

R. Margesin - F. Schinner (Eds.)

Biotechnological Applications of Cold-Adapted Organisms



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Biotechnological Applications Of Coldadapted Organisms:

Biotechnological Applications of Cold-Adapted Organisms Rosa Margesin, Franz Schinner, 2012-12-06 Cold adapted microorganisms plants and animals are widely distributed in nature since more than 80% of the biosphere show temperatures below 0°C. These organisms play a major role in the processes of nutrient turnover and primary biomass production in cold ecosystems and have adapted to their environment in such a way that metabolic processes reproduction and survival strategies are optimal. Cold adapted organisms have received little attention so far. Only within the past few years it has been recognized that these organisms and their products provide a large potential for biotechnological applications. Biochemical reactions can be performed at low temperatures and terminated by mild heat treatment without the risk of contaminations by mesophiles or thermophiles. Thus the practical utilization of cold adapted organisms would constitute a considerable progress towards the saving of energy. In this book prominent authors from industries and universities present new concepts and developments. Their articles summarize the actual and potential applications of cold adapted organisms and viruses in several fields of biotechnology such as enzymes health food agriculture and environment. Further chapters cover the application of cold adapted microorganisms for bio mining and as genetic tools. We are most grateful to the authors for their excellent contributions to Brigitte Marschall and Alexander Koren for skilful preparation of the layout and to the publishers especially to Dr Dieter Czeschlik for their cooperation.

Cold-Adapted Organisms Rosa Margesin, Franz Schinner, 2013-03-14 Major parts of the oceans and lands of our planet are permanently or temporarily exposed to temperatures below 10°C. Microorganisms plants and animals living under these conditions have adapted to their environments in such a way that metabolic processes reproduction and survival strategies are optimal for their natural biotopes. This book presents the most recent knowledge of the ecology and the physiology of cold adapted microorganisms plants and animals and explains the mechanisms of cold adaptation on the enzymatic and molecular level including results from the first crystal structures of enzymes of cold adapted organisms.

Physics and Chemistry Basis of Biotechnology M. de Cuyper, Jeff W.M. Bulte, 2001-08-31 At the end of the 20th century a tremendous progress was made in biotechnology in its widest sense. This progress was largely possible as a result of joint efforts of top academic researchers in both pure fundamental sciences and applied research. The surplus value of such interdisciplinary approaches was clearly highlighted during the 9th European Congress on Biotechnology that was held in Brussels Belgium 11-15 July 1999. The present volume in the Focus on Biotechnology series entitled Physics and Chemistry Basis for Biotechnology contains selected presentations from this meeting. A collection of experts has made serious efforts to present some of the latest developments in various scientific fields and to unveil prospective evolutions on the threshold of the new millennium. In all contributions the emphasis is on emerging new areas of research in which physicochemical principles form the foundation. In reading the different chapters it appears that more than ever significant advances in biotechnology very often depend on

breakthroughs in the biotechnology itself e g **Survival Strategies in Cold-adapted Microorganisms** Reeta Goel,Ravindra Soni,Deep Chandra Suyal,Mahejibin Khan,2021-12-08 Extremophiles have unique physiological properties thus considered to be ideal candidates for industrial development This book present concepts on cold adapted microorganisms centered on four different aspects i diversity of cold adapted microbes ii their ecology physiology and metabolism iii omics research in the field and iv their potential applications This volume collates the recent developments and innovations with respect to these microorganisms This book is meant for researchers biochemists industries and government agencies interested in cold active microbes and their products Also would be of interest to NGOs and progressive farmers which are working for higher altitude ecosystems throughout the globe *Cold-adapted Yeasts* Pietro Buzzini,Rosa Margesin,2013-10-07 Yeasts are a versatile group of eukaryotic microorganisms exhibiting heterogeneous nutritional profiles and an extraordinary ability to survive in a wide range of natural and man associated ecosystems including cold habitats Cold adapted yeasts inhabit numerous low temperature environments where they are subjected to seasonal or permanent cold conditions Hence they have evolved a number of adaptation strategies with regard to growth and reproduction metabolic activities survival and protection Due to their distinctive ability to thrive successfully at low and even subzero temperatures cold adapted yeasts are increasingly attracting attention in basic science and industry for their enormous biotechnological potential This book presents our current understanding of the diversity and ecology of cold adapted yeasts in worldwide cold ecosystems their adaptation strategies and their biotechnological significance Special emphasis is placed on the exploitation of cold adapted yeasts as a source of cold active enzymes and biopolymers as well as their benefits for food microbiology bioremediation and biocontrol Further aspects of food biodeterioration are considered

EXTREMOPHILES - Volume II Charles Gerday ,Nicolas Glansdorff,2009-11-05 Extremophiles is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The extremophiles represent some of the most fascinating organisms on Earth for the simple reason that they inhabit extreme environments characterized by physical and or chemical properties which render them totally inhospitable for most of the other organisms The work has been sub divided into 6 main topics related to the above mentioned environmental conditions These topics consist of a general introduction and of several more specialized chapters that have been written by scientists prominent in the field The chapters cover the description of the biotopes and inhabiting species their specific characteristics as well as what we know about the molecular mechanisms which constitute the fundamentals of the resistance and adaptation of extremophiles to extreme conditions The theme Extremophiles is headed by two chapters introducing the subject for non specialists in the field one covering the basic concepts and the other one giving an overview of the biotopes These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy

analysts managers and decision makers and NGOs **Polar Microbiology** Robert V. Miller, Lyle Whyte, 2011-12-29 Sheds new light on the microbial ecology and physiology of the Earth's polar regions Examines the microbial investigations during the International Polar Year of 2008 focusing on the Arctic and Antarctic along with earlier investigations on critical environmental issues such as climate change ozone depletion and elemental cycling Offers a survey of what is known and unknown about the microbial inhabitants of polar environments addresses the adaptations and physiology of cold adapted microorganisms and explores the ecological role that polar microbial communities play in biogeochemical cycling Presents the challenges that polar and subpolar microorganisms face and describes the lowest temperatures in which microbial life can exist and the prospects for life on other planets Recommended for a general microbiology audience as well as for scientists and students in all areas of biology and geomicrobiology

New and Future Developments in Microbial Biotechnology and Bioengineering Harikesh Bahadur Singh, Anukool Vaishnav, 2021-11-03 This book provides a comprehensive overview of different agriculturally important microorganisms and their role as plant biostimulants Arbuscular Mycorrhizal Fungi Trichoderma Cyanobacteria Endophytes and Plant growth promoting rhizobacteria have the potential to promote plant growth disease management nutrient acquisition stress alleviation and soil health management Presenting an all inclusive collection of information this book will be important for students academicians researchers working in the field of sustainable agriculture microbial technology and biochemical engineers It will also be of use for policymakers in the area of food security and sustainable agriculture Introduces new microorganisms as plant biostimulants Describes potential mechanisms of plant microbe interaction for stress alleviation and crop improvement Provides information about different microbial formulations consortium and their application to the alleviation of different abiotic stresses salt drought nutrient deficiency heavy metal etc in plants Discusses about psychrophilic microbes endophytic microbes and total plant microbiome and their uses as biostimulants for improving plant health

Food Biotechnology Anthony Pometto, Kalidas Shetty, Gopinadhan Paliyath, Robert E. Levin, 2005-10-11 Revised and updated to reflect the latest research and advances available Food Biotechnology Second Edition demonstrates the effect that biotechnology has on food production and processing It is an authoritative and exhaustive compilation that discusses the bioconversion of raw food materials to processed products the improvement of food quality the importance of food safety the design of ingredients for functional foods and the biochemical advances made in traditional fermentation It also provides an international perspective on the discipline as a whole The content of the book is divided into three sections for easy reference The first section provides an overview of the basic principles and explains microbial applications The next section explains plant tissue culture techniques genetic engineering of plants and animals functional food ingredients and their health benefits probiotics antibody production for oral vaccines and topics on enzyme technologies The final section discusses food safety issues and the various bio processing and fermentation biotechnologies used throughout the world Food Biotechnology Second Edition

is an indispensable guide for anyone who needs to understand the latest information on food production and processing from a biotechnology perspective **Microbial Versatility in Varied Environments** Raghvendra Pratap Singh, Geetanjali Manchanda, Indresh Kumar Maurya, Yunlin Wei, 2020-04-09 The book compiles the latest studies on microorganisms thriving in extreme conditions. Microbes have been found in extremely high and low temperatures, highly acidic to saline conditions, from deserts to the Dead Sea, from hot springs to underwater hydrothermal vents; the diversity is incredible. The various chapters highlight the microbial life and describe the mechanisms of tolerance to these harsh conditions and show how an understanding of these phenomena can help us exploit the microbes in biotechnology. The theme of the book is highly significant since life in these environments can give vital clues about the origin and evolution of life on Earth, as a lot of these conditions simulate the environment present billions of years ago. Additionally, the study of adaptation and survival of organisms in such environments can be important for finding life on other planets. This book shall be useful for students, researchers, and course instructors interested in evolution, microbial adaptations, and ecology in varied environments.

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Table of Contents Biotechnological Applications Of Coldadapted Organisms

1. Understanding the eBook Biotechnological Applications Of Coldadapted Organisms
 - The Rise of Digital Reading Biotechnological Applications Of Coldadapted Organisms
 - Advantages of eBooks Over Traditional Books
2. Identifying Biotechnological Applications Of Coldadapted Organisms
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biotechnological Applications Of Coldadapted Organisms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biotechnological Applications Of Coldadapted Organisms
 - Personalized Recommendations
 - Biotechnological Applications Of Coldadapted Organisms User Reviews and Ratings
 - Biotechnological Applications Of Coldadapted Organisms and Bestseller Lists
5. Accessing Biotechnological Applications Of Coldadapted Organisms Free and Paid eBooks

- Biotechnological Applications Of Coldadapted Organisms Public Domain eBooks
 - Biotechnological Applications Of Coldadapted Organisms eBook Subscription Services
 - Biotechnological Applications Of Coldadapted Organisms Budget-Friendly Options
6. Navigating Biotechnological Applications Of Coldadapted Organisms eBook Formats
 - ePub, PDF, MOBI, and More
 - Biotechnological Applications Of Coldadapted Organisms Compatibility with Devices
 - Biotechnological Applications Of Coldadapted Organisms Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biotechnological Applications Of Coldadapted Organisms
 - Highlighting and Note-Taking Biotechnological Applications Of Coldadapted Organisms
 - Interactive Elements Biotechnological Applications Of Coldadapted Organisms
 8. Staying Engaged with Biotechnological Applications Of Coldadapted Organisms
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biotechnological Applications Of Coldadapted Organisms
 9. Balancing eBooks and Physical Books Biotechnological Applications Of Coldadapted Organisms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biotechnological Applications Of Coldadapted Organisms
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Biotechnological Applications Of Coldadapted Organisms
 - Setting Reading Goals Biotechnological Applications Of Coldadapted Organisms
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Biotechnological Applications Of Coldadapted Organisms
 - Fact-Checking eBook Content of Biotechnological Applications Of Coldadapted Organisms
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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