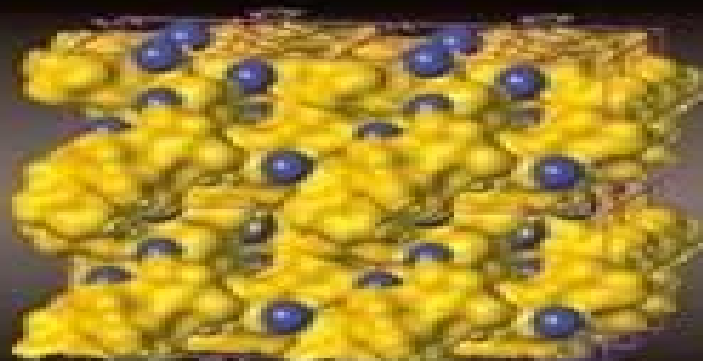


POLYSACCHARIDES

STRUCTURAL DIVERSITY
AND FUNCTIONAL VERSATILITY

SECOND EDITION



EDITED BY
SEVERIAN DUMITRIU

Polysaccharides Structural Diversity And Functional Versatility

Rosina Ehmman



Polysaccharides Structural Diversity And Functional Versatility:

Polysaccharides Severian Dumitriu, 1998-05-12 Offers comprehensive coverage of the structural characterization of polysaccharides emphasizing commercially available and potential exopolysaccharides as well as new applications Presents the major chemical and physical properties of polysaccharides and derivatives

Polysaccharides Severian Dumitriu, 2004-11-30 Completely revised and expanded to reflect the latest advancements in the field *Polysaccharides Structural Diversity and Functional Versatility* Second Edition outlines fundamental concepts in the structure function chemistry and stability of polysaccharides and reveals new analytical techniques and applications currently impacting the cosmetic medicinal chemical and biochemical industries The authoritative book discusses polysaccharides utilized in medical applications such as polysaccharide based hydrogels polysialic acids proteoglycans glycolipids and anticoagulant polysaccharides renewable resources for the production of various industrial chemicals and engineering plastics polysaccharides and more

Functional Polysaccharides for Biomedical Applications Sabyasachi Maiti, Sougata Jana, 2019-06-11 *Functional Polysaccharides for Biomedical Applications* examines the fundamentals and properties of these natural materials and their potential biomedical applications With an emphasis on therapeutic and sensing applications the book also reviews how polysaccharides can be modified for tissue engineering applications Sections discuss the basics of polysaccharides give an overview of the potential applications look at novel materials and technologies for use in tissue regeneration and therapeutics and detail current biomedical applications With a strong focus on materials engineering and applications this book is a valuable resource for those with an interest in harnessing the biomedical potential of natural polymers Describes strategies for developing polysaccharides based biomedical devices Illustrates concepts and encompasses scope for clinical development Provides advanced and comprehensive information on biomedical constructs

Esterification of Polysaccharides Thomas Heinze, Tim Liebert, Andreas Koschella, 2006-08-02 This book provides a first comprehensive summary of acylation methods in a very practical manner The coverage includes new developments not yet summarized in book form and reviews spectroscopic methods in particular FTIR and NMR spectroscopy including two dimensional methods

Polysaccharides Nouredine Benkeblia, 2014-06-25 This book reviews the evidence supporting the influence of plant fibers on our daily life by either having impacts on our nutrition or improving processed foods for human and animal feeding By bringing new information and updating existing scientific data this book will also be a consistent source of information for both professional and non prof

An Introduction to Polysaccharide Biotechnology Stephen E. Harding, Michael P. Tombs, Gary G. Adams, Berit Smestad Paulsen, Kari Tvete Inngjerdigen, Hilde Barsett, 2017-03-16 *Polysaccharides and related high molecular weight glycans* are hugely diverse with wide application in Biotechnology and great opportunities for further exploitation *An Introduction to Polysaccharide Biotechnology* a second edition of the popular original text by Tombs and Harding introduces students researchers clinicians and industrialists to the properties of some of

the key materials involved how these are applied some of the economic factors concerning their production and how they are characterized for regulatory purposes

Innovative Pharmaceutical Excipients: Natural Sources Jailani. S, Kuldeep Vinchurkar, Meghraj Suryawanshi, Sheetal Mane, 2025-07-28 This book offers an in depth exploration of the latest advancements in pharmaceutical excipients by addressing the growing need for sustainable and biocompatible options The book will covers a wide range of topics including the extraction and characterization of natural polymers plant derived excipients marine polymers polysaccharides proteins peptides lipids gums and mucilages It emphasizes their applications in solid dosage forms controlled release systems and oral drug delivery Additionally the volume discusses bioavailability enhancement and regulatory aspects making it a vital resource for understanding the potential and challenges of natural excipients in pharmaceuticals The next edition Innovative Pharmaceutical Excipients Biomaterials and Innovations is also planned and in progress The main topics covered in this book are crucial for advancing drug delivery technologies enhancing therapeutic efficacy and ensuring patient safety By integrating natural and biomaterial based excipients the book addresses the industry s need for more effective biocompatible and sustainable solutions Researchers and professionals will find valuable information on how to overcome the limitations of synthetic excipients improve drug bioavailability and develop innovative drug delivery systems Targeted at pharmaceutical scientists formulators researchers and regulatory professionals this book is an essential resource for anyone involved in drug development and delivery It aims to equip readers with the knowledge and tools needed to leverage natural and biomaterial based excipients for cutting edge pharmaceutical applications

Technology and Applications of Polymers Derived from Biomass Syed Ali Ashter, 2017-11-22 Technology and Applications of Polymers Derived from Biomass explores the range of different possible routes from biomass to polymeric materials including the value and limitations of using biomass in material applications and a comparison of petrochemical derived polymers and bio based polymers The book discusses biomass sources types chemistry and handling concerns It covers the manufacture of industrial chemicals from biomass and the derivation of monomers and polymers from biomass It also details the processing and applications of biomass derived polymers to enable materials scientists and engineers realize the potential of biomass as a sustainable source of polymers including plastics and elastomers The book is a one stop shop reference giving students a basic understanding of the technology and how the material can be applied to industrial processes they will face in the workforce and giving materials engineers and product designers the information they need to make more informed material selection decisions Provides fundamental understanding of an increasingly important approach to sourcing polymeric materials Includes actionable relevant information to enable materials engineers and product designers consider biomass derived polymers in the products they are developing Discusses the environmental impact of biomass conversion to help readers improve the sustainability of their operations Compares petrochemical derived polymers with bio based polymers

Functional Foods and Dietary Supplements Athapol Noomhorm, Imran Ahmad, Anil Kumar

Anal,2014-03-11 Functional foods are foods which contain bioactive components either from plant or animal sources which can have health benefits for the consumer over and above their nutritional value Foods which have antioxidant or cancer combating components are in high demand from health conscious consumers much has been made of the health giving qualities of fruits and vegetables in particular Conversely foods which have been processed are suffering an image crisis with many consumers indiscriminately assuming that any kind of processing robs food of its natural goodness To date there has been little examination of the actual effects whether positive or negative of various types of food processing upon functional foods This book highlights the effects of food processing on the active ingredients of a wide range of functional food materials with a particular focus on foods of Asian origin Asian foods particularly herbs are becoming increasingly accepted and demanded globally with many Western consumers starting to recognize and seek out their health giving properties This book focuses on the extraction of ingredients which from materials which in the West are seen as alternative such as flour from soybeans instead of wheat or bran and starch from rice but which have long histories in Asian cultures It also highlight the incorporation of those bioactive compounds in foods and the enhancement of their bioavailability Functional Foods and Dietary Supplements Processing Effects and Health Benefits will be required reading for those working in companies research institutions and universities that are active in the areas of food processing and agri food environment Food scientists and engineers will value the new data and research findings contained in the book while environmentalists food regulatory agencies and other food industry personnel involved in functional food production or development will find it a very useful source of information

Nanotechnology in Agriculture and Food Science Monique A. V. Axelos,Marcel Van de Voorde,2017-03-07 A comprehensive overview of the current state of this highly relevant topic An interdisciplinary team of researchers reports on the opportunities and challenges of nanotechnology in the agriculture and food sector highlighting the scientific technical regulatory safety and societal impacts They also discuss the perspectives for the future and provide insights into ways of assuring safety so as to obtain confidence for the consumer as well as an overview of the innovations and applications Essential reading for materials and agricultural scientists food chemists and technologists as well as toxicologists and ecotoxicologists

Biomass for Bioenergy and Biomaterials Nidhi Adlakha,Rakesh Bhatnagar,Syed Shams Yazdani,2021-10-21 Biomass for Bioenergy and Biomaterials presents an overview of recent studies developed specifically for lignocellulose based production of biofuels biochemicals and functional materials The emphasis is on using sustainable chemistry and engineering to develop innovative materials and fuels for practical applications Technological strategies for the physical processing or biological conversion of biomass for material production are also presented FEATURES Offers a comprehensive view of biomass processing biofuel production life cycle assessment techno economic analysis and biochemical and biomaterial production Presents details of innovative strategies to pretreat biomass Helps readers understand the underlying metabolic pathways and identify the best engineering strategies for their native strain

Highlights different strategies to make biomaterials from biomass Provides insight into the potential economic viability of the biomass based process This book serves as an ideal reference for academic researchers and engineers working with renewable natural materials the biorefining of lignocellulose and biofuels It can also be used as a comprehensive reference source for university students in metabolic chemical and environmental engineering *Polysaccharide Hydrogels* Pietro Matricardi, Franco Alhaique, Tommasina Coviello, 2016-01-05 Hydrogels are an emerging area of interest in medicine as well as pharmaceuticals and their physico chemical characterization is fundamental to their practical applications Compared with synthetic polymers polysaccharides that are widely present in living organisms and come from renewable sources are extremely advantageous for hydrogel formation **Edible Food Packaging** Miquel Angelo Parente Ribeiro Cerqueira, Ricardo Nuno Correia Pereira, Oscar Leandro da Silva Ramos, Jose Antonio Couto Teixeira, Antonio Augusto Vicente, 2017-12-19 The edible food packaging industry has experienced remarkable growth in recent years and will continue to impact the food market for quite some time going into the future *Edible Food Packaging Materials and Processing Technologies* provides a broad and comprehensive review on recent aspects related to edible packaging from processing to potential applications and covering the use of nanotechnology in edible packaging The book's 14 chapters promote a comprehensive review on such subjects as materials used their structure function relationship and new processing technologies for application and production of edible coatings and films Specific topics include edible film and packaging using gum polysaccharides protein based films and coatings and edible coatings and films from lipids waxes and resins The book also reviews stability and application concerns mass transfer measurement and modeling for designing protective edible films and edible packaging as a vehicle for functional compounds The authors explore antimicrobial edible packaging nanotechnology in edible packaging and nanostructured multilayers for food packaging by electrohydrodynamic processing Additionally they show how to evaluate the needs for edible packaging of respiring products and provide an overview of edible packaging for fruits vegetables and dairy products Lastly they examine edible coatings and films for meat poultry and fish *Sustainable Food Systems (Volume II)* Monika Thakur, 2023-11-28 Sustainable Food System has cutting edge green circular Technologies food Safety diversity that aims to provide quality and safe foods in an environmentally conscious and sustainable way The book addresses both the theoretical and applied aspects of sustainable food diverse food systems This concept of Sustainable Food System under SDG Goals is such a vast concept that it has been impossible to highlight all the concepts in one volume Therefore the Editor have compiled this voluminous comprehensive and compendious approach as balanced and organized structure of work as Sustainable Food System Volume I II A Sustainable Food System SFS is a comprehensive food system and Volume II targets the Novel Sustainable Green Food Processing Technologies Circular Strategies for Recovery Valorization and the overall sustainable techniques for Food Safety Food Diversity The book has a very comprehensive outline divided in 3 major sections and further 20 different chapters All chapters in different sections

will be written by key scientists with diverse backgrounds in either industry R D academia and will provide an update on emerging ideas and sustainable technologies as well as vision for the future The Section 5 Novel Sustainable Green Food Processing Technologies primarily focusing on the novel green different food processing technologies in different food categories The Section 6 Circular Strategies for Recovery Valorization deals with different circular strategies for valorization of the food products The Section 7 Sustainable Techniques for Food Safety Food Diversity will cover the food safety trends and food diversities nationally internationally

Plant Polysaccharides as Pharmaceutical Excipients Amit Kumar Nayak,Md Saquib Hasnain,Dilipkumar Pal,2022-11-20 Plant Polysaccharides as Pharmaceutical Excipients explores innovative techniques and applications of plant derived polysaccharides as pharmaceutical excipients Plant polysaccharides are sustainable renewable and abundantly available offering attractive properties in terms of water solubility swelling ability non toxicity and biodegradability These qualities have resulted in extensive exploration into their applications as excipients in a variety of pharmaceutical dosage forms This book takes a comprehensive application oriented approach drawing on the very latest research that includes sources classification and extraction methods of plant polysaccharides Subsequent chapters focus on plant polysaccharides for individual pharmaceutical applications enabling the reader to understand their preparation for specific targeted uses Throughout the book information is supported by illustrations chemical structures flow charts and data tables providing a clear understanding Finally future perspectives and challenges are reviewed and discussed Explains sources classifications extraction methods and biocompatibility of plant polysaccharides Guides the reader through properties and preparation methods of plant polysaccharides as pharmaceutical excipients Covers a broad range of cutting edge applications with each chapter targeting a specific use

Medical Textiles and Biomaterials for Healthcare Subhash C. Anand,J F Kennedy,M Mirafat,S. Rajendran,2006 This reference text is a culmination of worldwide research on medical textiles and biomaterials for healthcare combined with the most innovative papers from the 2003 MEDTEX conference held at the U of Bolton UK Fifty eight contributions are organized into eight sections each introduced with an overview covering the main areas of basic biomaterials healthcare and hygiene products infection control and barrier materials bandaging and pressure garments woundcare materials implantable devices and intelligent textiles for medical applications A sampling of topics reformed collagen fibers application of nonwovens in healthcare and hygiene sector durable and rechargeable biocidal textiles assessment of fabrics worn on the upper limbs woundcare dressings from chitin new prophylaxis method of children s teeth caries nerve implants and delivering cell therapy for chronic wounds Published by Woodhead Publishing Ltd UK in association with the Textile Institute co published in the U S by CRC Annotation 2006 Book News Inc Portland OR booknews.com

Biopolymers for Food Design Alexandru Mihai Grumezescu,Alina Maria Holban,2018-04-03 Biopolymers for Food Design Volume 20 in the Handbook of Bioengineering series describes how biopolymers have made a major impact in the food industry from food design to food control and safety Biopolymers can be

used in the development of novel nutritional alternatives to replace difficult to obtain food products or for foods inaccessible or inappropriate for a particular population i.e. allergic to specific components. In addition, some polymers can be used as functional ingredients and can also represent efficient scaffolds for food ingredients with therapeutic values. This valuable reference is ideal for those looking for new solutions for the food industry. Presents common biopolymers and their applications in food bioengineering from food design to control and safety. Identifies how the use of certain biopolymers can result in faster production time and reduced costs. Includes cutting edge technologies used in research for food design and other food related applications. Discusses the use of biopolymers in food packaging, shelf life extension and the creation of novel food products.

Monomers, Polymers and Composites from Renewable Resources

Mohamed Naceur Belgacem, Alessandro Gandini, 2011-10-10. The progressive dwindling of fossil resources coupled with the drastic increase in oil prices have sparked a feverish activity in search of alternatives based on renewable resources for the production of energy. Given the predominance of petroleum and carbon based chemistry for the manufacture of organic chemical commodities, a similar preoccupation has recently generated numerous initiatives aimed at replacing these fossil sources with renewable counterparts. In particular, major efforts are being conducted in the field of polymer science and technology to prepare macromolecular materials based on renewable resources. The concept of the bio refinery viz. the rational exploitation of the vegetable biomass in terms of the separation of its components and their utilisation as such or after suitable chemical modifications is thus gaining momentum and considerable financial backing from both the public and private sectors. This collection of chapters, each one written by internationally recognised experts in the corresponding field, covers in a comprehensive fashion all the major aspects related to the synthesis, characterization and properties of macromolecular materials prepared using renewable resources as such or after appropriate modifications. Thus, monomers such as terpenes and furans, oligomers like rosin and tannins, and polymers ranging from cellulose to proteins and including macromolecules synthesized by microbes are discussed with the purpose of showing the extraordinary variety of materials that can be prepared from their intelligent exploitation. Particular emphasis has been placed on recent advances and imminent perspectives given the incessantly growing interest that this area is experiencing in both the scientific and technological realms. Discusses bio refining with explicit application to materials. Replete with examples of applications of the concept of sustainable development. Presents an impressive variety of novel macromolecular materials.

Bioactive Compounds of Edible Fruits and Berries

Leo M.L. Nollet, Javed Ahamad, 2025-11-17. Plants have often been a primary source of therapeutic compounds. This book delves deep into the remarkable world of edible fruits and berries, revealing their untapped potential in human health and pharmaceutical development. This comprehensive book examines the diverse array of bioactive compounds from polyphenols and flavonoids to anthocyanins and phytosterols, while providing detailed analysis of extraction, identification and quantification methods. It explores the therapeutic applications and health promoting properties of fruit.

and berry compounds presenting cutting edge research on phytopharmaceutical development Whether you re a pharmaceutical researcher food scientist or health care professional this essential resource bridges the gap between traditional knowledge and modern analytical techniques Featuring state of the art methodologies and future research directions Bioactive Compounds of Edible Fruits and Berries Health Benefits Nutritional Importance and Analysis is an indispensable guide for anyone working at the intersection of nutrition pharmacology and natural products chemistry

Microbial Production of Food Ingredients, Enzymes and Nutraceuticals Brian McNeil,David Archer,Ioannis Giavasis,Linda Harvey,2013-03-21 Bacteria yeast fungi and microalgae can act as producers or catalysts for the production of food ingredients enzymes and nutraceuticals With the current trend towards the use of natural ingredients in foods there is renewed interest in microbial flavours and colours food bioprocessing using enzymes and food biopreservation using bacteriocins Microbial production of substances such as organic acids and hydrocolloids also remains an important and fast changing area of research Microbial production of food ingredients enzymes and nutraceuticals provides a comprehensive overview of microbial production of food ingredients enzymes and nutraceuticals Part one reviews developments in the metabolic engineering of industrial microorganisms and advances in fermentation technology in the production of fungi yeasts enzymes and nutraceuticals Part two discusses the production and application in food processing of substances such as carotenoids flavonoids and terpenoids enzymes probiotics and prebiotics bacteriocins microbial polysaccharides polyols and polyunsaturated fatty acids Microbial production of food ingredients enzymes and nutraceuticals is an invaluable guide for professionals in the fermentation industry as well as researchers and practitioners in the areas of biotechnology microbiology chemical engineering and food processing Provides a comprehensive overview of microbial flavours and colours food bioprocessing using enzymes and food biopreservation using bacteriocins Begins with a review of key areas of systems biology and metabolic engineering including methods and developments for filamentous fungi Analyses the use of microorganisms for the production of natural molecules for use in foods including microbial production of food flavours and carotenoids

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