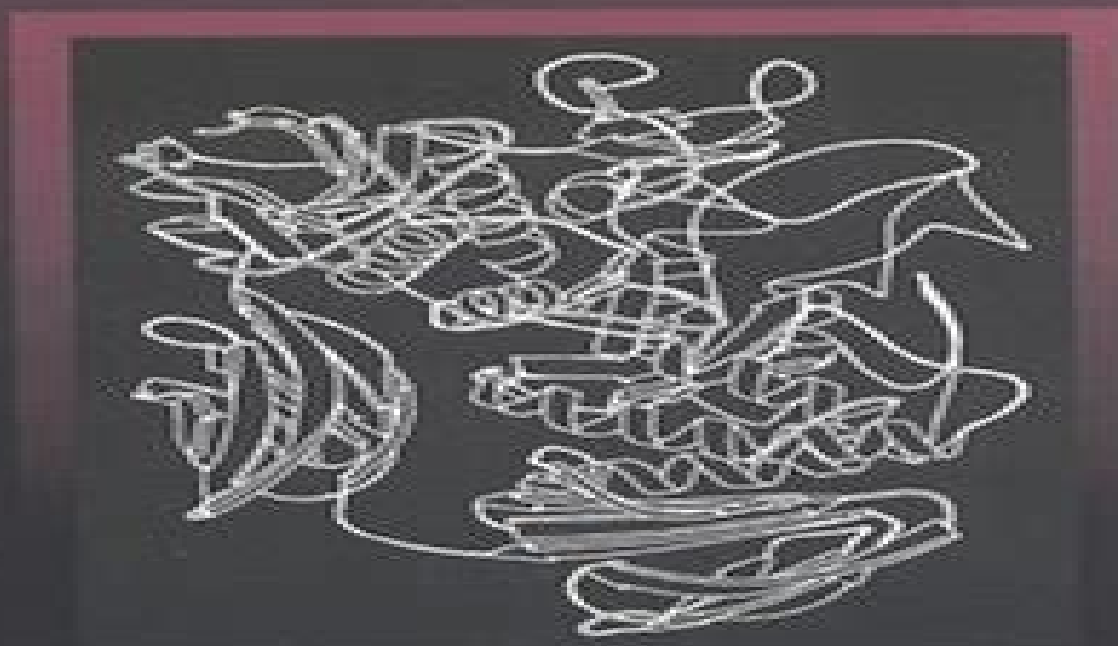

ENZYME CHEMISTRY and MOLECULAR BIOLOGY of AMYLASES and RELATED ENZYMES



Edited by
The Amylase Research Society of Japan

Enzyme Chemistry And Molecular Biology Of Amylases And Related Enzymes

Thomas M. Schmidt



Enzyme Chemistry And Molecular Biology Of Amylases And Related Enzymes:

Enzyme Chemistry and Molecular Biology of Amylases and Related Enzymes Takehiko Yamamoto,1994-11-14

Handbook of Industrial Biocatalysis Ching T. Hou,2005-06-09 Until now no comprehensive handbook on industrial biocatalysis has been available Soliciting chapters on virtually every aspect of biocatalysis from international experts most actively researching the field the Handbook of Industrial Biocatalysis fills this need The handbook is divided into three sections based on types of substrates T *Microbial Fermentation and Enzyme Technology* Hrudayanath Thatoi,Pradeep K. Das Mohapatra,Sonali Mohapatra,Keshab C. Mondal,2020-04-29 The discovery of enzymes as biocatalysts has led to various biotechnological developments The capability of enzymes to catalyse various chemical reactions both in vivo and in vitro has led them to applications in various industries such as food feed pharmaceutical diagnostics detergent textile paper leather and fine chemical industries Microbial Fermentation and Enzyme Technology mainly focuses on production and application of enzymes in various industries Further it also discusses recent developments in enzyme engineering particularly those involved in creating and improving product formations through enzyme and fermentation technology Salient features Includes current research and developments in the area of microbial aspects in different fields like food chemicals pharmaceutical bioprocess etc Discusses various enzymes that are used in refinement of environmental pollutions and its application in different industrial sectors Focuses on production and application of enzymes in various industries Highlights recent developments in enzyme engineering with respect to its application in textile pharmaceutical nanobiotechnology bioremediation and many other related fields Carbohydrate Bioengineering S.B. Petersen,B. Svensson,S. Pedersen,1995-12-08 The Carbohydrate Bioengineering Meeting held in Elsinore Denmark April 23 26 1995 gathered 230 scientists mostly from Europe with interest in carbohydrate analysis and structure carbohydrates in medicine and glycopathology structure function application and protein engineering of carbohydrate active enzymes oligo and polysaccharides of industrial interest and production of carbohydrate containing new materials The first chapters address glycoconjugates as modulatory and recognition molecules structure determination using NMR and mass spectrometry and microdialysis chip enzyme based sensors Active site mutations coupled with crystal structures and synthetic substrate analogue interactions as well as new three dimensional structures and binding domains for biotechnological applications are included in the chapters Carbohydrate active enzymes turned out to be a predominant topic The rapid development in glycobiology and glycotecnology has resulted in an enormous increase in our knowledge on the structure conversion and application of carbohydrates in industry and medicine **Encyclopedia of Microbiology** ,2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles

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Encyclopedia of Microbiology Thomas M. Schmidt, 2019-09-11 Encyclopedia of Microbiology Fourth Edition Five Volume Set gathers both basic and applied dimensions in this dynamic field that includes virtually all environments on Earth This range attracts a growing number of cross disciplinary studies which the encyclopedia makes available to readers from diverse educational backgrounds The new edition builds on the solid foundation established in earlier versions adding new material that reflects recent advances in the field New focus areas include Animal and Plant Microbiomes and Global Impact of Microbes The thematic organization of the work allows users to focus on specific areas e g for didactical purposes while also browsing for topics in different areas Offers an up to date and authoritative resource that covers the entire field of microbiology from basic principles to applied technologies Provides an organic overview that is useful to academic teachers and scientists from different backgrounds Includes chapters that are enriched with figures and graphs and that can be easily consulted in isolation to find fundamental definitions and concepts

Fennema's Food Chemistry Srinivasan Damodaran, Kirk L. Parkin, Owen R. Fennema, 2007-09-18 This latest edition of the most internationally respected reference in food chemistry for more than 30 years Fennema's Food Chemistry once again meets and surpasses the standards of quality comprehensive information set by its predecessors This edition introduces new editors and contributors who are recognized experts in their fields All chapters reflect recent scientific advances and where appropriate have expanded and evolved their focus to provide readers with the current state of the science of chemistry for the food industry The fourth edition presents an entirely new chapter Impact of Biotechnology on Food Supply and Quality which examines the latest research in biotechnology and molecular interactions Two former chapters receive extensive attention in the new edition including Physical and Chemical Interactions of Components in Food Systems formerly Summary Integrative Concepts and Bioactive Substances Nutraceuticals and Toxicants formerly Toxic Substances which highlights bioactive agents and their role in human health and represents the feverish study of the connection between food and health undertaken over the last decade It discusses bioactive substances from both a regulatory and health standpoint Retaining the straightforward organization and detailed accessible style of the original this edition begins with an examination of major food components such as water carbohydrates lipids proteins and enzymes The second section looks at minor food components including vitamins and minerals colorants flavor and additives The final section considers food systems by reviewing basic considerations as well as specific information on the characteristics of milk and the postmortem physiology of edible muscle and postharvest physiology of plant tissues Useful appendices provide keys to the international system of

units conversion factors log P values calculation and the Greek alphabet **Glycoenzyme** Masatake Ōnishi, 2000-02

Handbook of Carbohydrate-Modifying Biocatalysts Peter Grunwald, 2016-11-25 This book provides an actual overview of the structure function and application of carbohydrate modifying biocatalysts Carbohydrates have been disregarded for a long time by the scientific community mainly due to their complex structure Meanwhile the situation changed with increasing knowledge about the key role carbohydrates play in biological processes such as recognition signal transduction immune responses and others An outcome of research activities in glycoscience is the development of several new pharmaceuticals against serious diseases such as malaria cancer and various storage diseases Furthermore the employment of carbohydrate modifying biocatalysts enzymes as well as microorganisms will contribute significantly to the development of environmentally friendly processes boosting a shift of the chemical industry from petroleum to bio based production of chemicals from renewable resources The updated content of the second edition of this book has been extended by discussing the current state of the art of using recombinantly expressed carbohydrate modifying biocatalysts and the synthesis of minicellulosomes in connection with consolidated bioprocessing of lignocellulosic material Furthermore a synthetic biology approach for using DAHP dependent aldolases to catalyze asymmetric aldol reactions is presented *Cyclic Polymers* E.R. Semlyen, 2007-05-08

Cyclic Polymers Second Edition reviews the many recent advances in this rapidly expanding subject since the publication of the first edition in 1986 The preparation characterisation properties and applications of a wide range of organic and inorganic cyclic oligomers and polymers are described in detail together with many examples of catenanes and rotaxanes The importance of large cyclics in biological chemistry and molecular biology is emphasised by a wide coverage of circular DNA cyclic peptides and cyclic oligosaccharides and polysaccharides Experimental techniques and theoretical aspects of cyclic polymers are included as well as examples of their uses such as ring opening polymerisation reactions to give commercially important materials This book covers a wide range of topics which should be of interest to many scientific research workers for example in polymer science chemistry and molecular biology as well as providing a reference text for undergraduate and graduate students **Exploring Indonesian : MICROBAL GENETIC RESOURCES** Endang Sukara & Puspita

Lisdiyanti, 2016-12-10 *Exploring Indonesian MICROBAL GENETIC RESOURCES* As a scientific publisher LIPI Press holds on high responsibility to provide high quality scientific publication The provision of qualified publication is the epitome of our works to participate in enlightening society intelligence and awareness as stated in The 1945 Constitution of the Republic of Indonesia The edited book *Exploring Indonesian Microbial Genetic Resources for Industrial Application* offers some important findings on the exploration and utilization on the microbial genetic resources in Indonesia Through this book some intensive exploration on microbial genetic resources in Indonesia many new species and even new genus of important microbial taxa have continuously been discovered This book serves to highlight the significant achievements especially in the area of microbiology carried out by the microbiologists in Indonesian Institute of Sciences LIPI We surely hope this book

could give new insights and information especially on diversity of the microbial genetic resources in Indonesia and its potential utilization. As a final note we would like to deliver our heartfelt gratitude to everyone taking part in the process of this book.

Starch in Food A-C Eliasson, 2004-08-01 Starch is both a major component of plant foods and an important ingredient for the food industry. Starch in food reviews starch structure and functionality and the growing range of starch ingredients used to improve the nutritional and sensory quality of food. Part one illustrates how plant starch can be analysed and modified with chapters on plant starch synthesis, starch bioengineering and starch acting enzymes. Part two examines the sources of starch from wheat and potato to rice, corn and tropical supplies. The third part of the book looks at starch as an ingredient and how it is used in the food industry. There are chapters on modified starches and the stability of frozen foods, starch-lipid interactions and starch-based microencapsulation. Part four covers starch as a functional food, investigating the impact of starch on physical and mental performance, detecting nutritional starch fractions and analysing starch digestion. Starch in food is a standard reference book for those working in the food industry. Reviews starch structure and functionality. Extensive coverage of the growing range of starch ingredients. Examines how starch ingredients are used to improve the nutritional and sensory quality of food.

Carbohydrates in Food Ann-Charlotte Eliasson, 1996-01-02 This work offers comprehensive coverage of the chemical analysis, structure, functional properties and nutritional relevance of monosaccharides, disaccharides and polysaccharides used in food. It presents current information on the significance of carbohydrates in diet and furnishes both chemical and biochemical methods for carbohydrate analysis.

Glycoenzymes Masatake Ōnishi, 2000 In living organisms glyco materials, beta glycans, their oligosaccharides and glyco chains play a decisive role in such biological processes as signal transduction, cell adhesion, fertilization, transport and immunity. For industrial production glyco materials are inexhaustible and renewable resources. Beta glycans, for instance, are essential for the commercial production of food stuffs and other industrial products. The present volume focuses on the glyco enzymes which catalyze the reactions hydrolysis, transfer and condensation of glyco materials and are thus critical for their industrial utilization.

Starch: Basic Science to Biotechnology, 1998-08-10 This volume presents the physiological and biochemical aspects of storage carbohydrates or starch granules in plants. This up-to-date and thorough resource carefully integrates fundamental knowledge with the most recent information on the starch granule. It discusses the chemistry of the starch granule and the biochemistry, molecular biology, plant physiology and genetics of plant starch synthesis. The book also describes the implications of these studies for seed biotechnology and modified starch industries. Written for a broad readership, it emphasizes the recent findings on the properties of starch, biosynthetic enzymes and on studies describing their localization. Details the implications these studies have on the seed biotechnology and modified starch industries. Includes numerous references to the original literature. Introduces the reader to the most important individuals and discoveries in the field.

Enzymatic Transformation Soundar Divakar, 2012-12-18 Transformations using enzymes have been extensively

investigated in the last two decades and the results promise great potential for this growing field especially in the area of synthetic organic chemistry mainly due to its many advantages Accordingly this book has attempted to bring out the advantages of using enzymes involving complex underivatized and unprotected substrates in non polar media under homogenous and heterogeneous reaction conditions Merits and demerits of using enzymes in terms of yields and selectivity specificity are presented without any prejudice Almost all the reactions dealt with are from the author s laboratory comprising diverse substrates and the catalysis involves two important hydrolyzing enzymes extensively examined for the reverse reactions Thus esterification involving lipases and glycosylation involving glycosidases were investigated with respect to various strategies like optimization of reaction conditions response surface methodology and kinetics carrying out reactions under solvent non solvent and super critical carbon dioxide conditions In short the work presented is to ensure the comprehension of the problems faced by the researchers in this area so as to work out further efficient strategies for carrying out enzymatic transformations in the laboratory successfully with better yields and specificity

Carbohydrate-Modifying Biocatalysts Peter Grunwald, 2011-10-19 Carbohydrates have long been disregarded by the scientific community due to their complex structure and a lack of suitable experimental methods for structure determination This book provides an overview of the structure function and application of carbohydrate modifying biocatalysts It explores glycoconjugates and carbohydrate modifying enzymes

Enzyme Engineering XIII Jonathan S. Dordick, Alan J. Russell, 1996 This work looks at the interdisciplinary nature of the field of enzyme engineering which includes the use of enzymes in biotechnology synthetic chemistry pharmaceutical development and agriculture Both fundamental and applied topics are covered with each paper providing sufficient background to familiarise readers with the problems and their potential solutions that face those using enzymes for industrial applications

Extremophiles Handbook Koki Horikoshi, Garabed Antranikian, Alan T. Bull, Frank T. Robb, Karl O. Stetter, 2010-12-08 The Extremophiles Handbook brings together the rapidly growing and often scattered information on microbial life in the whole range of extreme environments This book will be a useful reference for finding clues to the origin of life and for exploring the biotechnology potential of these fascinating organisms

Encyclopedia of Biotechnology in Agriculture and Food Dennis R. Heldman, Dallas G. Hoover, 2010-07-21 The Encyclopedia of Biotechnology in Agriculture and Food provides users with unprecedented access to nearly 200 entries that cover the entire food system describing the concepts and processes that are used in the production of raw agricultural materials and food product manufacturing So that users can locate the information they need quickly without having to flip through pages and pages of content the encyclopedia avoids unnecessary complication by presenting information in short accessible overviews Addresses Environmental Issues Sustainability in the Context of 21st Century Challenges Edited by a respected team of biotechnology experts this unrivaled resource includes descriptions and interpretations of molecular biology research including topics on the science associated with the cloning of animals the

genetic modification of plants and the enhanced quality of foods It discusses current and future applications of molecular biology with contributions on disease resistance in animals drought resistant plants and improved health of consumers via nutritionally enhanced foods Uses Illustrations to Communicate Essential Concepts Visually Enhance the Text This one of a kind periodical examines regulation associated with biotechnology applications with specific attention to genetically modified organisms regulation differences in various countries and biotechnology s impact on the evolution of new applications The encyclopedia also looks at how biotechnology is covered in the media as well as the biotechnology environment interface and consumer acceptance of the products of biotechnology Rounding out its solid coverage the encyclopedia discusses the benefits and concerns about biotechnology in the context of risk assessment food security and genetic diversity ALSO AVAILABLE ONLINE This Taylor Francis encyclopedia is also available through online subscription offering a variety of extra benefits for both researchers students and librarians including Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options For more information visit Taylor Francis Online or contact us to inquire about subscription options and print online combination packages US Tel 1 888 318 2367 E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk Dennis R Heldman speaks about his work on the CRC Press YouTube Channel

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