

SPRINGER BRIEFS IN MICROBIOLOGY

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Biosurfactants of Lactic Acid Bacteria

Biosurfactants Of Lactic Acid Bacteria Springerbriefs In Microbiology

**Didier Montet, Ramesh C. Ray, Vasco
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Paramithiotis**

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Biosurfactants of Lactic Acid Bacteria Deepansh Sharma, Baljeet Singh Saharan, Shailly Kapil, 2016-02-24 This book provides an introduction to biosurfactants produced by lactic acid bacteria presenting a detailed compilation of their functional properties and structural composition Microbial surfactants extensively known as surface active agents have created a niche for themselves in the green chemicals market thanks to their distinct environment friendly properties The demand for biosurfactants in the cosmetics food pharmaceuticals agricultural and environmental industries is steadily growing and biosurfactants from lactic acid bacteria possess significant biological properties making them potentially suitable for antimicrobial anti adhesive and various other industrially important applications Exploring these aspects in depth the book offers a valuable resource for both postgraduate students and researchers in the fields of food and industrial microbiology Lactic Acid Bacteria as Cell Factories Didier Montet, Ramesh C. Ray, Vasco Ariston De Carvalho

Azevedo, Spiros Paramithiotis, 2023-05-03 Lactic Acid Bacteria as Cell Factories Synthetic Biology and Metabolic Engineering describes the most recent developments on the metabolic engineering and synthetic biology of Lactic Acid Bacteria LAB for production of biologically active biomolecules enzymes organic acids bacteriocins bioactive peptides etc recombinant proteins and their role in bioremediation The book focuses on synthetic biology and metabolic engineering for the production of biologically active molecules such as bioactive peptides polysaccharides vitamins Riboflavin enzymes organic acids lactic and gamma aminobutyric acid flavor and aroma compounds bacteriocins recombinant proteins etc Individual chapters are devoted to the production of biosurfactants and their applications and the bioremediation of heavy metals by LAB from aquatic environments Two critical chapters address Genome editing of LAB opportunities for food feed and pharmaceuticals and A synthetic biology approach for plasmid DNA and Recombinant protein production This book will be a valuable resource for those working in biology biotechnology biological engineering chemical engineering microbiology food science and technology genetics and synthetic biology Explores the synthetic biology and metabolic engineering of lactic acid bacteria Highlights LAB enzymes such as phytase and amylase applications in food processing and the removal of anti nutrients from foods and lignocellulose bioconversion Presents insights into biosurfactant production and possible applications Includes information on bioremediation by LAB biofilm production mechanism and plasmid and recombinant protein production using synthetic biology **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

Microbial Cell Factories Deepansh Sharma, Baljeet Singh Saharan, 2018-03-22 Microbial Cell Factories is a conceptual reference based source including chapters covering microbial cell factories for industrial developments microbial biotechnology sustainable environmental solutions agriculture practices microorganisms in food processing metabolites as next generation food additives food processing and microbial cell factories in alternative energy fuel generation The book highlights trends and developments in the field of microbial products written by an international team of leading academic and research scholars Key Selling Features Highlights trends and developments in microbial biotechnology Systematically reviews microbial cell factories Explores the potential of microbial cell derived industrial production Synthesizes information on environmental and agricultural uses of microbial biotechnology Contributions from an international team of leading scholars

Probiotics for Human Nutrition in Health and Disease Evandro Leite de Souza, José Luiz de Brito Alves, Vincenzina Fusco, 2022-06-15 Probiotics for Human Nutrition in Health and Disease provides a comprehensive resource of information on traditional and emerging health concepts and the development and application evolution of probiotics and their role in prevention and treatment of human metabolic disorders and illnesses Key issues related to the general aspects of probiotics probiotics in human nutrition and probiotics in human health promotion and disease treatment are described and discussed Sections discuss general features of probiotics such as relationships with prebiotics probiotics in human nutrition including pregnancy lactation in children and in the elderly and the role of probiotics in human health and disease treatment This book provides the most significant knowledge mechanistic bases uses clinical perceptions case studies and perspectives about probiotics for humans considering possibilities and limitations in light of the appropriate available reference materials Written by highly qualified researchers and edited by a team of experts each chapter summarizes the latest available information on probiotics in human health and critically interprets the most significant evidence by applying the author's own practical experience from investigations with probiotics Present traditional and emerging concepts developments and the evolution of probiotics Provides key insights that characterize probiotics as promising and innovative options for human nutrition Discusses how probiotics can be used in a perspective of health promotion and prevention and treatment of human metabolic disorders and illnesses

Green Sustainable Process for Chemical and Environmental Engineering and Science Inamuddin, Charles Oluwaseun Adetunji, Abdullah M. Asiri, 2021-06-25 Green Sustainable Process for Chemical and Environmental Engineering and Science Microbially Derived Biosurfactants for Improving Sustainability in Industry explores the role biosurfactants may play in providing more sustainable environmentally benign and economically efficient solutions for mitigating challenges experienced in the industrial sector Sections cover an introduction to their production and review their application across a broad range of industry applications from polymer and biofuel production to lubrication and corrosion protection Drawing on the

knowledge of its expert team of global contributors the book provides useful insights for all those currently or potentially interested in developing or applying biosurfactants in their own work As awareness and efforts to develop greener products and processes continue to grow in the chemistry community biosurfactants are garnering much attention for the potential roles they can play both in reducing the use and production of more toxic products and as tools for addressing existing problems Highlights effective bioprocessing techniques bioprocessing agrowaste and factors affecting production Reflects on differing strains of fungi bacteria actinomycetes and yeast and reviews genetic modification of such strains for enhanced biosurfactant production Explores the use of biosurfactants across a broad range of industrial applications Biosurfactants

in Food Deepansh Sharma,2016-07-06 The present work aims to cover the perspectives of biosurfactants which can be of interest in food related industries and biomedical applications Biosurfactants are a structurally diverse group of surface active molecules extensively produced by bacteria yeast and fungi Despite having significant potential associated with emulsion formation anti adhesive and antimicrobial activities considerably few applications have been reported regarding applications of biosurfactants in food formulations and processing The utilization of biosurfactants which are highly functional in food and biomedical applications has become more and more significant Along with providing an overview of biosurfactant properties the book suggests how these properties could be applicable in the food industry **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

Microbial Surfactants R.Z. Sayyed,Hesham Ali El-Enshasy,Bee Hameeda,2021-11-29 Biosurfactants are the surface active biomolecules produced by microorganisms Biosurfactants have gained commercial significance due to their unique properties such as high surface activity high specificity low toxicity tolerance to pH temperature and ionic strength biodegradability excellent emulsifying and demulsifying ability antimicrobial activity ability to work under extreme conditions and relative ease of preparation Biosurfactants are used in several industries including organic chemicals petroleum petrochemicals mining metallurgy mainly bioleaching agrochemicals fertilizers foods beverages cosmetics pharmaceuticals and many others The aim of this book is to highlight key aspects from basics to advanced concepts classifications production and applications in various fields such as agriculture health bioremediation industries pharmaceutical oil recovery environment and nanotechnology It also serves as an excellent and expansive literature on fermentation recovery genomics

and metagenomics of biosurfactant production The book focuses on the biosurfactant production from bacteria the diversity of biosurfactant producing bacteria and industrial need of biosurfactant Biosurfactants Gloria Soberón-Chávez,2010-09-29 Biosurfactants tensio active compounds produced by living cells are now gaining increasing interest due to their potential applications in many different industrial areas in which to date almost exclusively synthetic surfactants have been used Their unique structures and characteristics are just starting to be appreciated In addition biosurfactants are considered to be environmentally friendly relatively non toxic and biodegradable This Microbiology Monographs volume deals with the most recent advances in the field of microbial biosurfactants such as rhamnolipids serrawettins trehalolipids mannosylerythritol lipids sophorolipids surfactin and other lipopeptides Each chapter reviews the characteristics of an individual biosurfactant including the physicochemical properties the chemical structures the role in the physiology of the producing microbes the biosynthetic pathways the genetic regulation and the potential biotechnological applications

The Top Books of the Year Biosurfactants Of Lactic Acid Bacteria Springerbriefs In Microbiology The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Biosurfactants Of Lactic Acid Bacteria Springerbriefs In Microbiology : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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