

Biotechnology of microbial exopolysaccharides

Ian W. Sutherland



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Jessica J Manson



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Biotechnology of Microbial Exopolysaccharides Ian W. Sutherland, 1990-10-18 This volume provides a thorough account of the structure and synthesis of microbial exopolysaccharides and of their widespread application across a broad range of industries including food oil and medicine The successful exploitation of these polysaccharides requires a sound scientific understanding of their chemical and physical properties and also their biochemistry and biosynthesis

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

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

Microbial Exopolysaccharides as Novel and Significant Biomaterials Ashok Kumar Nadda, Sajna K. V., Swati Sharma, 2021-07-08 This book examines the commercial role of various microbial polysaccharides and recent advances in their production Offering an overview of the physiological role biosynthetic pathways and regulatory mechanisms it also explores the current challenges regarding bioprocessing for the production of polysaccharides

Microbial Exopolysaccharides: From Genes to Applications Jochen Schmid, Julia Fariña, Bernd Rehm, Volker Sieber, 2016-06-24 Microbial polysaccharides represent an attractive alternative to those from plants or macro algae They can be produced from renewable sources including lignocellulosic waste streams Their production does not depend on geographical constraints and or seasonal limitations Additionally the manipulation of biosynthetic pathways to enhance productivity or to influence the chemical polysaccharide composition is comparatively easy in bacteria Microbial exopolysaccharides represents a valuable resource of biogenic and biodegradable polymers suitable to replace petro based polymers in various technical applications Furthermore biocompatible exopolysaccharides are very attractive in medical applications such as drug delivery systems use as vaccines or nanoparticles This research topic will depict the status quo as

well as the future needs in the field of EPS and biofilm research Starting from the unexplored diversity of microbial polysaccharide producers to production processes and possibilities for modifications to enhance the already high number of functionalities based on the chemical structures An overview of the recent and future applications will be given and the necessity in unravelling the biosynthesis of microbial exopolysaccharide producers is depicted highlighting the future trend of tailor made polymers Constraints in structure analysis of these highly complex biogenic polymers are described and different approaches to solve the restrictions in imaging and NMR analysis will be given Therefore this research topic comprises the whole process from genes to applications

Industrial Biotechnology Devarajan Thangadurai, Jeyabalan Sangeetha, 2017-03-03 This important new book covers recent advancements innovations and technologies in industrial biotechnology specifically addressing the application of various biomolecules in industrial production and in cleaning and environmental remediation sectors The goal of industrial biotechnology is to develop new techniques and technologies to transform renewable raw materials into chemicals materials and fuels by the substitution of fossil fuels With the increase in the world's population and the resultant growing energy demand the need for more energy can be successfully met with the advancements in industrial biotechnology Currently across the globe significant research has been undertaken in the production of cleaner fuels materials and semi synthetic chemicals with environmental benefits Developing countries have huge agricultural resources that could be utilized for production of value added byproducts for the sustainable development of bio based economy The book opens with the chapter on the production of exopolysaccharides from halophilic microorganisms a polymer that is normally very useful in various production sectors of the food pharmaceutical and petroleum industries The book goes on to cover The production of antimicrobial compounds from alkaliphilic bacteria Thermophilic actinomycetes Food agro and pharmaceutical potential and biotechnological applications of biosurfactants halophiles cyclodextrin glycosyl transferase fungal chitinase proteases yeasts and yeast products Also covered in the book are the environmental aspects of industrial biotechnology such as the genetic enhancement for biofuel production the production of biodegradable thermoplastics advancements in the synthesis of bio oil ecofriendly treatment of agro based lignocelluloses and anaerobic bio reactors for hydrocarbon remediation The international roster of chapter authors have been chosen for their renowned expertise and contribution to the various fields of industrial biotechnology This book is suitable to chemists biotechnologists from research institutes academia and students as well as for industry professionals

Microbial Extracellular Polymeric Substances Jost Wingender, Thomas R. Neu, Hans-Curt Flemming, 2012-12-06 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

Biotechnology for Sustainable Environment Sanket J. Joshi,Arvind Deshmukh,Hemen Sarma,2021-06-30 This book brings together the most recent advances from leading experts in the burgeoning field of environmental biotechnology The contributing chapters adopt a multidisciplinary approach related to environmental aspects of agriculture industry pharmaceutical sciences and drug developments from plant and microbial sources biochemical chemical techniques methods protocols involved in different areas of environmental biotechnology Book also highlights recent advancements newly emerging technologies and thought provoking approaches from different parts of the world It also discusses potential future prospects associated with some frontier development of biotechnological research related to the environment This book will be of interest to teachers researchers biotechnologists capacity builders and policymakers and will serve as additional reading material for undergraduate and graduate students of biotechnology microbiology and environmental sciences

Biotechnology of Extremophiles: Pabulo H Rampelotto,2016-04-27 Aimed at research scientists and biotechnologists this book is an essential reading for those working with extremophiles and their potential biotechnological application Here we provide a comprehensive and reliable source of information on the recent advances and challenges in different aspects of the theme Written in an accessible language the book is also a recommended as reference text for anyone interested in this thriving field of research Over the last decades the study of extremophiles has provided ground breaking discoveries that challenge our understanding of biochemistry and molecular biology In the applied side extremophiles and their enzymes have spawned a multibillion dollar biotechnology industry with applications spanning biomedical pharmaceutical industrial environmental and agricultural sectors Taq DNA polymerase which was isolated from *Thermus aquaticus* from a geothermal spring in Yellowstone National Park is the most well known example of the potential biotechnological application of extremophiles and their biomolecules Indeed the application of extremophiles and their biologically active compounds has opened a new era in biotechnology However despite the latest advances we are just in the beginning of exploring the biotechnological potentials of extremophiles

Biotechnology Handbook NIIR Board,2003-08-09 Biotechnology is a field of applied biology that involves the use of living organisms and bioprocesses in engineering technology medicine and other fields requiring bio products Biotechnology also utilizes these products for manufacturing purpose Modern use of similar terms includes genetic engineering as well as cell and tissue culture technologies Biotechnology draws on the pure biological sciences and in many instances is also dependent on knowledge and methods from outside the sphere of biology Conversely modern biological sciences are intimately entwined and dependent on the methods developed through biotechnology and what is commonly thought of as the life sciences industry It has a major

application in modern brewing technology which includes the production of whisky traditional fermented soybean foods bacterial biomass cheese starters cheese technology L glutamic acid fermentation etc Biotechnology and cell molecular biology have developed and emerged in to a major discipline during last two decades Biotechnology is also used to recycle treat waste microbial treatment and utilization a waste The growing global demand for biotechnology products India has rich biodiversity that drives its clinical trials industry and forms a strong base for pharmaceutical research In recent years the worldwide biotechnology based products market has grown at an annual average rate of 15% This book majorly deals with introduction to basic biotechnology downstream processing in biotechnology modern brewing technology industrial chemicals biochemical and fuels microbial flavours and fragrances biodegradation of non cellulosic wastes for environmental conservation and fuel production landfills for treatment of solid wastes etc This book also consists of addresses of machinery suppliers addresses of chemical suppliers list of universities conducting Biotechnology courses in the directory section This is a unique book concise up to date resource offering an innovative adoptive and valuable presentation of the subject It covers all important biotechnological topics of industrial and academic interests This book will be very use full for industry people students and libraries and for those who want to venture in to manufacturing of biotechnological products TAGS Opportunities in Industrial Biotechnology Whisky Soybean Foods Cheese Lyine Tryptophan Aspartic Acid Citric Acid Acetic Acid Gluconic and Itaconic Acids Lactic Acid Glucose Isomerase Ethanol Acetone and Butanol Enzymes Antibiotics Biogas Best small and cottage scale industries Biogas and waste treatment Biogas and waste treatment Biogas production Biotechnological potential of brewing industry by products Biotechnology India in business Biotechnology applications in beverage production Biotechnology based profitable Biotechnology based small scale industries projects Biotechnology books Biotechnology business ideas Biotechnology business opportunities Biotechnology business plan Biotechnology business Biotechnology downstream processing Biotechnology entrepreneurship Biotechnology for biotechnology for beginners Biotechnology for fuels and chemicals Biotechnology for production of chemicals Biotechnology for production of fuels Biotechnology ideas for projects Biotechnology ideas future Biotechnology industry in India Biotechnology processing projects Biotechnology small business manufacturing Biotechnology startups in India Brewing and biotechnology Business consultancy Business consultant Business guidance to clients Business guidance for bio technology Business plan for a startup business Business related to biotechnology Business start up Downstream processing in biotech industry Downstream processing in bio technology Downstream processing in the biotechnology industry Downstream processing of biotechnology products How is biotechnology used in beer How is biotechnology used in wine How to start a biotechnology industry How to start a biotechnology production business How to start a small scale biotech industry in India How to start a successful biotechnology business How to start biotechnology business How to start biotechnology industry in India Ideas for biotech startups Industrial biotechnology in renewable chemicals Industrial biotechnology tools and applications Industrial

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