose Advances in mucin biopolymer research are presented along with those in the synthesis of fibrous proteins and their applications The book looks at microbial polyhydroxyalkanoates PHAs as well as natural and synthetic biopolymers in drug delivery and tissue engineering It finishes with a chapter on the current state and applications of and future trends in biopolymers in regenerative medicine Offers a complete and thorough treatment of biopolymers from synthesis strategies and physiochemical properties to applications in industrial and medical biotechnology Discusses the most attracted biopolymers with wide and specific applications Takes a systematic approach to the field which allows readers to grasp and implement strategies for biomedical and biotechnological applications Biopolymers for Biomedical and Biotechnological Applications appeals to biotechnologists bioengineers and polymer chemists as well as to those working in the biotechnological industry and institutes

Advances in Microbial Physiology, 2023-03-20 Advances in Microbial Physiology Volume 82 in this serial that highlights new advances in the field presents interesting chapters on a variety of topics including Protein secretion via the Type I secretion system Purine utilization by enterobacteria Microbiology of Algae Growth of enteric bacteria in the intestine on C4DCs Governance of C4DC transporters in metabolic adaptation and genetic control Biological functions of bacterial lysophospholipids and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Microbial Physiology series

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

Biochemical Engineering and Biotechnology Ghasem Najafpour, 2025-03-27 Biochemical Engineering and Biotechnology Third Edition continues to outline the principles of

biochemical processes and explain their use in the manufacturing of everyday products The author uses a direct approach that proved to be very useful for graduate students and fellow research scientists in following the concepts of biochemical engineering and practical applications related to the field of biotechnology This book is unique in having many solved problems case studies examples and demonstrations of detailed experiments with simple design equations and required calculations All chapters are fully revised and updated and include the latest research results in the field of biochemical engineering and biotechnology The new edition emphasizes practical aspects microorganisms and upgrades of new types of membrane bioreactors and it contains more case studies and solved problems along with seven new chapters on recent topics in biosensors bioanode nanoscience hydrogel conceptual investigations on biological processes for industrial wastewater treatment and algal growth Biochemical Engineering and Biotechnology Third Edition remains an indispensable reference for researchers in bioprocess engineering chemical and physical biological treatment of industrial wastewater enzyme technology fermentation processes nanoparticle synthesis for antibiotic loading medicine and drug delivery Fully revised and updated new edition including the latest research results in biochemical engineering and biotechnology Expanded with seven new chapters covering biosensors bioanode microalgae growth nanoscience industrial wastewater treatment and exopolysaccharide Indispensable reference for researchers in chemical physical and biological treatment of industrial wastewater membrane bioreactors biosensors and bioanodes application in microbial fuel cells Strong emphasis on practical aspects and case studies including extensive applications of biotechnology in biochemical engineering

Microalgal Biotechnology Jeyabalan Sangeetha,Svetlana Codreanu,Devarajan Thangadurai,2023-04-20 Microalgae are a valuable resource of carbon materials that may be used in biofuels pharmaceuticals cosmetics and health supplements There are however many challenges in the microalgae production process such as mass cultivation strain improvement biomass disruption and reprocessing of nutrients and water that have been encumbering the microalgal industry Microalgal biotechnology has the capability to introduce remarkable breakthroughs and innovations This volume highlights current advancements in the field of microalgal biotechnology The key features of the book Presents the role of microalgae in various industries including food agriculture aquaculture biofuel and metabolites Shows the historical and prospective uses of microalgae elements for economic and ecological benefits Explains the integrated technologies for massive production of microalgae derived products Includes industrial case studies that illustrate sustainable production of microalgae products Discusses current developments and advances in microalgae bioprocessing *Trends in Biotechnology of Polyextremophiles* Maulin P. Shah,Satarupa Dey,2024-06-27 This book covers polyextremophiles the latest biotechnological advances and developments in the study of extremophilic diversity with a focus on genetics proteomics and the impact of climate change It sets out new perspectives on the polyextremophiles mechanism of tolerance to extreme conditions and it also outlines their applications in bioremediation therapeutics and astrobiology research Expert contributors discuss topics such as genes

associated with polyextremophiles the applications of genome editing in extremophiles secondary metabolites from extremophiles and the biocatalytic potential of extremozymes isolated from extremophiles Readers will find in this book several case studies that collate the diverse applications of polyextremophiles for bioremediation including the use of extremophilic algae in wastewater treatment nutrient recovery and animal feed production the treatment of industrial waste pharmaceuticals and personal care products and the removal of microplastics heavy metals and E waste Particular attention is given to the use of polyextremophiles for bioremediation of abandoned mining sites The book also presents bioactive compounds from halophiles and their biomedical applications and discusses the implications of polyextremophiles in astrobiology research Given its breadth this book is a valuable contribution to the biotechnology of polyextremophiles by over-viewing research to date and exploring challenges and opportunities for future research It also benefits a broad readership from scholars researchers and students to industry professionals interested in the study and development of biotechnological applications of polyextremophiles

Seaweeds and their Role in Globally Changing Environments

Alvaro Israel,Rachel Einav,Joseph Seckbach,2010-06-18 Global warming is accelerating faster than the ability for natural repair and environmental stresses are damaging ecosystems all affecting physical and biological systems on Earth A new Nasa led study shows that human activity has caused climate changes resulting in permafrost thawing acid rain and lower productivity in lakes as well as increased emissions of greenhouse gases including CO₂ N₂O CH₄ CF₃ and CFC Marine plants play a vital role in maintaining the balance of marine environments while serving as a source of food for humankind and important chemical compounds Microalgae and seaweed have enormous potential for reducing global warming and climate change During photosynthesis algae grow draw CO₂ from the atmosphere release oxygen and produce solar biofuel Experts in the life of marine plant ecosystems in globally changing environments contributed chapters to this book The target readers are phycologists ecologists atmospheric scholars conservationists environmentalists and ecologically aware laymen

Examining Fungi and Protists Louise Eaton,Kara Rogers,2017-12-15 The amazing diversity of fungi protists and algae is in many instances difficult to detect with the naked eye Readers will learn all about the internal structures genetic material biochemical processes and taxonomy that define these varied small yet complex eukaryotic organisms This volume demonstrates the many important functions that fungi protists and algae serve in the natural world as well as in the lives of humans through various foods medicines and biotechnologies

Handbook of Nanoencapsulation Jasmeet Kour,Raees Ul Haq,Sajad Ahmad Wani,Bhaskar Jyoti,2023-04-05 Nutraceutical encapsulation envelopes protection of products from oxidative damage controlled delivery of nanoencapsulated nutraceuticals and improved nutraceutical bioavailability as well as biological action It is a promising technique to ensure the stabilization of such labile compounds and to protect the core ingredients from premature reactions and interactions In a comprehensive manner the Handbook of Nanoencapsulation Preparation Characterization Delivery and Safety of Nutraceutical Nanocomposites presents various nanosystems

nanocarriers physical and chemical techniques used in encapsulation of various nutraceuticals and the targeted delivery of various significant nutraceuticals This book bridges the gap between academia and research as it encompasses the ubiquitous applications of nanoencapsulation technique used on significant nutraceuticals derived from plants animals as well as microalgae Key Features Provides a quick and easy access to major plant animal and microalgae derived nutraceutical ingredients Discusses nanoencapsulation techniques for protection and targeted release of various food bioactive ingredients Covers safety bioaccessibility and multiple applications of nanoencapsulated nutraceuticals in the food industry Unveiling pivotal aspects of nanoencapsulation of significant nutraceuticals this book is a valuable resource for researchers food toxicologists food scientists nutritionists and scientists in medicinal research **Plant Secondary**

Metabolites Santosh Kumar Upadhyay, Dev Bukhsh Singh, 2025-09-12 This book explores the pharmacological potentials of various classes of plant secondary metabolites The initial chapter introduces the chemical diversity biosynthesis pathways and ecological functions of plant secondary metabolites It discusses the pivotal role of transcription factors in regulating their production Furthermore the book examines the specific classes of secondary metabolites such as phenolic compounds terpenes and anthocyanins highlighting their properties and various applications across the food cosmetics and pharmaceutical industries This book delves into emerging areas such as plant metabolites as nutraceuticals the utilization of horticultural and vegetable crops for secondary metabolite production and the exploration of staple crops for health improvements The chapters discuss the applications of fungal endosymbionts and algal sources in shaping plant metabolite compositions The chapters further review innovative techniques such as hairy root engineering and recombinant systems for enhancing metabolite production The book concludes with a detailed overview of methods for isolating and identifying secondary metabolites This book is an essential resource for students researchers and professionals of ethnopharmacology pharmaceutical sciences botany and biomedical sciences Key Features 1 Covers various classes of plant secondary metabolites and their pharmacological potentials 2 Explores the role of transcription factors in controlling secondary metabolite production in plants 3 Discusses secondary metabolites from horticultural and vegetable crops highlighting their pharmaceutical applications 4 Presents techniques like hairy root engineering and recombinant systems for enhancing metabolite production 5 Examines lichen metabolites and their applications in human health as well as metabolites from gymnosperms **Functional Foods, Cardiovascular Disease and Diabetes** A Arnoldi, 2004-08-26 Cardiovascular disease

and Type II diabetes are a growing problem for the developed world putting an ever greater strain on healthcare systems Edited by a leading authority this important collection reviews the role of functional foods in helping to prevent these chronic diseases Two introductory chapters provide a context for the rest of the book by assessing the potential of functional foods to prevent disease and the key issues concerning health claims Part one examines the importance of diet in the prevention of cardiovascular disease and diabetes with chapters on fat soluble nutrients antioxidants and iron intake Part two focuses on

the role of phytochemicals in preventing cardiovascular disease including chapters on isoflavones and plant sterols Part three addresses the control of dietary fat including the use of polyunsaturated fatty acids and fat replacers The final part of the book reviews the use of starch and other functional ingredients in controlling cardiovascular disease with individual chapters on cereal beta glucans grain legumes and food fermentation by lactic acid bacteria Functional foods cardiovascular disease and diabetes is a standard reference for all those concerned with the role of functional foods in the prevention and control of cardiovascular disease and diabetes Reviews functional foods connection to preventing chronic diseases Examines the potential and limitations of dietary influences Illustrates health benefits associated with diverse food groups Technologies and Innovations for Sustainable Development Anjana Pandey,Rakesh Kumar,Ashutosh Pandey,2025-03-13 Technologies and Innovations for Sustainable Development offers a comprehensive exploration of cutting edge solutions that can help us build a greener more equitable future Too often technologies are either not developed for a sufficiently profitable market or if developed are not accessible or well adapted to end user needs This edited book seeks to advance knowledge and understanding of how to equitably improve the functioning of the global innovation system for sustainable development of technologies This volume aims to examine specific cases of system interventions e g policy interventions institutional innovations new approaches to shaping the innovation process etc intended to strengthen the global innovation system with the broader aim of developing policy recommendations and are generalizable across multiple sectors This book brings together contributions from leading experts across diverse fields showcasing the latest advancements in technology and innovative practices that address pressing sustainability issues From hydrogen production and fuel blending to waste management and additive manufacturing process and application of emerging technologies such as machine learning deep learning and CFD simulation this book provides a roadmap for harnessing innovation to achieve global sustainability goals Key features include An integrative overview of emerging and cutting edge solutions to sustainable development Discussion on policy framework to address global environmental and public health challenges Forward looking insights into emerging trends and future directions in sustainable development Whether you are a policymaker researcher industry professional or student Technologies and Innovations for Sustainable Development is an essential resource for understanding the pivotal role of technology in creating a sustainable future Join us in exploring the innovations that hold the key to a better world for generations to come **Biomass and Biofuels from Microalgae** Navid R. Moheimani,Mark P. McHenry,Karne de Boer,Parisa A. Bahri,2015-04-11 This comprehensive book details the most recent advances in the microalgae biological sciences and engineering technologies for biomass and biofuel production in order to meet the ongoing need for new and affordable sources of food chemicals and energy for future generations The chapters explore new microalgae cultivation techniques including solid biofilm systems and heterotrophic production methods while also critically investigating topics such as combining wastewater as a source of nutrients the effect of CO₂ on growth and converting biomass to methane

through anaerobic digestion The book highlights innovative bioproduct optimization and molecular genetic techniques applications of genomics and metabolomics and the genetic engineering of microalgae strains targeting biocrude production The latest developments in microalgae harvesting and dewatering technologies which combine biomass production with electricity generation are presented along with detailed techno economic modeling This extensive volume was written by respected experts in their fields and is intended for a wide audience of researchers and engineers

Microalgae Milada Vítová, 2020-01-22 The term microalgae is often used in the algal research community to collectively describe microscopic algae and cyanobacteria Research of microalgae has expanded enormously namely because of their significant commercial potential The thorough knowledge of the physiology of microalgae must precede any commercial exploitation We have to understand the mechanisms underlying the physiological and biochemical processes in the algal cells The book *Microalgae From Physiology to Application* covers major aspects of microalgae physiology and the possible applications in the sphere of biotechnology This book gives a comprehensive overview of what is known about microalgae growth and production secondary metabolites and development of new species and products for commercialization This volume should allow readers at all levels an entry into the exciting world of algal research

Algae Biomass: Characteristics and Applications Katarzyna Chojnacka, Piotr Pawel Wiczorek, Grzegorz Schroeder, Izabela Michalak, 2018-07-09 This book is a compendium of knowledge on the useful properties of algae in the context of application as a useful component of innovative natural products It presents all aspects of industrial applications of macroalgae biomass derived from the natural environment Despite many interesting characteristics algae are still regarded as undervalued raw material therefore present in the following chapters are not only environmental benefits arising from the development of excessive algal biomass but also the distribution and biology of algae in natural conditions in reservoirs methods of obtaining extracts from biomass of algae for industrial purposes Furthermore it also includes topics such as the use of biomass and algae extracts for the industrial purposes in animal breeding and for agricultural purposes as well as the economic aspects of algae biomass harvesting for industrial purposes The book is intended for a wide audience interested in new methods of obtaining the biomass from the natural environment for industrial purposes and the manufacture of products based on bioactive substances obtained from the environment

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Algae And Their Biotechnological Potential Introduction

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