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Biotechnological Applications of Biodiversity

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Dirk Holtmann



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Biotechnological Applications of Biodiversity Joydeep Mukherjee,2014-11-22 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 **The Handbook of Microbial**

Bioresources Vijai Kumar Gupta,Gauri Dutt Sharma,Maria G Tuohy,Rajeeva Gaur,2016-06-27 Microbial technology plays an integral role in the biotechnology bioengineering biomedicine biopharmaceuticals and agriculture sector This book provides a detailed compendium of the methods biotechnological routes and processes used to investigate different aspects of microbial resources and applications It covers the fundamental and applied aspects of microorganisms in the health industry agriculture and environmental sectors reviewing subjects as varied and topical as pest control health and industrial developments and animal feed **Biodiversity, Bioengineering, and Biotechnology of Fungi** Chakravarthula

Manoharachary,Harikesh Bahadur Singh,Sanjay Singh,Yash Pal Sharma,2025-04-02 Biodiversity Bioengineering and Biotechnology of Fungi examines various fungi genera and their biotechnological applications The book covers the most common genera of fungi their structure their taxonomy the maintenance and organization of a permanent study collection with associated databases and their application in diverse sectors including industrial applications in the food environment bioenergy biorefinery and biopharma sectors Compiled by an international team of fungal biologists Biodiversity Bioengineering and Biotechnology of Fungi provides a wealth of information particularly on the diversity of fungal genera and their biotechnological contributions The book is a valuable resource for scientists researchers health practitioners nutritionists industry professionals advanced students and all those who wish to broaden their knowledge in the allied field Covers all fungal genera from molds and mushrooms to slime molds Describes the taxonomy of each group of fungi Explores the relationship between fungi and their host Discusses the potential biotechnological applications of different fungal genera

Biotechnological Applications of Extremophilic Microorganisms Natuschka M. Lee,2020-10-26 This book provides a broad overview how extremophiles can be used in biotechnology including for the production and degradation of compounds It reviews various recent discoveries and applications related to a large variety of extremophiles considering both prokaryotes as well as eukaryotes Biological Extinction Partha Dasgupta,Peter Raven,Anna McIvor,2019-09-05 Questions why species are becoming extinct and how we can protect the natural world on which we all depend *Sustainable Utilization and*

Conservation of Plant Genetic Diversity Jameel M Al-Khayri, Shri Mohan Jain, Suprasanna Penna, 2024-03-28 This book collates a wide spectrum of topics relevant to contemporary research achievement in sustainable utilization of plant genetic resources and conservation of plant genetic diversity within the framework of different crop systems. It introduces the status of crop genetic diversity and provides prospects for conservation of crop genetic diversity for sustainable agriculture. Plant genetic diversity is crucial for food security and agro ecosystem maintenance paving ways to achieve sustainable agriculture development. This necessitates consciously and judiciously the conservation of all existing plant genetic resources for sustainable use in a variety of applications for human welfare. The wild and traditional landraces have generated an increased interest as a repertoire of valuable traits for breeding and improvement of cultivated germplasm. Internationally concerted actions and policies toward for the conservation and management of plant genetic diversity are mounting from the organization levels to national policies as deemed appropriate for the sustainable development goals. This needs an understanding of genetic diversity of different crops, ecological drivers and the structural changes within genetic diversity due to climate change. It is also equally important to evolve knowledge on what, how and where to conserve the existing plant genetic resources for present and future use. Assessment of the genetic diversity presents in a wild and traditional agro ecosystem is another step towards effective utilization. In the past few years, advanced breeding tools have been developed which have offered great promise for efficient modification of targeted traits. This book consolidates current knowledge in the above core areas of plant genetic diversity and conservation. It is an essential reference for professionals, researchers, policy makers and commercial entrepreneurs concerned with plant genetic diversity and breeding to achieve enhanced agricultural productivity and sustainability of food resources to ensure food security. The book is also invaluable for graduate students involved in agriculture research.

Actinomycetes in Marine and Extreme Environments Ipek Kurtboke, 2024-02-06 The discovery and development of antibiotics has been one of the most significant advances in medicine. In a golden era lasting from the 1940s to the late 1960s, antibiotic research provided mankind with a wide range of structurally diverse and effective agents for the treatment of microbial infections. Since then, actinomycetes, most notably members of the genus *Streptomyces*, have uninterruptedly proved to be a particularly rich source of antibiotics and other therapeutic and biotechnologically important compounds. This book brings together expert actinomycetologists to communicate the importance of finding novel antibiotic-producing actinomycetes in extreme and marine environments in the light of molecular advances.

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

Advances in Grape and Wine Biotechnology Antonio Morata,Iris Loira,2019-09-04 *Advances in Grape and Wine Biotechnology* is a collection of fifteen chapters that addresses different issues related to the technological and biotechnological management of vineyards and winemaking It focuses on recent advances in the field of viticulture with interesting topics such as the development of a microvine model for research purposes the mechanisms of cultivar adaptation and evolution in a climate change scenario and the consequences of vine water deficit on yield components Other topics include the metabolic profiling of different *Saccharomyces* and non *Saccharomyces* yeast species and their contribution in modulating the sensory quality of wines produced in warm regions the use of new natural and sustainable fining agents and available physical methods to reduce alcohol content This volume will be of great interest to researchers and vine or wine professionals

Microbial Genomics: Clinical, Pharmaceutical, and Industrial Applications Huseyin Tombuloglu,Amal Mahmoud,2024-07-27 As the field of genomics has progressed our understanding of microbiology has also developed With the advent of next generation sequencing methods and advancements in instrumental resolution complex transcriptome proteome and metabolome data could be analyzed as well as detailed annotation of microbial genomes *Microbial Genomics Clinical Pharmaceutical and Industrial Applications* focuses on the various applications of microbial genomics in clinical pharmaceutical and industrial fields It consists of four parts devoted to bacterial viral and fungal genomics as well as their applications in clinical pharmaceutical and industrial fields Chapters are written by experts in their respective disciplines and are tightly organized with an introduction to detailed descriptions available software implementation applications advanced topics summaries analytic questions exercises and suggested readings Throughout this book the latest genomics and biotechnological developments and discoveries as well as open problems and future challenges on microbial genomics will be highlighted Readers will be introduced to state of the art developments and trends of microbial genomics its clinical pharmaceutical and industrial applications The book will be beneficial for researchers who study microbial genomics in universities post graduate and graduate programs biology biotechnology medicine genetics microbiology industrial and environmental microbiology etc as well as the pharmaceutical and industrial sector Presents the recent genomic developments in the industrial applications of microorganisms Summarizes recent developments in microbial genomics emphasizing the role of next generation

sequencing in functional genomics Focus on how transcriptomics can help better understand host responses to pathogen infection Describes applications of genomics in clinical microbiology

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