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Packaging in medical and biomedical engineering is defined as a

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Biopolymers are well explored and used in pharmaceutical formulation development in recent years and also used for delivery of drugs from formulations.

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Biopolymers For Medical And Pharmaceutical Applications ...

Biopolymers are natural polymers produced by the cells of living organisms. Biopolymers consist of monomeric units that are covalently bonded to form larger molecules. There are three main classes of biopolymers, classified according to the monomers used and the structure of the biopolymer formed: polynucleotides, polypeptides, and polysaccharides. Polynucleotides, such as RNA and DNA, are long polymers composed of 13 or more nucleotide monomers. Polypeptides and proteins, are polymers of amino

This book presents an experimental and computational account of the applications of biopolymers in the field of medicine. Biopolymers are macromolecules produced by living systems, such as proteins, polypeptides, nucleic acids, and polysaccharides. Their advantages over polymers produced using synthetic chemistry include: diversity, abundance, relatively low cost, and sustainability. This book explains techniques for the production of different biodevices, such as scaffolds, hydrogels, functional nanoparticles, microcapsules, and nanocapsules. Furthermore, developments in nanodrug delivery, gene therapy, and tissue engineering are described.

Biopolymers remain a hot topic, with major medical and pharmaceutical industries turning to natural materials and their unique properties

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with regard to biodegradability and resorbability. This two-volume handbook compiles a selection of important substances successfully being used in medicine and pharmacy with articles taken directly from the Biopolymers series.

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Biopolymers including natural (e.g., polysaccharides, proteins, gums, natural rubbers, bacterial polymers), synthetic (e.g., aliphatic polyesters and polyphosphoester), and biocomposites are of paramount interest in regenerative medicine, due to their availability, processability, and low toxicity. Moreover, the structuration of biopolymer-based materials at the nano- and microscale along with their chemical properties are crucial in the engineering of advanced carriers for drug products. Finally, combination products including or based on biopolymers for controlled drug release offer a powerful solution to improve the tissue integration and biological response of these materials. Understanding the drug delivery mechanisms, efficiency, and toxicity of such systems may be useful for regenerative medicine and pharmaceutical technology.

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

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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.

Biopolymer-Based Nanomaterials in Drug Delivery and Biomedical Applications presents a clear and detailed body of information on biopolymer chemistry and polymer sciences in drug delivery. The book covers the recently reported nanomaterials consisting of biopolymers such as polysaccharides (i.e., plant, animal, bacteria, algae and fungi-derived) and proteins in terms of their structures, synthetic protocols and characterizations. In addition, their applications as therapeutic drug and gene delivery carriers and in other biomedical fields are reviewed. This book compiles chapters contributed by internationally renowned scholars working in biopolymer-based nanomaterials, offering a wide vision on the new and ongoing potential of different biopolymeric nanomaterials. The information related to concepts, design protocols and applications of biopolymer-based nanoplatfroms is presented here, with detailed chapters on Pectin based nanomaterials, Konjac glucomannan based nanomaterials, Guar gum-based nanomaterials, tailor-made gum Arabic based nanomaterials, among others. Such systems are widely being used as functional materials for drug delivery and other therapeutic applications. Provides a critical and detailed examination in the recent development of biopolymer-based nanomaterials Focuses on modified biopolymer-based, diverse cutting-edge techniques in drug delivery and biomedical applications Assesses the opportunities and challenges of biopolymer-based nano-carriers in pharmaceutical and biomedical fields

Biopolymers: Applications and Trends provides an up-to-date summary of the varying market applications of biopolymers characterized by biodegradability and sustainability. It includes tables with the commercial names and properties of each biopolymer family, along with biopolymers for each marketing segment, not only presenting all the major market players, but also highlighting trends and new developments in products. The book includes a thorough breakdown of the vast range of application areas, including medical and pharmaceutical, packaging, construction, automotive, and many more, giving engineers critical materials information in an area which has traditionally been more limited than conventional polymers. In addition, the book uses recent patent information to convey the latest applications and techniques in the area, thus further illustrating the rapid pace of development and need for intellectual property for companies working on new and innovative products. Provides an up-to-date summary of the varying market applications of biopolymers characterized by biodegradability and sustainability Includes tables with the commercial names and properties of each biopolymer family, along with biopolymers for each marketing segment Presents a thorough

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Biopolymers are endowed with excellent attributes such as biodegradability, biocompatibility and functional versatility, which render them an edge over other polymers. Today, they find broad applications in the biomedical field and pharmaceutical world. Nanotechnology has offered tremendous opportunities to design and tailor-make biopolymers augmenting their applications further. This book presents topical articles on the synthesis and applications of biopolymers, biopolymer nanoparticles and nanocomposites. The book includes chapters on conducting polymers, vegetable oils, chitosan and cellulose based polyurethanes, polymeric hydrogels, biopolymeric nanoparticles and nanocomposites, and their applications as drug carriers and sensors in cancer therapy and others. This book would be useful for students, scholars, and scientists interested in the synthesis, biomedical and pharmaceutical applications of biopolymers and their nanocomposites.

Biopolymer-Based Formulations: Biomedical and Food Applications presents the latest advances in the synthesis and characterization of advanced biopolymeric formulations and their state-of-the-art applications across biomedicine and food science. Sections cover the fundamentals, applications, future trends, environmental, ethical and medical considerations, and biopolymeric architectures that are organized in nano, micro and macro scales. The final section of the book focuses on novel applications and recent developments. This book is an essential resource for researchers, scientists and advanced students in biopolymer science, polymer science, polymer chemistry, polymer composites, plastics engineering, biomaterials, materials science, biomedical engineering, and more. It will also be of interest to R&D professionals, scientists and engineers across the plastics, food, biomedical and pharmaceutical industries. Provides in-depth coverage of methods for the characterization of the physical properties of biopolymeric architectures Supports a range of novel applications, including scaffolds, implant coatings, drug delivery, and nutraceutical encapsulation systems Includes the use of experimental data and mathematical modeling, thus enabling the reader to analyze and compare the properties of different polymeric gels

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