



Extracellular Microbial Polysaccharides

S.C. Moldoveanu



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Wingender, 1999-10-20 Microbial extracellular polymeric substances EPS are the key components for the aggregation of microorganisms in biofilms flocs and sludge They are composed of polysaccharides proteins nucleic acids lipids and other biological macromolecules EPS provide a highly hydrated gel matrix in which microbial cells can establish stable synergistic consortia Cohesion and adhesion as well as morphology structure biological function and other properties such as mechanical stability diffusion sorption and optical properties of microbial aggregates are determined by the EPS matrix Also the protection of biofilm organisms against biocides is attributed to the EPS Their matrix allows phase separation in biofiltration and is also important for the degradation of particulate material which is of great importance for the self purification processes in surface waters and for waste water treatment In this volume analysis characterization composition regulation function and interactions of microbial EPS are covered Food Polysaccharides and Their Applications Alistair

M. Stephen, Glyn O. Phillips, 2016-04-19 Comprehensive in scope Food Polysaccharides and Their Applications Second Edition explains the production aspects and the chemical and physical properties of the main classes of polysaccharides consumed as food highlighting their nutritional value and their technological characteristics Chapters in this new edition detail the source **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 Extracellular Microbial Polysaccharides P.A. Sandford, A. Laskin, American Chemical Society, Division of Carbohydrate Chemistry, American Chemical Society. Division of Microbial and Biochemical Technology, 1977 *Microbial Polysaccharides and Polysaccharases* Society for General Microbiology, 1979 **Marine Polysaccharides** Vazhiyil

Venugopal, 2016-04-19 Increased public awareness of the importance of healthy living presents new challenges for the commercial food processing sector The industry is always on the hunt for novel and safe additives with functional properties that can be used to impart healthy and appealing properties to foods While the ocean is known as a conventional source of fish p 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

Microbial Bioprocessing of Agri-food Wastes Gustavo Molina, Minaxi Sharma, Rachid Benhida, Vijai Kumar Gupta, Ramesh Chander Kuhad, 2023-04-28 Microbes are widely used in large scale industrial processes due to their versatility easy growing cultivation kinetic potential and the ability to generate metabolites with a wide range of potential applications to various commercial sectors such as the food pharmaceutical and cosmetic industries in addition to the potential for agriculture biomedical and several others Among the metabolites of greatest commercial interest and many obtained on an industrial scale the wide range of enzymes biofuels organic acids amino acids vitamins biopolymers and many other classes of metabolites This book is intended for Bioengineers Biologist Biochemist Biotechnologists microbiologist food technologist enzymologist and related Professionals researchers Explores recent advances in the valorization of agri food waste Provides technical concepts on the production of various bio products of commercial interest Discusses the main process conditions to overcome the difficulties of using waste as alternative raw materials Introduces technical economic details on the advantages and disadvantages of exploring the waste recovery chain Explores the main technological advances in the recovery of residues in functional products

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

Food Hydrocolloids Martin Glucksman, 2022-07-30 First Published in 1982 this three volume set explores the value of hydrocolloids in food Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for dieticians and other practitioners in their respective fields

Microbial Exopolysaccharides Shashi Kant Bhatia, Parmjit Singh Panesar, Sanjeet Mehariya, 2024-03-11 This book offers a complete coverage of microbial refinery for exopolysaccharides EPS production including genetic improvements production techniques biotechnological applications in food cosmetics health and environment sector economic perspectives and

commercialization of EPS products It focuses on exopolysaccharides production from an organism perspective to offer a complete picture from isolation of microbes to commercialization of EPS based products It covers strategies for EPS production and future perspectives and the potential of microbial refinery Features Provides a concise introduction to the science biology technology and application of exopolysaccharides EPS Details upstream and downstream steps in EPS production from microbial resources Acts as a complete guide from production to commercialization Explores the potential application of EPS for socioeconomical benefits Discusses the EPS applications in food cosmetics health and bioremediation approach for clean and sustainable development This book is aimed at researchers and graduate students in fermentation technology biochemical engineering and biotechnology **Marine Polysaccharides Volume 1** Paola Laurienzo, 2018-04-24 This book is a printed edition of the Special Issue Marine Polysaccharides that was published in Marine Drugs

Extracellular Microbial Polysaccharides a Symposium Co-sponsored by the Division of Carbohydrate Chemistry and the Division Of-31 Paul A. Sandford, 1977 **Food Hydrocolloids** Martin Glicksman, 2020-03-27 First Published in 1982 this three volume set explores the value of hydrocolloids in food Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for dieticians and other practitioners in their respective fields **Extracellular Microbial Polysaccharides** A. Jeanes, 1972* **ARS-NC.** , 1976 **Analytical Pyrolysis of Natural Organic Polymers** S.C. Moldoveanu, 1998-11-11 Analytical pyrolysis is one of the many tools utilized for the study of natural organic polymers This books describes in three parts the methodology of analytical pyrolysis the results of pyrolysis for a variety of biopolymers and several practical applications of analytical pyrolysis on natural organic polymers and their composite materials Analytical pyrolysis methodology covers two distinct subjects the instrumentation used for pyrolysis and the analytical methods that are applied for the analysis of the pyrolysis products A variety of pyrolytic techniques and of analytical instruments commonly coupled with pyrolysis devices are given The description of the results of pyrolysis for biopolymers and some chemically modified natural organic polymers is the core of the book The main pyrolysis products of numerous compounds as well as the proposed mechanisms for their pyrolysis are described In this part an attempt is made to present as much as possible the chemistry of the pyrolytic process of natural organic polymers The applications of analytical pyrolysis include topics such as polymer detection used for example in forensic science structure elucidation of specific polymers and identification of small molecules present in polymers anti oxidants plasticizers etc Also the degradation during heating is a subject of major interest in many practical applications regarding the physical properties of polymers The applications to composite polymeric materials are in the fields of classification of microorganisms study of a variety of biological samples study of fossil materials etc Analytical pyrolysis can also be used for obtaining information on the burning area generate pyrolysates that have complex compositions Their analysis is important in connection with health issues environmental problems and taste of food and cigarettes Features of this book Presents analytical pyrolysis as a

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