

# Xylanolytic Enzymes

Pratima Bajpai



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**Yong-Eok Lee**



### **Xylanolytic Enzymes Pratima Bajpai:**

*Xylanolytic Enzymes* Pratima Bajpai, 2014-02-03 *Xylanolytic Enzymes* describes the enzyme structure and its interaction with plant cell walls the properties and production of different enzymes and their application and the knowledge gathered on the hydrolysis mechanism of hemicellulose The knowledge gathered about the hydrolysis mechanism of the hemicelluloses especially xylans has greatly promoted the rapid application of these enzymes in new areas Recently there has been much industrial interest in xylan and its hydrolytic enzymatic complex as a supplement and for the manufacturing of food drinks textiles pulps and paper and ethanol and in xylitol production as a fermentation substrate for the production of enzymes This book describes xylan as a major component of plant hemicelluloses Presents a thorough overview of all aspects of xylanolytic enzymes Gives up to date authoritative information and cites pertinent research Includes studies on xylanase regulation and synergistic action between multiple forms of xylanase

**Microbial Xylanolytic Enzymes** Pratima Bajpai, 2022-05-29 *Microbial Xylanolytic Enzymes* describes the enzyme structure and its interaction with plant cell walls the properties and production of different enzymes and their applications and the knowledge gathered on the hydrolysis mechanism of hemicellulose The knowledge gathered about the hydrolysis mechanism of the hemicelluloses especially xylans has greatly promoted the rapid application of these enzymes in new areas In recent years there has been a spurt of interest in xylan degrading enzymes due to their applications in several industrial processes including paper and pulp industries food and feed industries biofuel industry textile industry chemical and pharmaceutical industry brewing industry and more Xylan is the principal type of hemicellulose An enzymatic complex is responsible for the hydrolysis of xylan but the main enzymes involved are enzymes produced by fungi bacteria yeast algae protozoans and more Gives up to date authoritative information and cites pertinent research on the synergistic action of xylanolytic enzymes Includes studies on xylanase regulation and synergistic action between multiple forms of xylanase Covers in great depth all aspects of Xylanolytic enzymes Includes detailed descriptions on Xylanolytic enzymes as a supplement in animal feed for the manufacture of bread food and drinks textile industry pulp and paper industry biofuel industry and production of pharmaceuticals and important chemicals and waste management etc Challenges future trends in the commercial production and application of xylanases

**Biotechnology for Pulp and Paper Processing** Pratima Bajpai, 2018-02-14 The book provides the most up to date information available on various biotechnological processes useful in the pulp and paper industry The first edition was published in 2011 covering a specific biotechnological process or technique discussing the advantages limitations and prospects of the most important and popular processes used in the industry Many new developments have taken place in the last five years warranting a second edition on this topic The new edition contains about 35% new material covering topics in Laccase application in fibreboard biotechnology in forestry pectinases in papermaking stickies control with pectinase products from hemicelluloses value added products from biorefinery lignin use of enzymes in mechanical pulping

## **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 100C 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

**Advances in Applied Microbiology** ,1997-05-01 Discusses various advances in applied microbiology including production of acetic acid by Clostridium thermoaceticum marine microorganisms as a source of new natural products and stereoselective biotransformations for synthesis of some pharmaceutical intermediates Advances in Applied Microbiology Allen I. Laskin,Geoffrey M. Gadd,2001-10-15 Advances in Applied Microbiology offers intensive reviews of the latest techniques and discoveries in this rapidly moving field The editors are recognized experts and the format is comprehensive and instructive PRAISE FOR THE SERIES No laboratory scientist field worker or technical administrator can afford to pass it up ASM NEWS The topics are well supported by an extensive bibliography and provide a rich source of current information BIOPHARM Lignocellulosic Biomass in Biotechnology

Pratima Bajpai,2021-07-13 Lignocellulosic Biomass in Biotechnology highlights significant aspects of lignocellulose biotechnology demonstrating its potential value from an application perspective Sections cover the physico chemical characteristics of lignocellulosic biomass the physical and structural properties of hemicelluloses celluloses and lignin sources of lignocellulosic biomass microorganisms and their lignocellulytic enzymes enzymatic degradation of lignocellulosic biomass regulation of cell wall degrading enzymes barriers to lignocellulose biodegradation biotechnological importance of lignocellulosic biomass lignocellulosic pretreatment techniques bioprocessing of lignocellulosic biomass lignocellulosic biomass pretreatment methods valuable chemicals and products techno economic evaluation and future perspectives This book answers questions surrounding the biotechnology of lignocelluloses It is ideal for both students and professionals in the industry supply chain It also provides a reference for researchers and administrators engaged in the utilization and industrial development of agricultural resources Presents recent advances in the processing of lignocellulosic biomass Highlights

significant aspects of lignocelluloses biotechnology with an emphasis on its potential value from an application perspective Looks at the cost of enzymes and the potential of modern approaches that could be employed to reduce the cost Summarizes the new achievements that have emerged in the biotechnology of lignocelluloses in recent years Discusses a wide range of topics related to the fundamental and applied aspects of lignocellulose utilization processing and biotechnological applications

**Microbial Bioprocessing of Agri-food Wastes** Gustavo Molina,Zeba Usmani,Minaxi Sharma,Rachid Benhida,Ramesh Chander Kuhad,Vijai Kumar Gupta,2023-04-28 Enzymes are biological molecules of great relevance In addition to the fundamental role in metabolic reactions they have diverse applications in industrial processes in generating products of great commercial utility for the most diverse areas Thus industries seek to expand research to select microorganisms capable of producing enzymes according to their commercial objectives Considering the diversity of the microbiota kingdom as well as the diversity of mode of action of different classes of enzymes this is an area that deserves constant investments to elucidate new applications considering that these biological catalysts have great selectivity and a diversity of mode of action reusable and operate under mild process conditions becoming the bridge for the development of sustainable processes and for adding value to commercial products This book is intended for bioengineers biologists biochemists biotechnologists microbiologists food technologists enzymologists and related professionals researchers Explores recent advances in the valorization of agri food waste into enzymes Explores the main technological advances in the recovery of residues and their use for the production of enzymes Provides technical concepts on the production of various enzymes of commercial interest Presents the main classes of enzymes obtained from alternative raw materials

Advances in Applied Microbiology Paul Blum,2001-10-08 Although they comprise one of the three fundamental branches of life it was only the last decade that Archaea were formally recognized as a group alongside Eukaryotes and Bacteria Bacteria like in that they are single celled organisms that lack a nucleus and intracellular organelles the Archaea also share a large gene set typical of eukaryotes for making and repairing DNA RNA and protein More surprisingly they only inhabit environments typical of the extremes of early earth hot springs thermal ocean vents saline lake or oxygen deficient sediments A breakpoint on the common evolutionary path it is evident that the Archaea diverged early in the history of life establishing their importance in evolutionary sciences Archaea Ancient Microbes Extreme Environments and the Origin of Life tells this evolving story furthering our understanding of the microbe commonalities and providing for evolutionary justification in the use of archaea as mechanistic model systems Series Advances in Applied Microbiology published by Academic Press since 1959 has been and continues to be one of the most widely read and authoritative review sources in microbiology Traditionally each volume has contained an eclectic mix of review articles on topics of current interest With Archaea Ancient Microbes Extreme Environments and the Origin of Life Advances in Applied Microbiology will enhance this tradition by also including thematic volumes edited by a Guest Editor each of which will cover an important area of microbiology in depth Archaea Ancient

Microbes Extreme Environments and the Origin of Life is the first thematic volume for *Advances in Applied Microbiology*. It covers archaeal evolution, furthering our understanding of the archaeal eukaryotic commonalities and providing for evolutionary justification in the use of archaea as model systems in addressing mechanistic questions about eukaryotes. Key Features: Provides a unique and current summary of common subcellular mechanisms in archaea and eukaryotes; Emphasizes the use of genomics to provide a biological context for understanding archaea; Contrasts evolutionary studies on the fossil record with those on molecular phylogeny; Includes extensive tables, graphs, images, drawings, and other illustrations; Simplifies the interdisciplinary challenge necessary to understand the significance of archaea. Audience: Archaea, Ancient Microbes, Extreme Environments, and the Origin of Life. This book should attract the attention of cell biologists, geneticists, microbiologists, molecular biologists, bacteriologists, as well as advanced students and researchers in evolutionary studies. About the Author: Paul Blum, PhD, is currently an Associate Professor in the School of Biological Sciences at the University of Nebraska. He conducts research on the molecular genetics, genomics, and ecology of hyperthermophilic archaea with the support of the National Science Foundation. He obtained his doctoral degree in microbiology from the University of California, Davis, with postdoctoral training at the University of California, Berkeley, and Stanford Medical School. He is currently on the editorial board of several journals and has authored over 30 research publications and review articles. He is the past recipient of an award from the National Institutes of Environmental Health Sciences, as well as past and current recipient of research project awards from the Department of Energy, Water Environment Research Foundation, and the National Science Foundation. During his spare time, Dr. Blum can be found conducting surveys of the biota in geothermal pools across the continental United States.

*Advances in Applied Microbiology* Geoffrey M. Gadd, Sima Sariaslani, 2012-06. 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 2010: 3.913. Contributions from leading authorities. Informs and updates on all the latest developments in the field.

*Microorganisms and enzymes for lignocellulosic biorefineries* Pratima Bajpai, 2024-01-10. *Enzymes and Microorganisms for Lignocellulosic Biorefinery* comprehensively deals with the enzymes and microorganisms for lignocellulosic degradation challenges in the engineering of lignocellulolytic enzymes and mining and engineering for better enzymes. The book discusses commonly used bioprocesses for lignocellulosic biorefinery, including separated hydrolysis and fermentation, simultaneous saccharification and fermentation, and consolidated bioprocessing. Among these methods, construction of microbial co-culturing systems via consolidated bioprocessing is regarded as a potential strategy to efficiently produce biochemicals and biofuels, providing

theoretical direction for constructing efficient and stable biorefinery process system in the future The book discusses construction of high performance enzyme cocktails and presents progress witnessed in engineering lignocellulolytic enzymes and enzyme producing microorganisms and future perspectives in the context of developing cost effective lignocellulose conversion processes Presents drivers for biorefinery industry development Discusses global drivers toward the advancement of lignocellulosic biorefineries along with technical and operational challenges for industrialization to overcome said challenges Discusses the biorefinery value chain and its economical and technical considerations Provides SWOT analysis and future directions

*Biotechnology in the Chemical Industry* Pratima Bajpai, 2019-11-08 Biotechnology in the Chemical Industry Towards a Green and Sustainable Future focuses on achievements and prospects for biotechnology in sustainable production of goods and services especially those that are derived at present mostly from the traditional chemical industry It considers the future impact of industrial biotechnology and lays out the major research areas which must be addressed to move from a flourishing set of scientific disciplines to a major contributor to a successful future knowledge based economy The book focuses on the research needed to underpin three broad topics biomass bio processes and bio products including bio energy Readers including advanced students researchers industry professionals academics analysts consultants and anyone else interested or involved in biotechnology will find this book very informative Offers a comprehensive introduction to the subject for researchers interested in the biotechnological applications in chemical industry Provides a state of the art update on the field Presents the economic and ecological advantages of industrial biotechnology Discusses efforts made by developing countries towards industrial biotechnology Describes new biotechnological applications Includes the major challenges facing industrial biotechnology

Cellulases in the Biofuel Industry Pratima Bajpai, 2022-10-08 Cellulases in the Biofuel Industry discusses how the properties of cellulases affects the quality of the biofuels produced Heralded as the solution to humanity s energy problem and the savior of the world s climate extensive research is being carried out on biofuels but there are still gaps in our understanding This book presents cost effective and current scenarios for cellulase production in the biofuel industry including the most recent advancements for obtaining cellulases with higher activity on pre treated biomass substrates by screening and sequencing new organisms engineering cellulases with improved properties and by identifying proteins that can stimulate cellulases The mechanism and efficiency of the cellulase enzyme system on cellulose is discussed with the specific classification of each cellulase enzyme as well as explanations of the limitation of cellulases in terms of their production processes efficiency and practical applications to biofuels Various approaches to improve the production and efficiency of the cellulase enzyme system are evaluated along with the current limitations that are hampering cost effective production of cellulase and guidance on how these limitations might be resolved Includes different approaches to improve the production and efficiency of the cellulase enzyme system Discusses the current limitations hampering the cost effective production of cellulases Provides case studies that include essential information for

those looking to adapt cellulases technology      **Appita Journal** ,2001      **Native and Cloned Xylanolytic Enzymes from the Hyperthermophilic Eubacterium, Thermotoga Neapolitana** Steven K. Goers,1993      *Regulation and Characterization of Xylanolytic Enzymes of Thermoanaerobacterium Saccharolyticum B6A-RI* Yong-Eok Lee,1993  
    *Production and characterization of the xylanolytic enzyme system of the extreme thermophilic bacteria belonging to the genus Thermotoga* Anwar Sunna,1995      **Production and Characterization of Extremely Thermostable Xylanolytic and Amylolytic Enzymes from the Hyperthermophilic Archaeon Pyrodictium Abyssii** Carolina Andrade,1996

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