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Biomaterials are used to replace diseased or damaged part of the body

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(artificial hip, joint, and kidney), assist healing (suture, bone screw, and bone plates), improve function (cardiac pacemaker...

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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

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polysaccharides synthesized by seaweeds including the galactans (e.g., agarans and carrageenans), ulvans, and fucans.

Marine Drugs | Special Issue : Marine Biomaterials

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Researchgate 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

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*marine biomaterials characterization
isolation and ...*

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

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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

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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

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Marine biomaterials are a new emerging area of research with significant applications. Recently, researchers have paid a considerable attention to marine-derived biomaterials for various applications. Due to vast diversity and

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Biocompatibility marine-derived
bioceramics, polysaccharides,
enzymes, peptides, lipids, CONTENTS

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Marine ...*

Other valuable sources for lecture
material on biocompatibility include

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"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

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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

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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*

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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

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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:

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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

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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

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Research 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,

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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

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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-

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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

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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

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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.

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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,

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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

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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

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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

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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

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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 -

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Bioenergy and biofuels - Marine
bioproducts in industrial applications -
Marine bioproducts in medical and
pharmaceutical applications - and
many more...

A concise overview of tissue
engineering technologies and

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Researchgate 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

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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

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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

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engineering, a topic that is timely and only growing as a field.

The second edition of Chitin underscores the important factors for standardizing chitin processing and characterization. It captures the essential interplay between chitin's

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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

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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

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Researchgate Presents regulatory
aspects of chitin and chitosan

This book presents an introduction to biomaterials with the focus on the current development and future direction of biomaterials and medical devices research and development in

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Indonesia. It is the first biomaterials book written by selected academic and clinical experts experts on biomaterials and medical devices from various institutions and industries in Indonesia. It serves as a reference source for researchers starting new projects, for companies developing and marketing

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ResearchGate products and for governments setting new policies. Chapter one covers the fundamentals of biomaterials, types of biomaterials, their structures and properties and the relationship between them. Chapter two discusses unconventional processing of biomaterials including nano-hybrid

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Organic-inorganic biomaterials.

Chapter three addresses biocompatibility issues including in vitro cytotoxicity, genotoxicity, in vitro cell models, biocompatibility data and its related failure. Chapter four describes degradable biomaterial for medical implants, which include

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biodegradable polymers,
biodegradable metals, degradation
assessment techniques and future
directions. Chapter five focuses on
animal models for biomaterial
research, ethics, care and use,
implantation study and monitoring and
studies on medical implants in animals

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in Indonesia. Chapter six covers biomimetic bioceramics, natural-based biocomposites and the latest research on natural-based biomaterials in Indonesia. Chapter seven describes recent advances in natural biomaterial from human and animal tissue, its processing and applications. Chapter

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eight discusses orthopedic applications of biomaterials focusing on most common problems in Indonesia, and surgical intervention and implants. Chapter nine describes biomaterials in dentistry and their development in Indonesia.

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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

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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

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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

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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

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skin biology
Comprehensively
examines a variety of biomaterial
approaches Looks at animal models
for the evaluation of biomaterial-based
skin constructs

The seafood processing industry
produces a large amount of by-

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products that usually consist of bioactive materials such as proteins, enzymes, fatty acids, and biopolymers. These by-products are often underutilized or wasted, even though they have been shown to have biotechnological, nutritional, pharmaceutical, and biomedical

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Researchgate. For example, by-products derived from crustaceans and algae have been successfully applied in place of collagen and gelatin in food, cosmetics, drug delivery, and tissue engineering. Divided into four parts and consisting of twenty-seven chapters, this book discusses seafood

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by-product development, isolation, and characterization, and demonstrates the importance of seafood by-products for the pharmaceutical, nutraceutical, and biomedical industries.

Provides comprehensive coverage of the research into and clinical uses of

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bioceramics and biocomposites

Developments related to bioceramics and biocomposites appear to be one of the most dynamic areas in the field of biomaterials, with multiple applications in tissue engineering and medical devices. This book covers the basic science and engineering of

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bioceramics and biocomposites for applications in dentistry and orthopedics, as well as the state-of-the-art aspects of biofabrication techniques, tissue engineering, remodeling, and regeneration of bone tissue. It also provides insight into the use of bionanomaterials to create new

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Functionalities when interfaced with biological molecules or structures. Featuring contributions from leading experts in the field, Bioceramics and Biocomposites: From Research to Use in Clinical Practice offers complete coverage of everything from extending the concept of hemopoietic and

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Researchgate, to the evolution of bioceramic-based scaffolds. It looks at perspectives on and trends in bioceramics in endodontics, and discusses the influence of newer biomaterials use on the structuring of the clinician's attitude in dental practice or in orthopedic surgery. The

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Researchgate book also covers such topics as biofabrication techniques for bioceramics and biocomposites; glass ceramics: calcium phosphate coatings; brain drug delivery bone substitutes; and much more. Presents the biggest trends in bioceramics and biocomposites relating to medical

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Devices and tissue engineering products Systematically presents new information about bioceramics and biocomposites, developing diagnostics and improving treatments and their influence on the clinicians' approaches Describes how to use these biomaterials to create new

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Functionalities when interfaced with biological molecules or structures
Offers a range of applications in clinical practice, including bone tissue engineering, remodeling, and regeneration
Delineates essential requirements for resorbable bioceramics
Discusses clinical results

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obtained in dental and orthopedic applications Bioceramics and Biocomposites: From Research to Use in Clinical Practice is an excellent resource for biomaterials scientists and engineers, bioengineers, materials scientists, and engineers. It will also benefit mechanical engineers and

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biochemists who work with
biomaterials scientists.

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

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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

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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

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Research 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

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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

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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

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bioactive potential of these compounds has also been discussed. One of the constituent chapter elaborates the bioactive alkaloids from marine sponges namely, pyridoacridine, indole, isoquinolene, piperidene, quinolizidine, steroidal and bromotyrosine alkaloids isolated from

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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

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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

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their use in medical diagnostics.

Overall, this book would be an important read for novice and experts in the field of sponge biology.

Additive manufacturing or 3D printing, manufacturing a product layer by layer, offers large design freedom and

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faster product development cycles, as well as low startup cost of production, on-demand production and local production. In principle, any product could be made by additive manufacturing. Even food and living organic cells can be printed. We can create, design and manufacture what

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we want at the location we want. 3D printing will create a revolution in manufacturing, a real paradigm change. 3D printing holds the promise to manufacture with less waste and energy. We can print metals, ceramics, sand, synthetic materials such as plastics, food or living cells.

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However, the production of plastics is nowadays based on fossil fuels. And that's where we witness a paradigm change too. The production of these synthetic materials can be based also on biomaterials with biomass as feedstock. A wealth of new and innovative products are emerging

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when we combine these two paradigm changes: 3D printing and biomaterials. Moreover, the combination of 3D printing with biomaterials holds the promise to realize a truly sustainable and circular economy.

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