



Microbial Polyesters

**Birgit Kamm, Patrick R. Gruber, Michael
Kamm**

Microbial Polyesters:

Microbial Polyesters Yoshiharu Doi,1990 *Microbial Polyesters* Yoshiharu Doi,1990 This is the first book to present a topical overview of the research and development of microbial polyesters Comprehensive and amply illustrated it covers the biosynthesis structure properties applications of these biodegradable and biocompatible thermoplastics The book provides the reader with the necessary background to understand the nature and mechanism of biological polymerization It unites aspects from both the biological and polymer sciences and is a typical modern example of the analysis of biological macromolecules

Renewable Resources for Functional Polymers and Biomaterials Peter A Williams,2015-11-09 This book details polysaccharides and other important biomacromolecules covering their source production structures properties and current and potential application in the fields of biotechnology and medicine It includes a systematic discussion on the general strategies of isolation separation and characterization of polysaccharides and proteins Subsequent chapters are devoted to polysaccharides obtained from various sources including botanical algal animal and microbial In the area of botanical polysaccharides separate chapters are devoted to the sources structure properties and medical applications of cellulose and its derivatives starch and its derivatives pectins and exudate gums notably gum arabic Another chapter discusses the potential of hemicelluloses xylans and xylan derivatives as a new source of functional biopolymers for biomedical and industrial applications The algal polysaccharide alginate has significant application in food pharmaceuticals and the medical field all of which are reviewed in a separate chapter Polysaccharides of animal origin are included with separate chapters on the sources production biocompatibility biodegradability and biomedical applications of chitin chitosan and hyaluronan With the increasing knowledge and applications of genetic engineering there is also an introduction in the book to nucleic acid polymers the genome research and genetic engineering Proteins and protein conjugates are covered with one chapter providing a general review of structural glycoproteins fibronectin and laminin together with their role in the promotion of cell adhesion in vascular grafts implants and tissue engineering Another chapter discusses general aspects of a number of industrial proteins including casein caseinates whey protein gluten and soy proteins with emphasis on their medical applications and with reference to the potential of bacterial proteins Another natural polymer resource microbial polyesters although small compared with polysaccharides and proteins is also gaining increasing interest in biomedical technology and other industrial sectors One chapter therefore is devoted to microbial polyesters with comprehensive coverage of their biosynthesis properties enzymic degradation and applications By dealing with biopolymers at the molecular level the book is aimed at the biomedical and wider materials science communities and provides an advanced overview of biopolymers at the graduate and postgraduate level In addition it will appeal to both academic and industrial life scientists who are involved in research and development activities in the medical and biotechnology field

[Handbook of Polymer Degradation](#) S. Halim Hamid,2000-06-30 Covers recent advances in polymer degradation and stabilization Focuses on the

basics of photo and bio degradability Delineates special and general environmental parameters such as solar irradiation temperature and agrochemical exposure Surveys plastic waste disposal strategies such as recycling incineration chemical recovery by pyrolysis and source reduction

Handbook of Composites from Renewable Materials, Biodegradable Materials Vijay Kumar Thakur, Manju Kumari Thakur, Michael R. Kessler, 2017-02-28 This unique multidisciplinary 8 volume set focuses on the emerging issues concerning synthesis characterization design manufacturing and various other aspects of composite materials from renewable materials and provides a shared platform for both researcher and industry The Handbook of Composites from Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis structure characterization processing applications and performance of these advanced materials The Handbook comprises 169 chapters from world renowned experts covering a multitude of natural polymers reinforcement fillers and biodegradable materials Volume 5 is solely focused on Biodegradable Materials Some of the important topics include but not limited to Rice husk and its composites biodegradable composites based on thermoplastic starch and talc nanoparticles recent progress in biocomposites of biodegradable polymer microbial polyesters production and market biodegradable and bioabsorbable materials for osteosynthesis applications biodegradable polymers in tissue engineering composites based on hydroxyapatite and biodegradable polylactide biodegradable composites development of membranes from biobased materials and their applications green biodegradable composites based on natural fibers fully biodegradable all cellulose composites natural fiber composites with bioderivative and or degradable polymers synthetic biodegradable polymers for bone tissue engineering polysaccharides as green biodegradable platforms for building up electroactive composite materials biodegradable polymer blends and composites from seaweeds biocomposites scaffolds derived from renewable resources for bone tissue repair pectin based composites recent advances in conductive composites based on biodegradable polymers for regenerative medicine applications biosynthesis of PHAs and their biomedical applications biodegradable soy protein isolate poly vinyl alcohol packaging films and biodegradability of biobased polymeric materials in natural environment

Biopolymers, Polyesters III - Applications and Commercial Products A. Steinbüchel, 2001 Volumes 3a b and 4 focus on polyesters synthesized by bacteria and eukaryotic organisms as well as all aspects of the biosynthesis and metabolism of these biopolymers together with their production and isolation In addition these volumes treat various synthetic polyesters and related polymers synthesized by the chemical industry for the manufacture of biodegradable materials Topics include polyhydroxyalkanoates pha granules non storage phas poly malic acid cutin suberin polyphosphate polylactides polyglycolide polyanhydrides polyesteramides aliphatic organic polyesters and related polymers in vitro synthesis of polyesters chemical synthesis biotechnological production by fermentation isolation from plants production in transgenic plants biodegradation

Applied and Environmental Microbiology, 1998 **Biopolymers, Polyesters II - Properties and Chemical**

Synthesis A. Steinbüchel, Yoshiharu Doi, 2001 Volumes 3a b and 4 focus on polyesters synthesized by bacteria and eukaryotic organisms as well as all aspects of the biosynthesis and metabolism of these biopolymers together with their production and isolation In addition these volumes treat various synthetic polyesters and related polymers synthesized by the chemical industry for the manufacture of biodegradable materials Topics include polyhydroxyalkanoates pha granules non storage phas poly malic acid cutin suberin polyphosphate polylactides polyglycolide polyanhydrides polyesteramides aliphatic organic polyesters and related polymers in vitro synthesis of polyesters chemical synthesis biotechnological production by fermentation isolation from plants production in transgenic plants biodegradation **Microbial Polyesters for the 21st Century** Michele Benjamin Kellerhals, 1999 Biopolymers ,1993 **Biopolymers** A. Steinbüchel, 2001 Biopolymers Online provides a comprehensive overview of the occurrence metabolism and applications of all important biopolymer classes This reference work treats processes for biotechnological production isolation from organisms and modification material properties and technical uses in areas such as chemical and food industries medicine pharmacy and materials science

Recycling of Polymers Jaroslav Kahovec, 1998 Since polymers contribute a large volume to the waste streams they have become a particular source of concern with regard to environmental protection This volume is devoted to the recycling of polymers either by reusing them directly or by recovering their chemical or energy content *Abstracts of the Annual Meeting of the American Society for Microbiology* American Society for Microbiology, 1992 *Indian Plastics Industry* ,2003 Contributed articles **Engineering of Biological Systems for the Production of Polyhydroxyalkanoate Copolymers and the Biofabrication of Polymeric Microstructures** Soazig Claude Delamarre, 2004 **Biodegradable Polymers and Plastics** Michel Vert, 1992 This interdisciplinary book presents the latest international research in the field and includes mathematical modelling for biodegradable applications **Environment-friendly "green" Biodegradable Composites Using Ramie Fibers and Soy Protein Concentrate (SPC) Polymer** Sunghyun Nam, 2002 **Biorefineries - Industrial Processes and Products** Birgit Kamm, Patrick R. Gruber, Michael Kamm, 2006 Publisher Description Polymer Preprints, Japan ,1997 **SPSJ ... Annual Meeting** Kōbunshi Gakkai (Japan), Kōbunshi Gakkai (Japan)., 1995

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