



Biosurfactants Biosurfactants

**Catherine N. Mulligan, Sanjay K.
Sharma, Ackmez Mudhoo**



Biosurfactants Biosurfactants:

Applications of Next Generation Biosurfactants in the Food Sector Inamuddin, Charles Oluwaseun Adetunji, 2022-10-13 Applications of Next Generation Biosurfactants in the Food Sector provides detailed information on the sustainable approach to the utilization of biosurfactants as a next generational green biotechnology to mitigate various problems encountered in the food industry These biosurfactants help to reduce risks such as food spoilage food poisoning and post harvest losses of fruits vegetable grains tubers cereals and pulses This book will benefit academics R D professionals and postgrad students in the food science and related fields as they explore recent trends in the application of these green biosurfactants and the many uses they can provide Provides examples of mathematical modeling metabolomics bioinformatics metabolic engineering systems biology and computer technology for solving real life food challenges using biosurfactants Presents biosurfactants as an innovative green biotechnological solution to resolving food safety issues and improving human health Includes applications of biosurfactants for the prevention of mycotoxins and as a biodegradable material with a wide variety of uses **Biosurfactants** Catherine N. Mulligan, Sanjay K. Sharma, Ackmez

Mudhoo, 2014-02-10 Microbially derived surfactants called biosurfactants provide a promising alternative to synthetic surfactants displaying better availability and being generally nontoxic and biodegradable Biosurfactants also have the advantage of diverse chemical properties and the potential to be less expensive They demonstrate properties such as reducing su **Biosurfactants** Naim Kosaric, Fazilet Vardar Sukan, 2014-11-03 Stresses the Potential Applications of Biosurfactants in Various Industries Environmental concerns and a demand for sustainable chemical production have become important issues in recent years As a result microbial biosurfactant producing systems are gaining momentum as potential replacements for chemical surfactants Biosurfactants Production and Utilization Processes Technologies and Economics explores the production utilization and industrial economic use of biosurfactants in modern biotechnology This book represents comprehensive material developed by contemporary experts in the field Focusing on research and developments within the last 20 years it highlights relevant changes in the industry It provides a detailed account of the current applications of biosurfactants considers the potential for further environmental biological and industrial applications and concentrates on surfactants and organisms with possibilities for future use Emphasizes Process Scale Up and Commercialization Factoring in the industrial application of biosurfactant production based on renewable resources the book determines how biosurfactants can enhance or replace the properties of chemically synthesized surface active agents It discusses moving beyond the laboratory scale of research and development and on to the industrial scale of commercial interest The book consists of 17 chapters and features expert authors discussing topics that include Understanding the regulatory processes controlling the production of biosurfactants Strategies for feasible commercial biosurfactant production Examples of cost analysis based on published information The viability of industrial applications in food cosmetics and

pharmaceuticals Patents for future trends Biosurfactants Production and Utilization Processes Technologies and Economics contains special sections devoted to the overview and evaluation of specific patents relating to biosurfactants and methods for production of biosurfactants on a laboratory and industrial commercial scale It also presents novel and proven applications for biosurfactants from a number of biotechnology laboratories and research facilities around the world In addition it introduces the reader to a variety of real world industry techniques readily applicable for practical use

Biosurfactants Naim Kosaric,Fazilet Vardar Sukan,2010-03-17 Providing comprehensive discussions of the physical and chemical properties manufacture and industrial uses of biosurfactants this reference offers first hand accounts of biosurfactant research of leading biotechnology laboratories It introduces promising possible uses of biosurfactants in medicine in environmental control and for marine **Biosurfactants** Catherine N. Mulligan,Sanjay K. Sharma,Ackmez

Mudhoo,2014-02-10 Microbially derived surfactants called biosurfactants provide a promising alternative to synthetic surfactants displaying better availability and being generally nontoxic and biodegradable Biosurfactants also have the advantage of diverse chemical properties and the potential to be less expensive They demonstrate properties such as reducing surface tension stabilizing emulsions and promoting foaming With many promising research results a consolidated resource of biosurfactant knowledge is needed to build a framework for further development of applications Biosurfactants Research Trends and Applications fills this need covering the latest research and development on relevant aspects of biological biochemical and physical processes and applications of biosurfactants This book reviews current knowledge and the latest advances strategies for improving production processes and the status of biosynthetic and genetic regulation mechanisms for microbial surfactants Chapters present research findings on specific biosurfactants such as high surface activity rhamnolipids yeast derived sophorolipids lipopeptides and trehalose lipids that have potential for environmental industrial and medical uses The book also describes sources and characteristics of marine microbial biosurfactants biosurfactants made from food processing by products and biosurfactants used in the food industry and biosurfactants for green synthesis of nanoparticles The text presents applications of biosurfactants in environmental industries and examines interactions between metals and various classes of biosurfactants and related metal remediation technologies The final chapter reviews the state of the art of biosurfactants and their applications and proposes approaches to overcome any challenges *Biosurfactants and Sustainability* Paulo Ricardo Franco Marcelino,Silvio Silverio da Silva,Antonio Ortiz

Lopez,2023-05-09 Biosurfactants and Sustainability A timely and authoritative collection of resources on the sustainable production of biosurfactants In Biosurfactants and Sustainability a team of distinguished researchers presents emerging themes in the rapidly evolving field of biosurfactants The editors have chosen work that focuses on biosurfactants as eco friendly and versatile compounds of interest in societies seeking sustainable forms of development The book examines biosurfactants in the context of biorefineries and in the exploration of extremophilic microorganisms for biosurfactant

production The included works discuss biosurfactant production from different lignocellulosic and amylaceous raw materials as well as oilseeds and other agro industrial byproducts Readers will also find A thorough introduction to microorganisms producing biosurfactants as well as sustainable biosurfactant production in biorefineries Comprehensive explorations of the challenges of biosurfactant production in fermentation processes Practical discussions of bioreactors and metabolic engineering used in biosurfactant production Fulsome treatments of biosurfactant production using enzyme and novel biosurfactant applications in nanotechnology health agriculture and environmental cleanup Perfect for researchers and professionals with an interest in biosurfactant application and biotechnology processes Biosurfactants and Sustainability will also benefit academic researchers industry scientists and engineers in biotechnology microbiology biomass conversion environmental science and engineering

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Biosurfactants Ramkrishna Sen,2010-12-31 The microbial world has given us many surprises including microbes that grow under extremely harsh conditions 122C at 40 MPa novel metabolisms such as the uranium and perchlorate reduction

and novel chemicals that can be used to control diseases We continually face new and difficult problems such as the need to transition to more carbon neutral energy sources and to find eco friendly chemicals and to find new drugs to treat disease Will it be possible to tap into the seemingly limitless potential of microbial activity to solve our current and future problems The answer to this question is probably yes We are already looking to the microbial world to provide new energy sources green chemicals to replace those made from petroleum and new drugs to fight disease To help us along these paths we are deciphering how microorganisms interact with each other We know that microbial populations interact and communicate with each other The language that microbes use is chemical where small molecules are exchanged among different microbial cells Sometimes these chemicals suppress activities of competitors and could be used as antibiotics or may have other therapeutic uses Other times the chemicals stimulate complex responses in microbial populations such as fruiting body or biofilm formation By understanding the conversation that microbes are having among themselves e g

Biosurfactants for a Sustainable Future Hemen Sarma, Majeti Narasimha Vara Prasad, 2021-04-16 Biosurfactants for a Sustainable Future Explore the state of the art in biosurfactant technology and its applications in environmental remediation biomedicine and biotechnology Biosurfactants for a Sustainable Future explores recent developments in biosurfactants and their use in a variety of cutting edge applications The book opens a window on the rapid development of microbiology by explaining how microbes and their products are used in advanced medical technology and in the sustainable remediation of emerging environmental contaminants The book emphasizes the different techniques that are used for the production of biosurfactants from microorganisms and their characterization Various aspects of biosurfactants including structural characteristics developments production bio economics and their sustainable use in the environment and biomedicine are addressed and the book also presents metagenomic strategies to facilitate the discovery of novel biosurfactants producing microorganisms Readers will benefit from the inclusion of A thorough introduction to the state of the art in biosurfactant technology techniques and applications An exploration of biosurfactant enhanced remediation of sediments contaminated with organics and inorganics A discussion of perspectives for biomedical and biotechnological applications of biosurfactants A review of the antiviral antimicrobial and antibiofilm potential of biosurfactants against multi drug resistant pathogens An examination of biosurfactant inspired control of methicillin resistant *Staphylococcus aureus* Perfect for academic researchers and scientists working in the petrochemical industry pharmaceutical industry and in the agroindustry Biosurfactants for a Sustainable Future will also earn a place in the libraries of scientists working in environmental biotechnology environmental science and biomedical engineering

Microbial Biosurfactants and their Environmental and Industrial Applications Ibrahim M. Banat, Rengathavasi Thavasi, 2019-01-15 Microbial biosurfactants are green molecules with high application potential in environmental and industrial sectors Chemical diversity of biosurfactants allows them versatility and broad range surfactants capability without compromising performance or economic viability Biosurfactants are used as emulsifiers dispersants

wetting agents oil recovery agents biopesticides stabilizers solubilizers and bioremediation agents pesticide heavy metals and oil spill cleanup This comprehensive book on biosurfactants and their environmental and industrial applications offers a broad spectrum of information on potential applications of biosurfactants in various fields and related technological developments

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