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The present paper will review the recent progress in research on the structural chemistry and the bioactivities of these marine algal biomaterials. In particular, it will provide an update on the structural chemistry of the major sulfated polysaccharides synthesized by seaweeds including the galactans (e.g., agarans and carrageenans), ulvans, and fucons.

Marine Drugs | Special Issue : Marine Biomaterials

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Several marine biomaterials are currently being proposed for the sustained delivery of bioactive compounds, often triggered by external stimuli, which may be combined with polymeric matrices for cell culture, on the development of the so-called functional biopolymers.

Functional Marine Biomaterials | ScienceDirect

Marine biomaterials have been fabricated to nanofibrous matrices by many researchers, and explored for various tissue engineering applications such as bone, cartilage, and skin tissue regeneration. Alginate is one of the great candidates for preparing nanofibrous matrices for tissue engineering.

Strategies to Maximize the Potential of Marine ...

Marine biomaterials are a new emerging area of research with signicant applications. Recently, researchers have paid a considerable attention to marine-derived biomaterials for various applications. Due to vast diversity and biocompatibility marine-derived bioceramics, polysaccharides, enzymes, peptides, lipids, CONTENTS

- Introduction to Marine Biomaterials | Marine ...

Other valuable sources for lecture material on biocompatibility include "Biomaterials Science: An Introduction to Materials in Medicine" (9) and "Biomaterials: The Intersection of Biology and ...

Biomaterials Science, Second Edition: An Introduction to ...

Marine biotechnology is a relatively new field that involves the discovery and application of products and processes derived from marine organisms. Its promising future reflects the tremendous biodiversity of the world's oceans and seas that cover more than three-quarters of the earth's surface. Most major groups of living organisms primarily or exclusively are marine, and the demands of their environment have led these organisms to evolve unique structures, metabolic pathways, reproductive ...

Biomaterials from Marine Sources: BIO046B | BCC Research

Introduction to Marine Biomaterials. 16 April 2013. Protein growth factors loaded highly porous chitosan scaffold: A comparison of bone healing properties. Materials Science and Engineering: C, Vol. 33, No. 3. How can genipin assist gelatin/carbohydrate chitosan scaffolds to act as replacements of load-bearing soft tissues?

Potential Use of Chitosan as a Cell Scaffold Material for ...

Oceans are an abundant source of diverse biomaterials with potential for an array of uses. Marine Biomaterials: Characterization, Isolation and Applications brings together the wide range of research in this important area, including the latest developments and applications, from preliminary research to clinical trials. The book is divided into fou

Oceans are an abundant source of diverse biomaterials with potential for an array of uses. Marine Biomaterials: Characterization, Isolation and Applications brings together the wide range of research in this important area, including the latest developments and applications, from preliminary research to clinical trials. The book is divided into four parts, with chapters written by experts from around the world. Biomaterials described come from a variety of marine sources, such as fish, algae, microorganisms, crustaceans, and mollusks. Part I covers the isolation and characterization of marine biomaterials—bioceramics, biopolymers, fatty acids, toxins and pigments, nanoparticles, and adhesive materials. It also describes problems that may be encountered in the process as well as possible solutions. Part II looks at biological activities of marine biomaterials, including polysaccharides, biotoxins, and peptides. Chapters examine health benefits of the biomaterials, such as antiviral activity, antidiabetic properties, anticoagulant and anti-allergic effects, and more. Part III discusses biomedical applications of marine biomaterials, including nanocomposites, and describes applications of various materials in tissue engineering and drug delivery. Part IV explores commercialization of marine-derived biomaterials—marine polysaccharides and marine enzymes—and examines industry perspectives and applications. This book covers the key aspects of available marine biomaterials for biological and biomedical applications, and presents techniques that can be used for future isolation of novel materials from marine sources.

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...

The second edition of Chitin underscores the important factors for standardizing chitin processing and characterization. It captures the essential interplay between chitin's assets and limitations as a biomaterial, placing the past promises of chitin in perspective, addressing its present realities and offering insight into what is required to realize chitin's destiny (including its derivative, chitosan) as a biomaterial of the twenty-first century. This book is an ideal guide for both industrialists and researchers with a vested interest in commercializing chitin. An update on the research since 2001 as it pertains to the biomaterials and biomedical applications of chitin and chitosan An expanded discussion on positioning chitin and chitosan for biomedical applications Presents regulatory aspects of chitin and chitosan

Advanced Dental Biomaterials is an invaluable reference for researchers and clinicians within the biomedical industry and academia. The book can be used by both an experienced researcher/clinician learning about other biomaterials or applications that may be applicable to their current research or as a guide for a new entrant into the field who needs to gain an understanding of the primary challenges, opportunities, most relevant biomaterials, and key applications in dentistry. Provides a comprehensive review of the materials science, engineering principles and recent advances in dental biomaterials Reviews the fundamentals of dental biomaterials and examines advanced materials ' applications for tissues regeneration and clinical dentistry Written by an international collaborative team of materials scientists, biomedical engineers, oral biologists and dental clinicians in order to provide a balanced perspective on the field

The main focus of this book entitled is to provide an up-to-date coverage of marine sponges and their significance in the current era. This book is an attempt to compile an outline of marine sponge research to date, with specific detail on these bioactive compounds, and their pharmacological and biomedical applications. The book encompasses twenty chapters covering various topics related to Marine Sponges. Initial couple of chapters deal about the worldwide status of marine sponge research, the recent findings regarding dynamics of sponges, and several interesting research areas, that are believed to be deserving of increased attention. Variety of sponges, their toxicology, metagenomics, pharmaceutical significance and their possible applications in biomedicine has been discussed in detail. The second half of this part includes chapters on chemical ecology of marine sponges followed by the discussion on importance of bioeroding sponges in aquaculture systems. The following four chapters of the book deal majorly with the chemical molecules of marine sponges. In the fifth chapter, marine sponge-associated actinobacteria and their physicochemical properties have been discussed followed by their bioactive potential. The biological application of marine sponges has been presented in later chapters with the classification of biologically active compounds being explored in detail. The second half of the book presents the vast repertoire of secondary metabolites from marine sponges, which include terpenoids, heterocycles, acetylenic compounds, steroids and nucleosides. Further, the bioactive potential of these compounds has also been discussed. One of the constituent chapter elaborates the bioactive alkaloids from marine sponges namely, pyridoacridine, indole, isoquinolone, piperidine, quinolizidine, steroidal and bromotyrosine alkaloids isolated from them. In the next couple of chapters, important sponge polymers and the anticancer effects of marine sponge compounds have been presented. The most interesting aspect of sponge biology is their use in biomedical arena. An effort has been made in this book, to cover the major constituents of sponges and their biomedical potentials. The major portion of sponge body is composed of collagen and silica and used in tissue engineering as scaffold material. This part of the book compiles chapters delineating the isolation of sponge biomaterials including collagen and their use in medical diagnostics. Overall, this book would be an important read for novice and experts in the field of sponge biology.

Biomaterials for Skin Repair and Regeneration examines a range of materials and technologies used for regenerating or repairing skin. With a strong focus on biomaterials and scaffolds, the book also examines the testing and evaluation pathway for human clinical trials. Beginning by introducing the fundamentals on skin tissue, the book goes on to describe contemporary technology used in skin repair as well as currently available biomaterials suitable for skin tissue repair and regeneration. Skin tissue engineering and the ideal requirements to take into account when developing skin biomaterials are discussed, followed by information on the individual materials used for skin repair and regeneration. As evaluation of biomaterials in animal models is mandatory before proceeding into human clinical trials, the book also examines the different animal models available. With a strong focus on materials, engineering, and application, this book is a valuable resource for materials scientists, skin biologists, and bioengineers with an interest in tissue engineering, regeneration, and repair of skin. Provides an understanding of basic skin biology Comprehensively examines a variety of biomaterial approaches Looks at animal models for the evaluation of biomaterial-based skin constructs

A concise overview of tissue engineering technologies and materials towards specific applications, both past and potential growth areas in this unique discipline is provided to the reader. The specific area of the biomaterial component used within the paradigm of tissue engineering is examined in detail. This is the first work to specifically covers topics of interest with regards to the biomaterial component. The book is divided into 2 sections: (i) general materials technology (e.g., fibrous tissue scaffolds) and (ii) applications in the engineering of specific tissues (e.g., materials for cartilage tissue engineering). Each chapter covers the fundamentals and reflects not only a review of the literature, but also addresses the future of the topic. The book is intended for an audience of researchers in both industry and academia that are interested in a concise overview regarding the biomaterials component of tissue engineering, a topic that is timely and only growing as a field.

This book presents recent advances in the development of biomaterials for industrial applications, and discusses the potential for substituting environmentally hazardous substances with environmentally friendly and degradable components. Focusing on both the material development and production technologies, it reviews different materials, as well as new production technologies and application areas. It also highlights the importance of incorporating organic materials into different composites to enable consumption of otherwise waste materials. Further it addresses biopolymers for the food industry, e.g. edible films and coatings in food production and biodegradable materials; the automotive industry; bio fuels, such as biodiesel based on organic constituents; and green composites in marine applications. Environmental protection aspects related to the protection of cultural heritage, and new nanoparticles, such as nano zerovalent iron, are also reviewed. Aimed at young research ers, professionals, chemical engineers and marine engineers, the book is the result of the joint efforts of different academic and research institutions participating in the WIMB Tempus project, 543898-TEMPUS-1-2013-1-ES-TEMPUS-JPHES, " Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business ", co-funded by the European Union Tempus Program.

This book provides information about the sources, structure, and properties of keratin as well as its applications. The extraction from different biomass sources (e.g. feathers, hairs, nails, horn, hoof, and claws) as well as the characterization methods of these extracted materials are explained. The development of bioproducts from keratins is challenging and limited since they are neither soluble in polar solvents nor in non-polar solvents. Therefore, the utilization of different microorganisms for the degradation of keratin is also discussed. The main aim of this book is to highlight the unique features of keratin and to update readers with the possible prospects to develop various value-added products from keratins. The book is highly interesting to researchers working in industry and academia on bioproducts, tissue engineering, biocomposites, biofilm, and biofibers.

A comprehensive overview of the latest achievements, trends, and the current state of the art of this important and rapidly expanding field. Clearly and logically structured, the first part of the book explores the fundamentals of tissue engineering, providing a separate chapter on each of the basic topics, including biomaterials stem cells, biosensors and bioactuors. The second part then follows a more applied approach, discussing various applications of tissue engineering, such as the replacement or repairing of skins, cartilages, livers and blood vessels, to trachea, lungs and cardiac tissues, to musculoskeletal tissue engineering used for bones and ligaments as well as pancreas, kidney and neural tissue engineering for the brain. The book concludes with a look at future technological advances. An invaluable reading for entrants to the field in biomedical engineering as well as expert researchers and developers in industry.

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