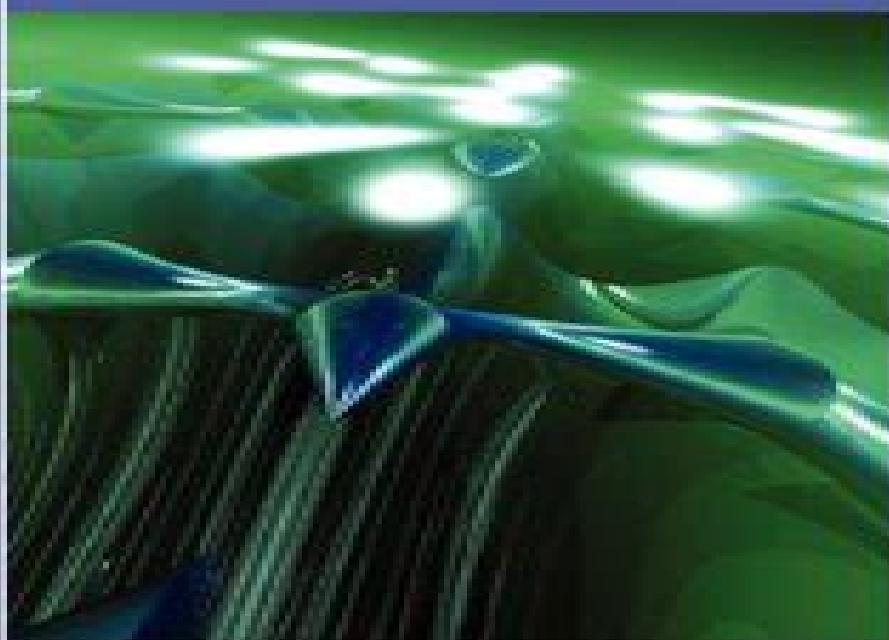


# **Polysaccharides in Medicinal and Pharmaceutical Applications**



Edited By Valentin Popa



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# Polysaccharides In Medicinal Applications

**Laura Poole-Warren, Penny  
Martens, Rylie Green**

## **Polysaccharides In Medicinal Applications:**

**Polysaccharides in Medicinal Applications** Severian Dumitriu,2017-10-19 Integrates the latest advances in polysaccharide chemistry and structure analysis with the practical applications of polysaccharides in medicine and pharmacy highlighting the role of glycoconjugates in basic biological processes and immunology It also presents recent developments in glycobiology and glycopathology The work covers bacterial fungal and cell wall polysaccharides microbial and bacterial exopolysaccharides industrial gums the biosynthesis of bacterial polysaccharides and the production of microbial polysaccharides

**Polysaccharides in Medicinal Applications** Severian Dumitriu,1996-06-14 Integrates the latest advances in polysaccharide chemistry and structure analysis with the practical applications of polysaccharides in medicine and pharmacy highlighting the role of glycoconjugates in basic biological processes and immunology It also presents recent developments in glycobiology and glycopathology The work covers bacterial fungal and cell wall polysaccharides microbial and bacterial exopolysaccharides industrial gums the biosynthesis of bacterial polysaccharides and the production of microbial polysaccharides

**Polysaccharides in Medicinal and Pharmaceutical Applications** Valentin Popa,2011-06-30 Polysaccharides in Medicinal and Pharmaceutical Applications presents new and specific aspects in the field of polysaccharides and their derivatives recommended for use in medicine and pharmacy At the same time the aspects developed in this book will be useful to designing new systems for drugs delivery immunomodulation and new materials based on polysaccharides isolated from different sources and their derivatives

**Biopolymers for Medical Applications** Juan M. Ruso,Paula V. Messina,2017-02-17 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

**Pharmaceutical Applications of Polymers for Drug Delivery** David S. Jones,David Jones,2004 Annotation The review focuses on the use of pharmaceutical polymer for controlled drug delivery applications Examples of pharmaceutical polymers and the principles of controlled drug delivery are outlined and applications of polymers for controlled drug delivery are described The field of controlled drug delivery is vast therefore this review aims to provide an overview of the applications of pharmaceutical polymers The review is accompanied by approximately 250 abstracts taken from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

**Food, Medical, and Environmental Applications of Polysaccharides** Kunal Pal,Indranil Banerjee,Preetam Sarkar,Arindam Bit,Doman Kim,Arfat Anis,Samarendra Maji,2020-12-03 Food Medical and Environmental Applications of Polysaccharides provides a detailed resource for those interested in the design and

preparation of polysaccharides for state of the art applications The book begins with an introductory section covering sources chemistry architectures bioactivity and chemical modifications of polysaccharides Subsequent parts of the book are organized by field with chapters focusing on specific applications across food medicine and the environment This is an extremely valuable book for researchers scientists and advanced students in biopolymers polymer science polymer chemistry biomaterials materials science biotechnology biomedical engineering cosmetics medicine food science and environmental science This important class of biopolymer can offer attractive properties and modification potential enabling its use in groundbreaking areas across food medical and environmental fields The book will be of interest to scientists R D professionals designers and engineers who utilize polysaccharide based materials Presents comprehensive information of the polymeric structures and properties that can be developed from polysaccharides Offers systematic coverage of classification synthesis and characterization enabling targeted design and preparation of polysaccharides for specific applications Explores advanced methods for novel applications across food medicine and the environment

**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

**Biosynthetic Polymers for Medical Applications** Laura Poole-Warren,Penny Martens,Rylie Green,2015-11-23

Biosynthetic Polymers for Medical Applications provides the latest information on biopolymers the polymers that have been produced from living organisms and are biodegradable in nature These advanced materials are becoming increasingly important for medical applications due to their favorable properties such as degradability and biocompatibility This important book provides readers with a thorough review of the fundamentals of biosynthetic polymers and their applications Part One covers the fundamentals of biosynthetic polymers for medical applications while Part Two explores biosynthetic polymer coatings and surface modification Subsequent sections discuss

biosynthetic polymers for tissue engineering applications and how to conduct polymers for medical applications Comprehensively covers all major medical applications of biosynthetic polymers Provides an overview of non degradable and biodegradable biosynthetic polymers and their medical uses Presents a specific focus on coatings and surface modifications biosynthetic hydrogels particulate systems for gene and drug delivery and conjugated conducting polymers

**Polysaccharides II** Dieter Klemm,2006-10-18 This book has the Highest Impact Factor of all publications ranked by ISI within Polymer Science It contains short and concise reports on physics and chemistry of polymers each written by the world renowned experts The book is still valid and useful after 5 or 10 years The electronic version is available free of charge for standing order customers at springer com series 12

### **Bioprospecting of Multi-tasking Fungi for Therapeutic**

**Applications** Kiran Babu Uppuluri,Rangabhashiyam Selvasembian,2025-03-30 This book covers the multi tasking nature of fungi for therapeutic applications It emphasizes the simultaneous metabolic activities and functions of fungi for producing enzyme inhibitors therapeutic molecules and other biomedical utilities like polymers nano composites and biosensors The fungi are involved in the production of many therapeutically potent secondary metabolites and polymers The recent research on fungal bioprospecting is more focused on sustainable solutions for diverse industries and markets for the circular economy This book also offers current and future research perspectives of fungal bioprospecting The potential of fungi to act as a bioresource for antimicrobial antiviral anticancer antiprotozoal and antituberculosis compounds has also been discussed This book is a reference material for undergraduate students for gaining in depth knowledge on fungal bioprospecting particularly fungi s multi tasking nature

### **Medical Application of Polymer-Based Composites** Haw-Ming Huang,2021-04-21

Polymer based compounds play an important role in modern medical applications Among them high molecular weight polymers modified by biomolecules can increase biological activity and improve their biocompatibility The composite material formed by the biopolymers combined with other materials can improve the mechanical strength These materials that can complement polymers include micron sub micron and nano scale materials Their application covers the entire field of biomedicine

**The European Polysaccharide Network of Excellence (EPNOE)** Patrick Navard,2012-12-13 This book provides an essential overview of the science of polysaccharides It both approaches polysaccharides as a polymer class and provides detailed descriptions of most major polysaccharides cellulose mannan xylan chitin chitosan cyclodextrines Owing to the multidisciplinary character of the European Polysaccharide Network of Excellence EPNOE the book describes all main aspects of polysaccharide science and technology biology enzymology physics chemistry materials science and processing Notations and concepts follow a uniform format throughout the whole work in order to create a valuable reference book on the field of polysaccharide science Owing to the major importance of industry in the EPNOE concrete applications are also described in detail

**Bioactive Functionalisation of Silicones with Polysaccharides** Matej Bračič,Simona Strnad,Lidija Fras Zemljic,2018-10-10 This book covers the functionalisation of silicone surfaces with polysaccharides to improve their

antimicrobial and antifouling properties thus reducing the implant related infections The authors describe how silicone surfaces were chosen because silicone exhibits excellent biocompatible properties and is already being used for medical implants such as catheters breast implants prosthetics etc The potential of polysaccharides such as cellulose chitosan hyaluronic acid and other natural substances such as natural surfactants as coatings for silicones are also discussed their effects are evaluated With the aging of the population the number of medical implants is growing and with it the number of infections associated with the use of implants

*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

*Microbial Glycobiology* Anthony P Moran,2009-10-01 This book presents in an easy to read format a summary of the important central aspects of microbial glycobiology i e the study of carbohydrates as related to the biology of microorganisms Microbial glycobiology represents a multidisciplinary and emerging area with implications for a range of basic and applied research fields as well as having industrial medical and biotechnological implications Individual chapters provided by leading international scientists in the field yield insightful concise and stimulating reviews Provides researchers with an overview and synthesis of the latest research Each chapter begins with a brief 200 word Summary Abstract detailing the topic and focus of the chapter as well as the concepts to be addressed Allows researchers to see at a glance what each chapter will cover Each chapter includes a Research Focus Box Identifies important problems that still need to be solved and areas that require further investigation

*Reviews in Ethnopharmacology: 2023* Irina Ielciu,Rajeev K. Singla,Hanganu Daniela,Michel Frederich,2025-04-15 Frontiers in Pharmacology is delighted to present the Reviews in Ethnopharmacology 2023 series of article collections Reviews in Ethnopharmacology will publish high quality scholarly review papers on key topics in Ethnopharmacology It aims to highlight recent advances in the field whilst emphasizing important directions and new possibilities for future inquiries We anticipate the research presented will promote discussion in the Ethnopharmacology community that will translate to best practice applications in clinical public health and policy settings The Reviews in Ethnopharmacology 2023 collection welcomes full length mini or systematic review papers New articles will be added to this collection as they are published This collection welcomes manuscripts that focus on the following themes 1 Translational

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Front Pharmacol 13 953205     **Marine Nutraceuticals and Functional Foods** Colin Barrow,Fereidoon

Shahidi,2007-08-13 Two of the most popular nutraceutical products on the market omega 3 oil and glucosamine were originally derived from waste products Discarded oil from the manufacture of fishmeal became wildly popular as omega 3 a polyunsaturated fat and the fully hydrolyzed chitosan from shrimp and crab shell glucosamine found wide use in joint health

Hun     **Medical Application of Liposomes** K. Yagi,1986-08     Polysaccharides Inamuddin,Mohd Imran Ahamed,Rajender Boddula,Tariq Altalhi,2021-06-29 In diesem Werk werden Polysaccharide unter s mtlichen Aspekten betrachtet von den Grundkonzepten bis zur kommerziellen Vermarktung Thema der einzelnen Kapitel sind die verschiedenen Arten von Quellen die Klassifikation Eigenschaften Charakterisierung Verarbeitung Rheologie und Herstellung von Materialien auf Grundlage von Polysacchariden sowie von Polysaccharid Gemischen und Gelen Anwendung finden Polysaccharide u a in der Kosmetik der Lebensmittelwissenschaft der Medikamentenverabreichung der Biomedizin der Biokraftstoffproduktion der Schifffahrt im Verpackungswesen in der Chromatographie und der Umweltsanierung Dar ber hinaus vermittelt das Werk einen berblick ber die Herstellung von anorganischen und Kohlenstoff Nanomaterialien aus Polysacchariden Mit der Betrachtung industrieller Anwendungen schlie t das Buch die L cke zwischen der Forschungsarbeit im Labor und wirtschaftlich nutzbaren Anwendungen in entsprechenden Unternehmen

### **Handbook of Polymers for Pharmaceutical Technologies,**

**Biodegradable Polymers** Vijay Kumar Thakur,Manju Kumari Thakur,2015-09-23 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 partset of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies

The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic Hybrid Polymers

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