

Advances in Biochemical Engineering/Biotechnology 146
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Productive Biofilms

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Productive Biofilms Advances In Biochemical Engineering Biotechnology

**Hongxin Fu, Shang-Tian Yang, Chuang
Xue, Weihong Jiang, Petra Patakova**



Productive Biofilms Advances In Biochemical Engineering Biotechnology:

Productive Biofilms Kai Muffler, Roland Ulber, 2014-10-15 This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

Microbial Biofilms Bakrudeen Abdul, 2020-11-05 This book provides a broad range of applications and recent advances in the search for biofilm materials in nature. It also explains the future implications for biofilms in the areas of advanced molecular genetics, pharmaceuticals, pharmacology and toxicology. This book is comprised of 20 chapters from leading experts in the field and it examines immunology and microbiological studies derived from biofilms as well as explores environmental, agricultural and chemical impacts on biofilms. It is divided into five subdivisions: biofilms and its complications, biofilm infections in human body, detection of biofilm-forming pathogens, antibiofilm chemotherapy and biofilms production tools in aquaculture. This book may be used as a text or reference for everyone interested in microbial biofilms and their current applications. It is also highly recommended for environmental microbiologists, medical microbiologists, bioremediation experts and microbiologists working in biocorrosion, biofouling, biodegradation, water microbiology, quorum sensing and many other related areas. Scientists in academia, research laboratories and industry will also find it of interest. This book includes chapter homework problems and case studies. Powerpoints are also available for adopting instructors. Discusses and clarifies the resource of isolation and chemical properties from biofilms. Discusses the latest pharmaceutical, pharmacological and medicinal approaches toward the treatment of chronic and uncured diseases such as Alzheimer's, osteoporotic sexual dysfunction, sleep sickness, allergy, treatment, asthma, hair loss, AIDS, hypertension, antiaging etc. Examines immunology and microbiological studies derived from biofilms. Explores environmental, agricultural and chemical impacts on biofilms. Dr. Bakrudeen Ali Ahmed Abdul is an Associate Professor, the Head of the Department of Biochemistry and Dean of the School of Life Sciences Centre for Research and Development, CRD PRIST Deemed University, Vallam, Thanjavur, Tamil Nadu, India. His research areas include the application of plant biochemistry, bioactive compound production, biotechnological methods, development of pharmaceutical products and pharmacological studies.

Unconventional Organisms in Biotechnology Dirk Holtmann, 2025-11-20 This book reviews the potential of unconventional production organisms in biotechnology, emphasizing their role in enhancing bioprocess efficiency and sustainability. By focusing on a diverse range of microorganisms such as the archaea *Methanothermobacter*

thermautotrophicus and the fast growing bacterium *Vibrio natriegens* the book highlights the opportunities and needs for integrating these organisms into biotechnological applications The chapters cover topics such as the utilization of alternative substrates like CO₂ and methane adaptation to unusual process conditions and the exploitation of microbial diversity for enhanced biofilm growth and electron transport systems Each chapter begins with an overview of the microbiological and biochemical characteristics of the organisms followed by discussions on their biotechnological applications Readers will also find expert analysis of the current challenges and future trends in the application of these organisms making the book a must read for anyone interested in advancing bioprocess technologies Given its breadth this book is an invaluable resource for researchers scholars and practitioners in biotechnology and related fields It provides cutting edge insights into the development of processes based on alternative organisms and their role in shaping the future of biotechnology

Regenerative Engineering and Developmental Biology David M. Gardiner, 2017-08-21 *Regenerative Engineering and Developmental Biology Principles and Applications* examines cutting edge developments in the field of regenerative engineering Specific attention is given to activities that embrace the importance of integrating developmental biology and tissue engineering and how this can move beyond repairing damage to body parts to instead regenerate tissues and organs The text furthermore focusses on the five legs of the field of regenerative engineering including materials developmental biology stem cells physics and clinical translation This book was written by leading developmental biologists each chapter examines the processes that these biologists study and how they can be advanced by using the tools available in tissue engineering biomaterials Individual chapters are complete with concluding remarks and thoughts on the future of regenerative engineering A list of references is also provided to aid the reader with further research Ultimately this book achieves two goals The first encourages the biomedical community to think about how inducing regeneration is an engineering problem The second goal highlights the discoveries with animal regeneration and how these processes can be engineered to regenerate body parts *Regenerative Engineering and Developmental Biology Principles and Applications* was written with undergraduate and graduate level biomedical engineering students and biomedical professionals in mind

Understanding Microbial Biofilms Surajit Das, Neelam Amit Kungwani, 2022-10-27 Selected for Doody's Core Titles 2024 in Microbiology *Understanding Microbial Biofilms Fundamentals to Applications* focuses on the microbial biofilms of different environments The book provides a comprehensive overview of the fundamental aspects of microbial biofilms their existence in nature their significance and the different clinical and environmental problems associated with them The book covers both the fundamentals and applications of microbial biofilms with chapters on the introduction to the microbial community and its architecture physiology mechanisms and imaging of biofilms in nature and fungal algal and bacillus biofilm control In addition the book highlights the molecular and biochemical aspects of bacterial biofilms providing a compilation of chapters on the bacterial community and communication from different environments Finally the book covers

recent advancements in various aspects of microbial biofilms including the chapters on their biotechnological applications All the chapters are written by experts who have been working on different aspects of microbial biofilms Illustrates fundamental aspects surrounding microbial biofilms along with recent advancements Provides an overview on the principal aspects of biofilms i e formation regulation distribution control and application Updates on the progress on biofilm regulation through omics Serves as a classical manual for all researchers academicians and students who would want complete insights on biofilms in a single resource Covers all recent advancements and amendments on microbial biofilms Horizons in Bioprocess Engineering Ravindra Pogaku,2019-10-12 This book is divided into four parts that outline the use of science and technology for applications pertaining to chemical and bioprocess engineering The book endeavors to help academia researchers and practitioners to use the principles and tools of Chemical and Bioprocess Engineering in a pertinent way while attempting to point out the novel thoughts associated with the brain storming concepts encountered As an example the ability to use case studies appropriately is more important to most practitioners Current Developments in Biotechnology and Bioengineering Christian Larroche,M. Angeles Sanroman,Guocheng Du,Ashok Pandey,2016-09-17 Current Developments in Biotechnology and Bioengineering Bioprocesses Bioreactors and Controls provides extensive coverage of new developments state of the art technologies and potential future trends reviewing industrial biotechnology and bioengineering practices that facilitate and enhance the transition of processes from lab to plant scale which is becoming increasingly important as such transitions continue to grow in frequency Focusing on industrial bioprocesses bioreactors for bioprocesses and controls for bioprocesses this title reviews industrial practice to identify bottlenecks and propose solutions highlighting that the optimal control of a bioprocess involves not only maximization of product yield but also taking into account parameters such as quality assurance and environmental aspects Describes industrial bioprocesses based on the reaction media Lists the type of bioreactors used for a specific bioprocess application Outlines the principles of control systems in various bioprocesses **Development and Application of Clostridia as Microbial Cell-factories for Biofuels and Biochemicals Production** Hongxin Fu,Shang-Tian Yang,Chuang Xue,Weihong Jiang,Petra Patakova,2022-02-17 *Bioprospecting of Microbial Resources for Agriculture, Environment and Bio-chemical Industry* Pinki Saini,Pragya Mishra,2024-07-22 Recent years have seen a sharp rise in novel resistant pathogenic microorganisms Bioprospecting or the systematic identification evaluation and exploitation of the diversity of life in a certain place is a means of mining microorganisms for what is known as exploitable biology or valuable genetic information This information can then be used in the development of novel antibiotics enzymes food sources and energy sources all of which are of pressing industrial interest across agricultural nutraceutical pharmaceutical biomedical and bioenergetic fields Microbe derived bioactive compounds are currently of significant use to the development of sustainable approaches in environmental protection efforts However production challenges currently pose a barrier to the large scale commercialization of microbe derived products

Bioprospecting of Microbial Resources for Agriculture Environment and Bio Chemical Industry is a much needed review of the current achievements and emerging challenges facing the field of microbe derived compound production. It covers established knowledge while also proposing solutions to various limitations and introducing the application of microbe based products in pollution control and the development of greener technologies. As the preservation of global biodiversity and the production of novel antibiotics are both of significant importance to researchers and the general public alike, this text offers a timely and comprehensive look into the many uses of microbial products across industries. Specific uses covered in the text include the microbial based recovery of metals for e waste, the use of microbial nanowires in bioenergy applications, and omics based technologies in bioprospecting. Through a comprehensive investigation into the current and emerging research on microbial bioprospecting, this text will expand possibilities for the application of microbial resources in nutraceutical, pharmaceutical, biomedical, and bioenergetic fields. It offers valuable insights for administrators, policy makers, and consultants. It is also a helpful guide for researchers and students in the areas of microbiology, microbial prospecting, food and plant biotechnology, industrial microbiology, biochemical engineering, and environmental science.

Handbook of Greener Synthesis of Nanomaterials and Compounds Boris Kharisov, Oxana Kharissova, 2021-04-07. Modern techniques to produce nanoparticles, nanomaterials, and nanocomposites are based on approaches that frequently involve high costs, inefficiencies, and negative environmental impacts. As such, there has been a real drive to develop and apply approaches that are more efficient and benign. The Handbook of Greener Synthesis of Nanomaterials and Compounds provides a comprehensive review of developments in this field, combining foundational green and nano chemistry with the key information researchers need to assess, select, and apply the most appropriate green synthesis approaches to their own work. Volume 2: Synthesis at the Macroscale and Nanoscale explores synthesis at different scales. Beginning with a selection of chapters discussing a range of macroscale topics, the book goes on to explore such important areas as metal nanoparticle synthesis, biogenic synthesis, and synthesis of enzymes. Further chapters explore the role of Metal Organic Frameworks in greener synthesis, synthesis from renewable sources, and impacts of nanomaterials synthesized by greener methods. Discusses the synthesis of widely different groups of chemical compounds and distinct materials. Reviews synthesis at both the macro and nanoscales, including information on metal organic frameworks, carbon dots, and ionic liquids. Provides examples of applications to support learning and guide implementation of theory in practice.

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