

ADVANCES IN
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Advances In Applied Microbiology Volume 77

Giancarlo Lancini, Francesco Parenti



Advances In Applied Microbiology Volume 77:

Advances in Applied Microbiology Allen I. Laskin, Geoffrey M. Gadd, Sima Sariaslani, 2011-11-16 Published since 1959
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Published since 1959 Advances in Applied Microbiology continues to be one of the most widely read and authoritative review sources in microbiology The series contains comprehensive reviews of the most current research in applied microbiology Recent areas covered include bacterial diversity in the human gut protozoan grazing of freshwater biofilms metals in yeast fermentation processes and the interpretation of host pathogen dialogue through microarrays Eclectic volumes are supplemented by thematic volumes on various topics including Archaea and sick building syndrome Impact factor for 2011 5 233 Contributions from leading authorities Informs and updates on all the latest developments in the field *Advances in Applied Biotechnology* Marian Petre, 2012-01-20 Biotechnology is the scientific field of studying and applying the most efficient methods and techniques to get useful end products for the human society by using viable micro organisms cells and tissues of plants or animals or even certain functional components of their organisms that are grown in fully controlled conditions to maximize their specific metabolism inside fully automatic bioreactors It is very important to make the specific difference between biotechnology as a distinct science of getting valuable products from molecules cells or tissues of viable organisms and any other applications of bioprocesses that are based on using the whole living plants or animals in different fields of human activities such as bioremediation environmental protection organic agriculture or industrial exploitation of natural resources The volume *Advances in Applied Biotechnology* is a scientific book containing recent advances of selected research works that are ongoing in certain biotechnological applications Fourteen chapters divided in four sections related to the newest biotechnological achievements in environmental protection medicine and health care biopharmaceutical producing molecular genetics and tissue engineering are presented Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1979 **Trends in Biotechnology of Polyextremophiles** Maulin P. Shah, Satarupa Dey, 2024-06-27 This book covers polyextremophiles the latest biotechnological advances and developments in the study of extremophilic diversity with a focus on genetics proteomics and the impact of climate change It sets out new perspectives on the polyextremophiles mechanism of tolerance to extreme conditions and it also outlines their applications in bioremediation

therapeutics and astrobiology research Expert contributors discuss topics such as genes associated with polyextremophiles the applications of genome editing in extremophiles secondary metabolites from extremophiles and the biocatalytic potential of extemozymes isolated from extremophiles Readers will find in this book several case studies that collate the diverse applications of polyextremophiles for bioremediation including the use of extremophilic algae in wastewater treatment nutrient recovery and animal feed production the treatment of industrial waste pharmaceuticals and personal care products and the removal of microplastics heavy metals and E waste Particular attention is given to the use of polyextremophiles for bioremediation of abandoned mining sites The book also presents bioactive compounds from halophiles and their biomedical applications and discusses the implications of polyextremophiles in astrobiology research Given its breadth this book is a valuable contribution to the biotechnology of polyextremophiles by overviewing research to date and exploring challenges and opportunities for future research It also benefits a broad readership from scholars researchers and students to industry professionals interested in the study and development of biotechnological applications of polyextremophiles

Phage Therapy - Part A ,2023-09-22 Phage Therapy Part A Volume 200 is an informative text on phage and their use for treatment in bacterial infections The book highlights a number of aspects of the phage in a way that can help students researchers clinicians entrepreneurs and stakeholders perform their research with great interest Chapters in this new release cover An introduction to bacteriophage and their therapeutic applications Isolation screening and characterization of phage Synthetic phage and their application in phage therapy Phage engineering for development of diagnostic tools Phage design and directed evolution to evolve phage for therapy and more Additional sections cover Host phage interactions and modelling for therapy Phage and phage cocktails formulations Phage for treatment of Escherichia coli infection Phage for treatment of Klebsiella pneumoniae infection Phage for treatment of Salmonella spp infection Phage for treatment of Staphylococcus aureus infection and Phages for treatment of Acinetobacter baumannii infection Includes discussions on phage isolation screening and characterization Covers synthetic phage phage for diagnostic directed evolution and host interaction Presents the latest on phage for treatment of bacterial infections

Nanocomposite and Nanohybrid Materials Rajesh Kumar Verma,Devendra Kumar Singh,J. Paulo Davim,2023-11-06 The volume Nanocomposite and Nanohybrid Materials Processing and Applications is an outstanding resource for exploring the findings and recent trends of nanocomposites and nanohybrid materials Herein a full grasp of cutting edge research new technologies and exciting opportunities linked with nanocomposites and nanohybrids Nanomaterials including their synthesis development and advanced properties are thoroughly investigated Several processes for preparing nanomaterials are presented to the reader along with their characteristics and development phase It offers the latest applications of nanoparticles for diagnosing and treating neurological disorders and their use in biological imaging and targeted cancer treatments This provides a strong basis for future study and innovation in this intriguing issue that is very important to methodology qualitative approaches and

applications *Ecophysiology, Abiotic Stress Responses and Utilization of Halophytes* Mirza Hasanuzzaman, Kamrun Nahar, Münir Öztürk, 2019-04-12 Halophytes are those plant species that can tolerate high salt concentrations There are diversified species of halophytes suited for growth in various saline regions around the world e g coastal saline soil soils of mangrove forests wetlands marshlands lands of arid and semiarid regions and agricultural fields These plants can be grown in soil and water containing high salt concentrations and unsuitable for conventional crops and can be good sources of food fuel fodder fiber essential oils and medicine Moreover halophytes can be exploited as significant and major plant species for the desalination and restoration of saline soils as well as phytoremediation This book highlights recent advances in exploring the unique features of halophytes and their potential uses in our changing environment *Microbial Interactions at Nanobiotechnology Interfaces* R. Navanietha Krishnaraj, Rajesh K. Sani, 2021-11-02 MICROBIAL INTERACTIONS AT NANOBIO TECHNOLOGY INTERFACES This book covers a wide range of topics including synthesis of nanomaterials with specific size shape and properties structure function relationships tailoring the surface of nanomaterials for improving the properties interaction of nanomaterials with proteins microorganism eukaryotic cells and applications in different sectors This book also provides a strong foundation for researchers who are interested to venture into developing functionalized nanomaterials for any biological applications in their research Practical concepts such as modelling nanomaterials and simulating the molecular interactions with biomolecules transcriptomic or genomic approaches advanced imaging techniques to investigate the functionalization of nanomaterials interaction of nanomaterials with biomolecules and microorganisms are some of the chapters that offer significant benefits to the researchers Nanotechnology and In Silico Tools Mital Kaneria, Kalpna Rakholiya, 2023-07-09 Nanotechnology and In Silico Tools Natural Remedies and Drug Discovery provides the latest information and updates in the area of drug discovery It covers aspects like nanomedicines bioinformatics molecular docking molecular modeling QSAR virtual screening and computational chemistry as well as metabolomics research using various tools The drug discovery process accelerates the design of new leads for various life threatening diseases and natural medicines Silico tools have been an integral part of the drug discovery process playing a major role as a template for drug discovery and offering a holistic approach to better management of various diseases Nanotechnology and In Silico Tools Natural Remedies and Drug Discovery combines the principles of natural medicines with refined modern technology to help chemists in the development of a more ecofriendly and effective discovery process Combines principles of natural medicines with refined modern technology Provides the latest updates on drug discovery Covers technologies for synthetic products that can be applied for the investigation of plant derived natural remedies **Advances in Composite Materials for Medicine and Nanotechnology** Brahim Attaf, 2011-04-01 Due to their good mechanical characteristics in terms of stiffness and strength coupled with mass saving advantage and other attractive physico chemical properties composite materials are successfully used in medicine and nanotechnology fields To this end the chapters composing the book have been divided into

the following sections medicine dental and pharmaceutical applications nanocomposites for energy efficiency characterization and fabrication all of which provide an invaluable overview of this fascinating subject area The book presents in addition some studies carried out in orthopedic and stomatological applications and others aiming to design and produce new devices using the latest advances in nanotechnology This wide variety of theoretical numerical and experimental results can help specialists involved in these disciplines to enhance competitiveness and innovation

Fungi in Extreme Environments: Ecological Role and Biotechnological Significance Sonia M. Tiquia-Arashiro, Martin

Grube, 2019-07-22 Over the last decades scientists have been intrigued by the fascinating organisms that inhabit extreme environments These organisms known as extremophiles thrive in habitats which for other terrestrial life forms are intolerably hostile or even lethal Based on such technological advances the study of extremophiles has provided over the last few years ground breaking discoveries that challenge the paradigms of modern biology In the new bioeconomy fungi in general play a very important role in addressing major global challenges being instrumental for improved resource efficiency making renewable substitutes for products from fossil resources upgrading waste streams to valuable food and feed ingredients counteracting life style diseases and antibiotic resistance through strengthening the gut biota making crop plants more robust to survive climate change conditions and functioning as host organisms for production of new biological drugs This range of new uses of fungi all stand on the shoulders of the efforts of mycologists over generations The book is organized in five parts I Biodiversity Ecology Genetics and Physiology of Extremophilic Fungi II Biosynthesis of Novel Biomolecules and Extremozymes III Bioenergy and Biofuel synthesis and IV Wastewater and biosolids treatment and V Bioremediation

Bioethanol Marco Aurelio Pinheiro Lima, 2012-02-01 Recent studies have shown strong evidence of human activity impact on the climate of the planet Higher temperatures and intensification of extreme weather events such as hurricanes are among the consequences This scenario opens up several possibilities for what is now called green or low carbon economy We are talking about creating new businesses and industries geared to develop products and services with low consumption of natural resources and reduced greenhouse gases emission Within this category of business biofuels is a highlight and the central theme of this book The first section presents some research results for first generation ethanol production from starch and sugar raw materials Chapters in the second section present results on some efforts around the world to develop an efficient technology for producing second generation ethanol from different types of lignocellulosic materials While these production technologies are being developed different uses for ethanol could also be studied The chapter in the third section points to the use of hydrogen in fuel cells where this hydrogen could be produced from ethanol

Innovations in Biotechnology Eddy C. Agbo, 2012-02-17 Innovations in Biotechnology provides an authoritative crystallization of some of the evolving leading edge biomedical research topics and developments in the field of biotechnology It is aptly written to integrate emerging basic research topics with their biotechnology applications It also challenges the reader to appreciate the

role of biotechnology in society addressing clear questions relating to biotech policy and ethics in the context of the research advances In an era of interdisciplinary collaboration the book serves an excellent indepth text for a broad range of readers ranging from social scientists to students researchers and policy makers Every topic weaves back to the same bottom line how does this discovery impact society in a positive way

Antibiotics Giancarlo Lancini, Francesco Parenti, 2013-11-09 Antibiotics are among the most widely prescribed drugs in both human and veterinary medicine Furthermore they are used to protect plants against bacterial and fungal diseases to decontaminate the shells of eggs and to improve weight gain and feed conversion in a variety of food animals Many antibiotics in addition have been essential tools in the elucidation of specific cellular functions Genetic engineering for example would not be what it is today without the use of antibiotics in the selection of easily determined genetic markers Production of antibiotics involves a diverse group of professionals the fermentation technologist the bioengineer the extraction chemist To improve productivity an understanding of the biosynthetic pathway and the mechanisms of its control is often useful After the more than 40 years since the discovery of penicillin the biologist is still unable to answer basic questions Why are antibiotics produced by only a small number of microbial groups What is the function of antibiotics in nature When we started to teach our course on the science of antibiotics at the University of Pavia and the University of Milan we realized that there was no book that presented the basic facts and concepts on all aspects of this diverse science This book therefore arose out of our teaching need Our experience in the discovery development and production of antibiotics has certainly imparted a practical nuance to this book

World Ocean Assessment Alan Simcock, 2017-04-17 This United Nations report examines the current state of knowledge of the world's oceans for policymakers and provides a reference for marine science courses

Biogas Production Ackmez Mudhoo, 2012-05-01 Biogas Production covers the most cutting edge pretreatment processes being used and studied today for the production of biogas As an increasingly important piece of the energy pie biogas and other biofuels are being used more and more around the world in every conceivable area of industry and could be a partial answer to the energy problem and the elimination of global warming This book will highlight the recent advances in the pretreatment and value addition of lignocellulosic wastes LCW with the main focus on domestic and agro industrial residues Mechanical physical and biological treatment systems are brought into perspective The main value added products from lignocellulosic wastes are summarized in a manner that pinpoints the most recent trends and the future directions Physico chemical and biological treatment systems seem to be the most favored options while biofuels biodegradable composites and biosorbents production paint a bright picture of the current and future bio based products Engineered microbes seem to tackle the problem of bioconversion of substrates that are otherwise nonconvertible by conventional wild strains Although the main challenge facing LCW utilization is the high costs involved in treatment and production processes some recent affordable processes with promising results have been proposed Future trends are being directed to nanobiotechnology and genetic engineering for improved

processes and products *Handbook of Functionalized Nanomaterials for Industrial Applications* Chaudhery Mustansar Hussain, 2020-04-17 Functionalized nanomaterials have extremely useful properties which can outperform their conventional counterparts because of their superior chemical physical and mechanical properties and exceptional formability They are being used for the development and innovation in a range of industrial sectors However the use of functionalized nanomaterials is still in its infancy in many industrial settings Functionalized nanomaterials have the potential to create cheaper and more effective consumer products and industrial processes However they also could have adverse effects on the environment human health and safety and their sustainability is questionable if used incorrectly This book discusses the opportunities and challenges of using functionalized nanomaterials in a variety of major industrial sectors Handbook of Functionalized Nanomaterials for Industrial Applications provides a concise summary of the major applications of functionalized nanomaterials in industry today It covers the enhancements in industrial techniques and processes due to functionalized nanomaterials showing how they substantially improve the performance of existing procedures and how they can deliver exciting consumer products more cheaply Emphasis is given to greener approaches leading to more sustainable products and devices The legal economical and toxicity aspects of functionalized nanomaterials are also discussed in detail

Alternative Fuel Maximino Manzanera, 2011-08-09 Renewable energy sources such as biodiesel bioethanol biomethane biomass from wastes or hydrogen are subject of great interest in the current energy scene These fuels contribute to the reduction of prices and dependence on fossil fuels In addition energy sources such as these could partially replace the use of what is considered as the major factor responsible for global warming and the main source of local environmental pollution For these reasons they are known as alternative fuels There is an urgent need to find and optimise the use of alternative fuels to provide a net energy gain to be economically competitive and to be producible in large quantities without compromising food resources *Yeast Membrane Transport* José Ramos, Hana Sychrová, Maik Kschischo, 2015-12-31 This contributed volume reviews the recent progress in our understanding of membrane transport in yeast including both *Saccharomyces cerevisiae* and non conventional yeasts The articles provide a summary of the key transport processes and put these in a systems biology context of cellular regulation signal reception and homeostasis After a general introduction readers will find review articles covering the mechanisms and regulation of transport for various substrates ranging from diverse nutrients to cations water and protons These articles are complemented by a chapter on extremophilic yeast a chapter on the mathematical modelling of ion transport and two chapters on the role of transport in pathogenic yeasts and antifungal drug resistance Each article provides both a general overview of the main transport characteristics of a specific substrate or group of substrates and the unique details that only an expert working in the field is able to transmit to the reader Researchers and students of the topic will find this book to be a useful resource for membrane transport in yeast collecting information in one complete volume which is otherwise scattered across many papers This might also be interesting for scientists investigating

other species in order to compare transport mechanisms with known functions in yeast with the cells on which they work

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