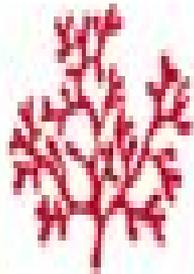




Brown algae

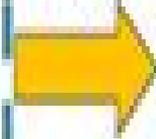


Red algae



Green algae

Extract



Fucoidan



Alginate



Carrageenan



Porphyran



Agar



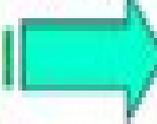
Ulvan



Sulfated rhamnan



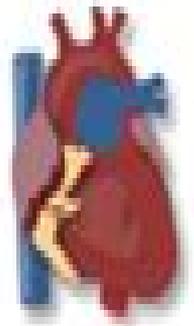
Effect



Atherosclerosis



Heart disease



Stroke



Polysaccharides Producing Marine Algae Wordpress

Herminia Dominguez



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Blue Biotechnology Stephane La Barre, Stephen S. Bates, 2018-12-10 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 *Chemistry and Enzymology of Marine Algal Polysaccharides* Elizabeth Percival, Richard H. McDowell, 1967 [Marine Polysaccharides](#) Vazhiyil Venugopal, 2016-04-19 Increased public awareness of the importance of healthy living presents new challenges for the commercial food processing sector The industry is always on the hunt for novel and safe additives with functional properties that can be used to impart healthy and appealing properties to foods While the ocean is known as a conventional source of fish p **Marine Polysaccharides Volume 2** Paola Laurienzo (Ed.), 2018 The field of marine polysaccharides is constantly evolving due to progress in the discovery and production of new marine polysaccharides Seaweed remains the most abundant source of polysaccharides but recent advances in biotechnology have allowed the production of large quantities of polysaccharides from a variety of micro algae by controlling growth conditions and tailoring the production of bioactive compounds in a bioreactor Of particular interest are polysaccharides produced by micro organisms from extreme marine environments due to their recognized different biochemistry Extracellular polysaccharides EPSs with unique properties produced by a number of micro algae are known The first volume is a collection of papers concerning the identification and characterization of novel marine polysaccharides It is divided into three chapters the first two are dedicated to polysaccharides from different marine sources algae micro algae animals while the third one gathers information on the isolation characterization and bioactivity of new EPSs **Marine Polysaccharides Volume 3** Paola Laurienzo (Ed.), 2018 The field of marine polysaccharides is constantly evolving due to progress in the discovery and production of new marine polysaccharides Seaweed remains the most abundant source of polysaccharides but recent advances in biotechnology have allowed the production of large quantities of polysaccharides from a variety of micro algae by controlling growth conditions and tailoring the production of bioactive compounds in a bioreactor Of particular interest are polysaccharides produced by micro organisms from extreme marine environments due to their recognized different biochemistry Extracellular polysaccharides EPSs with unique properties produced by a number of micro algae are known The first volume is a collection of papers concerning the identification and characterization of novel

marine polysaccharides It is divided into three chapters the first two are dedicated to polysaccharides from different marine sources algae micro algae animals while the third one gathers information on the isolation characterization and bioactivity of new EPSs *Marine Algae Extracts* Se-Kwon Kim,Katarzyna Chojnacka,2015-01-30 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 Polysaccharides Volume 1** Paola Laurienzo (Ed.),2018 The field of marine polysaccharides is constantly evolving due to progress in the discovery and production of new marine polysaccharides Seaweed remains the most abundant source of polysaccharides but recent advances in biotechnology have allowed the production of large quantities of polysaccharides from a variety of micro algae by controlling growth conditions and tailoring the production of bioactive compounds in a bioreactor Of particular interest are polysaccharides produced by micro organisms from extreme marine environments due to their recognized different biochemistry Extracellular polysaccharides EPSs with unique properties produced by a number of micro algae are known The first volume is a collection of papers concerning the identification and characterization of novel marine polysaccharides It is divided into three chapters the first two are dedicated to polysaccharides from different marine sources algae micro algae animals while the third one gathers information on the isolation characterization and bioactivity of new EPSs *Use of Colloidal Polysaccharides from Marine Algae in the Bread-baking Industry* N. P. Kozmina,V. I. Baranova,1968 **Seaweed Polysaccharides** Jayachandran Venkatesan,Sukumaran Anil,Se-Kwon Kim,2017-05-30 Seaweed Polysaccharides Isolation Biological and Biomedical Applications examines the isolation and characterization of algal biopolymers including a range of new biological and biomedical applications In recent years significant developments have been made in algae based polymers commonly called polysaccharides and in biomedical applications such as drug delivery wound dressings and tissue engineering Demand for algae based polymers is increasing and represent a potential very inexpensive resource for these applications The structure and chemical modification of algal polymers are covered as well as the biological properties of these materials including antithrombic anti inflammatory anticoagulant and antiviral aspects Toxicity of algal biopolymers is also covered Finally the book introduces and explains real world applications of algal based biopolymers in biomedical applications including tissue engineering drug delivery and biosensors This is the first book to cover the extraction techniques biomedical applications and the economic perspective of seaweed polysaccharides It is an essential text for researchers and industry professionals looking to work with this renewable resource Provides comprehensive coverage of the research currently taking place in

biomedical applications of algae biopolymers Includes practical guidance on the isolation extraction and characterization of polysaccharides from sustainable marine sources Covers the extraction techniques biomedical applications and economic outlook of seaweed polysaccharides *Marine Polysaccharides* Paola Laurienzo,2018 The field of marine polysaccharides is constantly evolving due to progress in the discovery and production of new marine polysaccharides Seaweed remains the most abundant source of polysaccharides but recent advances in biotechnology have allowed the production of large quantities of polysaccharides from a variety of micro algae by controlling growth conditions and tailoring the production of bioactive compounds in a bioreactor Of particular interest are polysaccharides produced by micro organisms from extreme marine environments due to their recognized different biochemistry Extracellular polysaccharides EPSs with unique properties produced by a number of micro algae are known The first volume is a collection of papers concerning the identification and characterization of novel marine polysaccharides It is divided into three chapters the first two are dedicated to polysaccharides from different marine sources algae micro algae animals while the third one gathers information on the isolation characterization and bioactivity of new EPSs Marine Polysaccharides: An Applied Approach Stephan Blackwood,2022-09-13 Polysaccharides are long polymeric chains of carbohydrates They are composed of monosaccharide units which are linked together by glycosidic linkages These biomolecules react with water to form constituent sugars Marine polysaccharides are carbohydrates of marine origin These are sulfated polysaccharides which are produced by concomitant fixation of sulphur and carbon Some common examples of marine polysaccharides are chitosan chitin carrageenan fucoidan and alginate These carbohydrates are gaining popularity as they have low extraction cost and are soluble in aqueous solution and extraction media Seaweeds and exoskeletons of crustaceans are some of the major resources of marine polysaccharides They find extensive application in the field of pharmaceuticals nutraceuticals cosmeceuticals and tissue engineering There has been rapid progress in this field and its applications are finding their way across multiple industries The various advancements in the study of marine polysaccharides are glanced at and their applications as well as ramifications are looked at in detail The topics covered in this book offer the readers new insights on marine polysaccharides Multifunctional Marine Polysaccharides Sougata Jana,Subrata Jana,John F. Kennedy,2026-01-08 This book offers a comprehensive overview of marine polysaccharides detailing their preparation characterization and evaluation along with their wide ranging applications in drug delivery biomedical science and food technology By illuminating the versatile roles of these natural polymers it provides readers with a fresh perspective on their potential to drive innovation across multiple sectors The chapters highlight a wide range of specific applications including the use of plant derived marine polysaccharides in oral drug delivery marine seaweed polysaccharides in antiviral therapies and marine animal polysaccharides in targeted drug delivery Additional topics include microbial polysaccharides for sustained release systems algal polysaccharides in anticancer treatments and liver disease management sulfated marine polysaccharides for

managing diabetic nephropathy and the application of marine derived polysaccharides in anti allergic formulations The book also examines their roles in tissue regeneration wound healing theranostics and highlights their contributions to food processing preservation and packaging emphasizing their importance in food safety and regulatory compliance As eco friendly renewable resources derived from marine plants animals microbes and algae marine polysaccharides possess inherent properties such as biodegradability biocompatibility nontoxicity low cost and abundance making them ideal candidates for biomedical pharmaceutical and food technology applications Their structural diversity and biological functionality further position them as promising materials for drug discovery and therapeutic innovation as introduced throughout the book This book is an essential reference for researchers scholars and professionals in pharmaceuticals biomedical engineering nanotechnology and materials science With full color illustrations and accessible explanations it is especially valuable for early career researchers seeking to innovate in their fields

Functional Ingredients from Algae for Foods and Nutraceuticals Herminia Dominguez, 2013-09-30 Algae have a long history of use as foods and for the production of food ingredients There is also increasing interest in their exploitation as sources of bioactive compounds for use in functional foods and nutraceuticals Functional ingredients from algae for foods and nutraceuticals reviews key topics in these areas encompassing both macroalgae seaweeds and microalgae After a chapter introducing the concept of algae as a source of biologically active ingredients for the formulation of functional foods and nutraceuticals part one explores the structure and occurrence of the major algal components Chapters discuss the chemical structures of algal polysaccharides algal lipids fatty acids and sterols algal proteins phlorotannins and pigments and minor compounds Part two highlights biological properties of algae and algal components and includes chapters on the antioxidant properties of algal components anticancer agents derived from marine algae anti obesity and anti diabetic activities of algae and algae and cardiovascular health Chapters in part three focus on the extraction of compounds and fractions from algae and cover conventional and alternative technologies for the production of algal polysaccharides Further chapters discuss enzymatic extraction subcritical water extraction and supercritical CO₂ extraction of bioactives from algae and ultrasonic and microwave assisted extraction and modification of algal components Finally chapters in part four explore applications of algae and algal components in foods functional foods and nutraceuticals including the design of healthier foods and beverages containing whole algae prebiotic properties of algae and algae supplemented products algal hydrocolloids for the production and delivery of probiotic bacteria and cosmeceuticals from algae Functional ingredients from algae for foods and nutraceuticals is a comprehensive resource for chemists chemical engineers and medical researchers with an interest in algae and those in the algaculture food and nutraceutical industries interested in the commercialisation of products made from algae Provides an overview of the major compounds in algae considering both macroalgae seaweeds and microalgae Discusses methods for the extraction of bioactives from algae Describes the use of algae and products derived from them in the food and nutraceutical

industries *A Study on the Water-soluble Polysaccharides of Marine Algae (Emteromorpha Sp.)* □□□,1960 Biological Activities and Application of Marine Polysaccharides Emad Shalaby,2017-01-11 Marine organisms have been under research for the last decades as a source for different active compounds with various biological activities and application in agriculture pharmacy medicine environment and industries Marine polysaccharides from these active compounds are used as antibacterial antiviral antioxidant anti inflammation bioremediations etc During the last three decades several important factors that control the production of phytoplankton polysaccharides have been identified such as chemical concentrations temperature light etc The current book includes 14 chapters contributed by experts around the world the chapters are categorized into three sections Marine Polysaccharides and Agriculture Marine Polysaccharides and Biological Activities and Marine Polysaccharides and Industries BIOTECH MARINE POLYSACCHARIDES Rita R. Colwell,Ernst R. Pariser,Anthony J. Sinskey,1985 *Marine Algae in Pharmaceutical Science. Vol. 1* Tore Levring,Yukio Tanaka,2013-05-22 No detailed description available for MARINE ALGAE IN PHARMACEUTICAL SCIENCE VOL 1 E BOOK **Polysaccharide Utilization by Bacteria Associated with Micro- and Macroalgae** Fengqing Wang,2024 Algae play a crucial role in marine carbon cycling This involves various polysaccharides of different functions to which algae convert a significant proportion of their photoassimilated organic carbon Suitable conditions provided microalgae phytoplankton can proliferate very fast During such blooms substantial quantities of dissolved and particulate polysaccharide rich organic matter are released to the environment both by exudation of living and by decomposition of dead algal cells While research on the community and functional dynamics of free living bacteria during phytoplankton blooms is extensive knowledge about particle attached bacteria especially regarding taxonomic composition and associated gene functions is limited Like planktonic microalgae sessile macroalgae are also rich in polysaccharides and harbor bacteria with significant potential for polysaccharide degradation particularly for complex polysaccharides However research on macroalgal phycosphere microbes so far primarily focused on community composition studies via 16S rRNA gene amplicon sequencing and meta genomic analysis of single algal species or a limited number of samples This thesis provides a comprehensive exploration of microalgae associated microbial communities during phytoplankton blooms and of macroalgae associated phycosphere communities both with a focus on polysaccharide utilization functions Chapter I establishes the theoretical foundation of this thesis It starts out with a review of the critical roles that micro and macroalgae play within the marine carbon budgets It then narrows down to explore phytoplankton blooms key events in marine carbon cycling marked by rapid carbon fixation remineralization and release The studies of marine particles are summarized Afterwards common polysaccharides of micro and macroalgae are introduced as well as the mechanisms of bacterial polysaccharide utilization Then research methodologies in microbial ecology are outlined with a focus on the analysis of omics data which form the core methodologies in the two subsequent chapters and finally the chapter closes with a summary of the research questions that this thesis aims to address In Chapter

II I present a study in which I explored dynamic shifts in community composition and polysaccharide degradation functions of particle attached bacteria throughout an extensive phytoplankton bloom in contrast to those of free living bacteria Bloom progression was captured using microscopic chlorophyll a and 18S rRNA gene amplicon data at high temporal resolution I identified abundant bacterial clades using corresponding high resolution 16S rRNA gene amplicon sequencing across three filter size fractions during the bloom Through metagenome data analysis using both short and long read sequencing I then identified and explored abundant polysaccharide degrading bacteria Additionally metaproteome data were analyzed to correlate bacterial proteins with the breakdown of algal glycans The combined results indicated that similar to their free living counterparts particle attached polysaccharide degrading bacteria targeted soluble and structurally simple polysaccharides such as laminarin However they also possessed abundant genes dedicated to the degradation of insoluble and structurally complex polysaccharides setting them apart in their functional capabilities As detailed in Chapter III I had a major part in analyzing the composition and polysaccharide utilization functions of macroalgal phycosphere bacteria on four types of macroalgae across the four seasons Comparisons were made with microbial communities in surrounding seawater and sediment revealing fourteen core genera consistently present on all algae Metagenome analysis focused on polysaccharide degradation and secondary metabolite production while cultivation techniques yielded pure isolates for draft genome sequencing A high cultivability of macroalgal phycosphere bacteria enabled sequencing of numerous isolates offering insights into a manifold of polysaccharide utilization loci and their possible polysaccharide substrates Chapter IV presents a comparative analysis of particle attached bacteria originating from microalgae versus those from macroalgal phycospheres a pioneering endeavor not previously undertaken This way I identified dominant bacteria shared between both studied communities alongside unique clades specific to each community Furthermore the advantages of utilizing PacBio metagenome sequencing drafting genome sequences of cultivable strains and the application of multiple databases for functional annotation are discussed including insights to enhance the study of particle attached bacteria and isolated strains The thesis then closes with an outlook with a proposal for future projects

Extraction, Characterization and Biological Effects of Polysaccharides from Marine (micro)algae, 2022

Functional Ingredients from Algae for Foods and Nutraceuticals Herminia Dominguez, 2017-11-13 Algae have a long history of use as foods and for the production of food ingredients There is also increasing interest in their exploitation as sources of bioactive compounds for use in functional foods and nutraceuticals Functional ingredients from algae for foods and nutraceuticals reviews key topics in these areas encompassing both macroalgae seaweeds and microalgae After a chapter introducing the concept of algae as a source of biologically active ingredients for the formulation of functional foods and nutraceuticals part one explores the structure and occurrence of the major algal components Chapters discuss the chemical structures of algal polysaccharides algal lipids fatty acids and sterols algal proteins phlorotannins and pigments and minor compounds Part two highlights biological properties

of algae and algal components and includes chapters on the antioxidant properties of algal components anticancer agents derived from marine algae anti obesity and anti diabetic activities of algae and algae and cardiovascular health Chapters in part three focus on the extraction of compounds and fractions from algae and cover conventional and alternative technologies for the production of algal polysaccharides Further chapters discuss enzymatic extraction subcritical water extraction and supercritical CO₂ extraction of bioactives from algae and ultrasonic and microwave assisted extraction and modification of algal components Finally chapters in part four explore applications of algae and algal components in foods functional foods and nutraceuticals including the design of healthier foods and beverages containing whole algae prebiotic properties of algae and algae supplemented products algal hydrocolloids for the production and delivery of probiotic bacteria and cosmeceuticals from algae Functional ingredients from algae for foods and nutraceuticals is a comprehensive resource for chemists chemical engineers and medical researchers with an interest in algae and those in the algaculture food and nutraceutical industries interested in the commercialisation of products made from algae Provides an overview of the major compounds in algae considering both macroalgae seaweeds and microalgae Discusses methods for the extraction of bioactives from algae Describes the use of algae and products derived from them in the food and nutraceutical industries

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