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Enzymes and Proteins from
Hyperthermophilic Microorganisms



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Enzymes And Proteins From Hyperthermophilic Microorganisms

**Alan J. Barrett, Neil D. Rawlings, J. Fred
Woessner**



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Enzymes and Proteins from Hyperthermophilic Microorganisms, 1996-09-09 Praise for the Series The authority originality and editing of the review are first class Nature The Advances in Protein Chemistry series has been a major factor in the education of protein chemists Journal of the American Chemical Society

Developments and Applications of Enzymes From Thermophilic Microorganisms Pratima Bajpai, 2023-01-21 Developments and Applications of Enzymes from Thermophilic Microorganisms extensively presents the industrial application of thermophilic hyperthermophilic enzymes The book brings thorough and in depth coverage on the role of these enzymes in a broad range of industries focusing on present scenarios of these enzymes in biofuel industries including recent advancements The use of thermophilic enzymes in 2G biorefineries may enable the whole production process to take place at high temperatures allowing increased reaction rate and reduced costs Researchers in biochemistry microbiology microbial technology biotechnology molecular biology and bioresource technology will benefit from the new insights given on potential applications of hyperthermophiles Hyperthermophilic enzymes many of which survive at temperatures at or above 100°C contain novel macromolecules and metabolic systems which represent a vast resource for fundamental molecular and physiological studies and for potential exploitation in biotechnology Covers the role of thermophilic hyperthermophilic enzymes in a broad range of industries Explains the Importance of thermophilic hyperthermophilic enzymes in biorefineries using examples of lignocellulose and starch conversions to desired products Discusses the existing and potential applications of thermophiles hyperthermophilic enzymes

Enzymes in the Environment Richard G. Burns, Richard P. Dick, 2002-01-29 The need to understand the biological processes that are important for essential aquatic and terrestrial ecosystem function has prompted much research into the field of ecological enzymology This book presents the two broad areas of application in a compilation of reviews by 21 international experts in their respective fields The first explores enzymatic activities to assess the processes or mechanisms that operate in a given system such as the rhizosphere plant leaves and shoots soil surfaces and biofilms The second considers enzymes or microbial cells as sensors to detect microbial activity and stresses due to pollution management or climatic change in both aquatic and terrestrial ecosystems

Proteins Gary Walsh, 2002 Protein Biotechnology and Biochemistry is a complete and definitive source of information for all those interested in the area providing a broad overview of the various medical diagnostic and industrial uses of proteins It covers basic biochemical principles as well as providing a comprehensive survey of products currently available or under development The new edition has been thoroughly updated with new material The key difference is that this new edition will include more pure biochemistry There are two completely new chapters Protein Structure an overview and Novel Proteins from Novel Sources Chapter 2 Protein Structure an overview and chapter 3 Protein Purification Characterisation make up approximately 30% of the book These chapters concentrate on the basic biochemical principles of proteins and will lay the foundations for the rest of the book The

remaining chapters focus on protein biotechnology and have been rearranged updated and expanded

Handbook of Proteolytic Enzymes Alan J. Barrett, Neil D. Rawlings, J. Fred Woessner, 2012-10-30 Extensively revised and updated the new edition of the highly regarded Handbook of Proteolytic Enzymes is an essential reference for biochemists biotechnologists and molecular biologists Edited by world renowned experts in the field this comprehensive work provides detailed information on all known proteolytic enzymes to date This two volume set unveils new developments on proteolytic enzymes which are being investigated in pharmaceutical research for such diseases as HIV Hepatitis C and the common cold Volume I covers aspartic and metallo peptidases while Volume II examines peptidases of cysteine serine threonine and unknown catalytic type A CD ROM accompanies the book containing fully searchable text specialised scissile bond searches 3 D color structures and much more The only comprehensive book on proteolytic enzymes Includes 671 chapters each written by experts in their field on proteolytic enzymes from all groups of living organisms and the viruses including those that are currently major targets of pharmaceutical research Accompanying CD ROM provides fully searchable text 2D structures of peptidases in color and links directly to PubMed and MEROPS databases Each chapter describes in detail the enzyme name its history activity and specificity structural chemistry preparation biological aspects and distinguishing features Over 1000 peptidases included

Enzymes from Extreme Environments Noha M. Mesbah, Felipe Sarmiento, 2016-08-05 Enzymes are nature's biocatalysts empowered with high catalytic power and remarkable substrate specificity Enzymes perform a wide range of functions throughout nature and guide the biochemistry of life with great precision The majority of enzymes perform under conditions considered normal for mesophilic neutrophilic terrestrial microorganisms However the Earth's biosphere contains several regions that are extreme in comparison such as hypersaline lakes and pools hydrothermal vents cold oceans dry deserts and areas exposed to intensive radiation These areas are inhabited by a large number of extremophilic microorganisms which produce enzymes capable of functioning in unusual conditions There is an increasing biotechnological and industrial demand for enzymes stable and functioning in harsh conditions and over the past decade screening for isolation and production of enzymes with unique and extreme properties has become one of the foremost areas of biotechnology research The development of advanced molecular biology tools has facilitated the quest for production of enzymes with optimized and extreme features These tools include large scale screening for potential genes using metagenomics engineering of enzymes using computational techniques and site directed mutagenesis and molecular evolution techniques The goal of this Research Topic is to present reports on latest advances in enzymes from all types of extreme environments Contributions dealing with isolation of enzymes from extremophilic microorganisms or directly from natural environments screening for and expression of enzymes with extreme properties using metagenomic approaches are welcome In addition contributions dealing with all forms of biocatalyst production and improvement are welcome such as fermentation technology protein engineering directed evolution rational design and immobilization techniques *Advanced*

Techniques for Studying Microorganisms in Extreme Environments Étienne Yergeau, 2019-10-21 This book will highlight advanced techniques that were recently used for studying microorganisms in extreme environments Recent technological leaps in the study of microorganisms in the environment now make it possible to comprehensively study microbes in the environment Extreme environments could benefit from the application of these techniques but many challenges such as low biomass low activity and slow growth has prevented their wide adoption This book will review recent application of state of the art techniques in extreme environments helping researcher and graduate students get a better knowledge of the tools available

Molecular Biology and Biotechnology Robert Allen Meyers, 1995-06-29 This is one volume library of information on molecular biology molecular medicine and the theory and techniques for understanding modifying manipulating expressing and synthesizing biological molecules conformations and aggregates The purpose is to assist the expanding number of scientists entering molecular biology research and biotechnology applications from diverse backgrounds including biology and medicine as well as physics chemistry mathematics and engineering

Hyperthermophilic Enzymes, Part A, 2001-02-08 The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences This volume and its companions Volumes 31 and 334 cover all current knowledge concerning hyperthermophilic enzymes Major topics in this volume include enzyme discovery saccharolytic enzymes and proteolytic enzymes

Thermophilic Microbes in Environmental and Industrial Biotechnology Tulasi Satyanarayana, Jennifer Littlechild, Yutaka Kawarabayasi, 2013-03-25 The existence of life at high temperatures is quiet fascinating At elevated temperatures only microorganisms are capable of growth and survival Many thermophilic microbial genera have been isolated from man made washing machines factory effluents waste streams and acid mine effluents and natural volcanic areas geothermal areas terrestrial hot springs submarine hydrothermal vents geothermally heated oil reserves and oil wells sun heated litter and soils sediments thermal habitats throughout the world Both culture dependent and culture independent approaches have been employed for understanding the diversity of microbes in hot environments Interest in their diversity ecology and physiology has increased enormously during the past few decades as indicated by the deliberations in international conferences on extremophiles and thermophiles held every alternate year and papers published in journals such as *Extremophiles* Thermophilic moulds and bacteria have been extensively studied in plant biomass bioconversion processes as sources of industrial enzymes and as gene donors In the development of third generation biofuels such as bioethanol thermophilic fungal and bacterial enzymes are of particular interest The book is aimed at bringing together scattered up to date information on various aspects of thermophiles such as the diversity of thermophiles and viruses of thermophiles their

potential roles in pollution control and bioremediation and composting

Biotechnology of Microbial Enzymes Goutam Brahmachari, 2023-01-20 *Biotechnology of Microbial Enzymes Production Biocatalysis and Industrial Applications* Second Edition provides a complete survey of the latest innovations on microbial enzymes highlighting biotechnological advances in their production and purification along with information on successful applications as biocatalysts in several chemical and industrial processes under mild and green conditions The application of recombinant DNA technology within industrial fermentation and the production of enzymes over the last three decades have produced a host of useful chemical and biochemical substances The power of these technologies results in novel transformations better enzymes a wide variety of applications and the unprecedented development of biocatalysts through the ongoing integration of molecular biology methodology all of which is covered insightfully and in depth within the book This fully revised second edition is updated to address the latest research developments and applications in the field from microbial enzymes recently applied in drug discovery to penicillin biosynthetic enzymes and penicillin acylase xylose reductase and microbial enzymes used in antitubercular drug design Across the chapters the use of microbial enzymes in sustainable development and production processes is fully considered with recent successes and ongoing challenges highlighted Explores advances in microbial enzymes from basic science through application in multiple industry sectors Includes up to date discussions of metabolic pathway engineering metagenomic screening microbial genomes extremophiles rational design directed evolution and more Provides a holistic approach to the research of microbial enzymes and their use in sustainable processes and innovation Features all new chapters discussing microbial enzyme classes of growing interest as well as enzymes recently applied in drug discovery and other applications

Microbial Extremozymes Mohammed Kuddus, 2021-08-20 *Microbial Extremozymes Novel Sources and Industrial Applications* is a unique resource of practical research information on the latest novel sources and technologies regarding extremozymes in bioremediation waste management valorization of industrial by products biotransformation of natural polymers nutrition food safety and diagnosis of disease The book's broad knowledge and varying applications are useful to the food industry dairy industry fruit and vegetable processing and baking and beverages industries as well as the pharmaceutical and biomedical industries This is a concise all encompassing resource for a range of scientists needing knowledge of extremozymes to enhance and research Furthermore it provides an updated knowledge of microbial enzymes isolated from extreme environments temperatures etc and their biotechnological applications It will be useful to researchers scientists and students in enzyme research In addition users from the dairy and baking industries will benefit from the presented content Explores recent scientific research on extremophiles and extremozymes technologies that help innovate novel ideas Provides innovative technologies for enzyme production from extremophilic microbes Includes cutting edge research for applications in various industries where extreme temperature conditions exist Presents novel microorganisms and their enzymes from extreme environments Thermophilic Psychrophilic

Acidophilic Alkaliphilic Anaerobic Halophilic Barophilic Metallotolerant Radioresistant etc Biotechnology of Bioactive Compounds Vijai Kumar Gupta, Maria G. Tuohy, Anthonia O'Donovan, Mohtashim Lohani, 2015-04-20 Bioactive compounds play a central role in high value product development in the chemical industry Bioactive compounds have been identified from diverse sources and their therapeutic benefits nutritional value and protective effects in human and animal healthcare have underpinned their application as pharmaceuticals and functional food ingredients The orderly study of biologically active products and the exploration of potential biological activities of these secondary metabolites including their clinical applications standardization quality control mode of action and potential biomolecular interactions has emerged as one of the most exciting developments in modern natural medicine Biotechnology of Bioactive Compounds describes the current stage of knowledge on the production of bioactive compounds from microbial algal and vegetable sources In addition the molecular approach for screening bioactive compounds is also discussed as well as examples of applications of these compounds on human health The first half of the book comprises information on diverse sources of bioactive compounds ranging from microorganisms and algae to plants and dietary foods The second half of the book reviews synthetic approaches as well as selected bioactivities and biotechnological and biomedical potential The bioactive compounds profiled include compounds such as C phycocyanins glycosides phytosterols and natural steroids An overview of the usage of bioactive compounds as antioxidants and anti inflammatory agents anti allergic compounds and in stem cell research is also presented along with an overview of the medicinal applications of plant derived compounds Biotechnology of Bioactive Compounds will be an informative text for undergraduate and graduate students of bio medicinal chemistry who are keen to explore the potential of bioactive natural products It also provides useful information for scientists working in various research fields where natural products have a primary role *Thermophiles* Juergen Wiegel, Adams W.W. Michael, 1998-08-27 Late 1990s developments in the study of thermophiles have had considerable significance on theories of evolution These micro organisms are able to thrive at temperatures near or even above 100 degrees Celsius and scientists have begun to study their biology in an attempt to provide clues about the beginnings of life on our planet Researchers *Archaea* Haitham Sghaier, Afef Najjari, Kaïs Ghedira, 2017-10-11 Besides the Introductory Chapter that gives a brief overview of archaeal applications the present book contains four chapters The first chapter by Castro Fernandez et al provides an interesting depiction of the phylum Euryarchaeota and its biotechnological applications The second chapter by Ben Hania and coauthors focuses on the promotion of the idea that some specific Archaea are potential next generation probiotics The third chapter by Torregrosa Crespo et al emphasizes the main characteristics of biocompounds from haloarchaea and their potential uses in biomedicine pharmacy and industry The concluding chapter by Mizuno et al proposes a plasmid curing approach for improving the potential of thermophiles in various biotechnological applications and opens new perspectives on industrial valorization

Biomass, Biofuels, Biochemicals Ram Sarup Singh, Reeta Rani Singhanian, Ashok Pandey, Christian

Larroche,2019-02-06 Biomass Biofuels and Biochemicals Advances in Enzyme Technology provides state of the art information on the fundamental aspects and current perspectives in enzyme technology to graduate students postgraduates and researchers working in industry and academia The book provides information about the use of enzyme technology as an important tool for biotechnological processes including food feed fuels textiles paper energy and environmental applications The search for improvements in existing enzyme catalyzed processes dictates the need to update information on various enzyme technologies The book gives a snapshot of current practice and research in the area of enzyme technology

Enzymes and Their Biotechnological Applications Pabulo H. Rampelotto,2018-10-02 This book is a printed edition of the Special Issue Enzymes and Their Biotechnological Applications that was published in Biomolecules **Stability and Stabilization of Enzymes** W.J.J. van den Tweel,A. Harder,R.M. Buitelaar,2013-10-22 These proceedings contain most of the oral presentations and posters of the international symposium on Stability and Stabilization of Enzymes held in Maastricht in November 1992 They provide a comprehensive overview of the state of the art in this field The possible applications of enzymes are enormous Years of development have seen many enzymes brought onto the market but they are still expensive to use Therefore their efficient application is a prerequisite for common usage One of the main factors for this efficiency is the stability of the enzymes The topics thus ranged from the extensive fundamental thermodynamic knowledge gathered in academic research to the practical applied knowledge built up in industry during the time that enzymes have been produced commercially The subject Stability and Stabilization of Enzymes was discussed from various points of view as was reflected in the themes of the symposium sessions In the session on Fundamentals of Enzyme Stabilisation the thermodynamic background of the phenomenon was highlighted In yet another session the recently developed analytical tools to measure enzyme stability and stabilisation were discussed Further sessions comprised the physical chemical and biological ways to obtain enzyme stabilisation and finally the industrial practice of enzyme stabilisation was treated by representatives of the world s most important enzyme producers The book will be of interest to researchers in universities and industry in the fields of biochemistry enzymology and biotechnology **Interactions Between Small Molecule Ligands and Target Enzymes**

Sung-Kun (Sean) Kim,Dong-Woo Lee,Ki Duk Park,2021-04-13 **Extremozymes and their Industrial Applications** Naveen Kumar Arora,Shekhar Agnihotri,Jitendra Mishra,2022-06-15 Extremophiles belong to members of all three domains of life i e bacteria archaea and eukarya However a high proportion of extremophiles are archaea and bacteria These microbes live under chemical and physical extremes that are usually lethal to cellular molecules yet they not only manage to survive but even thrive in such conditions Extremophiles have important practical and industrial uses They are a valuable source of industrially important enzymes also known as extremozymes Recent research has revealed that extremozymes have unique structural features essential for biocatalysis under extreme conditions Extremozymes have great commercial values and are known for their potential use in biotechnology biomining and bioremediation Extremozymes and their Industrial

Applications highlights the current and topical areas of research in this rapidly growing field of extremophiles and their applications. Expert researchers from around the globe are trying to uncover the underlying mechanisms responsible for their specific adaptations under extreme environments. The topics covered include the ability of acidophiles to maintain a neutral intracellular pH, the way psychrophiles loosen up their proteins at low temperatures and other equally ingenious adaptations and metabolic strategies that extremophiles use to survive and flourish under extreme conditions. Extremozymes and their Industrial Applications also covers the established biotechnological uses of extremophiles and the most recent and novel applications including their exploitation for enzyme production. Potential use of extremophiles and their enzymes in the generation of sustainable energy, biomass conversion, agro waste processing and biocontrol of phytopathogens is also covered. The book will be very useful for researchers and students working in the area of industrial microbiology and biotechnology and microbial ecologists. It is also recommended reference text for those interested in the biochemistry and microbiology of extremophiles as well as for those interested in bioprospecting, biomining, biofuels and biodegradation. Presents information exclusively based on extremozymes and their application in industries. Chapters have been collected from various experts and deals with contemporary issues related to extremozymes and their usability in various industries. Enriched with suitable illustrations that assist in increasing readership and broaden the reach of the book amongst scholars and academicians.

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