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Marine Biotechnology II

 Springer

Marine Biotechnology I Advances In Biochemical Engineering Biotechnology

Yves Le Gal, Roland Ulber



Marine Biotechnology I Advances In Biochemical Engineering Biotechnology:

Marine Biotechnology I Garabed Antranikian, 2005-09-29 The series *Advances in Biochemical Engineering Biotechnology* presents critical reviews of the present and future trends in polymer and biopolymer science including chemistry physical chemistry physics and material science It is addressed to all scientists at universities and in industry who wish to keep abreast of advances in the topics covered Title page verso Marine Biotechnology, 2005 *Marine Biotechnology II* Yves Le Gal, Roland Ulber, 2005-09-29 The series *Advances in Biochemical Engineering Biotechnology* presents critical reviews of the present and future trends in polymer and biopolymer science including chemistry physical chemistry physics and material science It is addressed to all scientists at universities and in industry who wish to keep abreast of advances in the topics covered Title page verso *Marine Biotechnology I* Yves Le Gal, Roland Ulber, 2005-10-11 This review series covers trends in modern biotechnology including all aspects of this interdisciplinary technology requiring knowledge methods and expertise from chemistry biochemistry microbiology genetics chemical engineering and computer science Marine Biotechnology, 2005 Marine Enzymes Biotechnology: Production and Industrial Applications, Part II - Marine Organisms Producing Enzymes, 2016-10-18 *Marine Enzymes Biotechnology Production and Industrial Applications Part II Marine Organisms Producing Enzymes* provides a huge treasure trove of information on marine organisms Nowadays marine organisms are good candidates for enzymes production and have been recognized as a rich source of biological molecules that are of potential interest to various industries Marine enzymes such as amylases carboxymethylcellulases proteases chitinases keratinases xylanases agarases lipases peroxidase and tyrosinases are widely used in the industry for the manufacture of pharmaceuticals foods beverages and confectioneries as well as in textile and leather processing and in waste water treatment The majority of the enzymes used in the industry are of microbial origin because microbial enzymes are relatively more stable than the corresponding enzymes derived from plants and animals Focuses on the isolation characterization and industrial application of marine enzymes Provides current trends and development of industrial important marine enzymes including amylases carboxymethylcellulases proteases chitinases keratinases xylanases agarases lipases peroxidase and tyrosinases Presents insights into current trends and approaches for marine enzymes **Marine Bioactive Compounds** Maria Hayes, 2011-11-19 The aim and scope of this book is to highlight the sources isolation characterization and applications of bioactive compounds from the marine environment and to discuss how marine bioactive compounds represent a major market application in food and other industries It discusses sustainable marine resources of macroalgal origin and gives examples of bioactive compounds isolated from these and other resources including marine by product and fisheries waste streams In addition it looks at the importance of correct taxonomic characterization *Maximising the Value of Marine By-Products* Fereidoon Shahidi, 2006-11-30 Despite declining stocks a major portion of the harvest of fish and marine invertebrates is discarded or used for the production of low value fish meal and fish oil Marine by products though contain

valuable protein and lipid fractions as well as vitamins minerals and other bioactive compounds which are beneficial to human health Devising strategies for the full utilization of the catch and processing of discards for production of novel products is therefore a matter of importance for both the fishing industry and food processors Maximising the value of marine by products provides a complete review of the characterisation recovery processing and applications of marine by products Part one summarises the physical and chemical properties of marine proteins and lipids and assesses methods for their extraction and recovery Part two examines the various applications of by products in the food industry including health promoting ingredients such as marine oils and calcium as well as enzymes antioxidants flavourings and pigments The final part of the book discusses the utilization of marine by products in diverse areas such as agriculture medicine and energy production With its distinguished editor and international team of authors Maximising the value of marine by products is an invaluable reference for all those involved in the valorisation of seafood by products Learn how to devise strategies for the full utilisation of the catch Understand the importance of marine by products to human health Explores the use of marine by products in diverse areas such as agriculture medicine and energy production

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

Marine Enzymes for Biocatalysis Antonio Trincone, 2013-09-30 Marine bioprospecting is a highly topical subject in both applied and basic research but as yet the marine ecosystem is a relatively unexplored source of natural bioactive substances with potential therapeutic activity This book addresses the use of marine enzymes in biocatalysis through a series of chapters from leading scientists within academic and industrial fields Biocatalytic processes can take advantage of the habitat related properties of marine enzymes such as salt tolerance hyperthermostability barophilicity cold adaptivity and so on whilst also taking into consideration substrate specificity and affinity These evolved properties are linked to the metabolic functions of the enzymes and to the ecological aspects of the natural source New properties can also

be discovered at the molecular level of catalysis particularly concerning the stereochemical characteristics of products

Marine enzymes for biocatalysis initially examines the nature and level of interest in marine biological diversity and outlines the fundamentals of biocatalysis It goes on to detail sources of marine enzymes and to analyse examples from both chemical and stereochemical viewpoints of catalysis including microbial enzymes and animal or plant sources The book goes on to explore the future potential of marine bioprospecting in biocatalysis Compiles studies from leading scientists in a direct and accessible format Includes practical descriptions of results adding further details not often covered in formal articles Takes a molecular view which fully explains the enzymatic aspects of reactions particularly regarding biocatalytic characteristics and descriptions of bioprocesses Selects examples of chemical and stereochemical aspects of enzymatic action with respect to known terrestrial counterparts

Marine Biochemistry Se-Kwon Kim, 2022-10-12 This book provides the latest comprehensive methods for isolation and other novel techniques for marine product development Furthermore this book offers knowledge on the biological medical and industrial applications of marine derived medicinal food substances There has been a tremendous increase in the products derived from marine organisms for commercial application in industries every year Functional foods of medicinal value are particularly in demand as new technology allows the stabilization of natural ingredients and their availability in pure forms to solve various human diseases Marine flora and fauna have essential elements and trace minerals that nurture various hormones produced in the endocrine system to regulate the respective metabolisms thereby providing a safe and healthy life to humans The overall presentation and clear demarcation of the contents by worldwide contributions is a novel entry point into the market of medicinal foods from the sea The exploration of marine habitats for novel materials are discussed throughout the book The exploration and exploitation of the biochemistry of sea flora and fauna are limited and this book extends the research possibilities into numerous marine habitats Various approaches for extracting and applying the flora and fauna are discussed This book will be of value to researchers marine biotechnologists and medical practitioners due to the vast information as well as industrial and medical applications of marine substances all in one place

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 *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

Annual Report National Sea Grant College Program (U.S.), 1989 **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

Tissue Engineering I Kyongbum Lee,David Kaplan,2006-10-16 This book covers trends in modern biotechnology All aspects of this interdisciplinary technology where knowledge methods and expertise are required from Chemistry Biochemistry Microbiology Genetics Chemical Engineering and Computer Science are treated More information as well as the electronic version available at springeronline.com

Life at Extremes Elanor Bell,2012 From arid deserts to icy poles outer space to the depths of the sea this exciting new work studies the remarkable life forms that have made these inhospitable environments their home Covering not only micro organisms but also higher plants and animals such as worms fish and polar plants this book details the ecological biological and biogeochemical challenges these organisms face and unifying themes between environments Equally useful for the expert student and casual scientific reader this book also explores the impact of climate change rapid seasonal changes and pollution on these extraordinary creatures

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70

Bioremediation of Petroleum and Petroleum Products James G. Speight,Karuna K. Arjoon,2012-11-07 With petroleum related spills explosions and health issues in the headlines almost every day the issue of remediation of petroleum and petroleum products is taking on increasing importance for the survival of our environment our planet and our future This book is the first of its kind to explore this difficult issue from an engineering and scientific point of view and offer solutions and reasonable courses of action This book will guide the reader through the various methods that are used for the bioremediation of petroleum and petroleum products The text is easy to read and includes many up to date and topical references This book introduces the reader to the science and technology of biodegradation a key process in the bioremediation of petroleum and petroleum based contaminants at spill sites The contaminants of concern in the molecularly variable petroleum and petroleum products can be degraded under appropriate conditions But the success of the process depends on the ability to determine the necessary conditions and establish them in the contaminated environment Although the prime focus of the book is to determine the mechanism extent and efficiency of biodegradation it is necessary to know the composition of the original petroleum or petroleum product The laws of science dictate what can or cannot be done with petroleum and petroleum products to ensure that biodegradation hence

bioremediation processes are effective The science of the composition of petroleum and petroleum products is at the core of understanding the chemistry of biodegradation and bioremediation processes Hence inclusion of petroleum analyses and properties along with petroleum product analyses and properties is a necessary part of this text Bioremediation of Petroleum and Petroleum Products Summarizes the pros and cons of remediation of petroleum and petroleum based products from an environmental perspective Gives examples of unethical behavior and how they should be corrected Offers arguments and elucidates engineering considerations on all sides of these difficult environmental and economic issues

Valorization of Food Processing By-Products M. Chandrasekaran, 2012-08-30 Biotechnology has immense potential for resolving environmental problems and augmenting food production Particularly it offers solutions for converting solid wastes into value added items In food processing industries that generate voluminous by products and wastes valorization can help offset growing environmental problems and facilitate the sustainable use of available natural resources

Valorization of Food Processing By Products describes the potential of this relatively new concept in the field of industrial residues management The debut book in CRC Press's new Fermented Foods and Beverages Series this volume explores the current state of the art in food processing by products with respect to their generation methods of disposal and problems faced in terms of waste and regulation It reviews the basic fundamental principles of waste recycling including process engineering economics and the microbiology and biochemical and nutritional aspects of food processing It discusses fermentation techniques available for valorization of food processing by products enzyme technologies and analytical techniques and instrumentation Individual chapters examine the by products of plant based and animal based food industries The book also delves into socioeconomic considerations and environmental concerns related to food processing by products It surveys research gaps and areas ripe for further inquiry as well as future trends in the field An essential reference for researchers and practitioners in the food science and food technology industry this volume is also poised to inspire those who wish to take on valorization of food by products as a professional endeavor A contribution toward sustainability valorization makes maximum use of agricultural produce while employing low energy and cost effective processes

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