



Immobilized Enzymes Preparation And Engineering

Recent Advances

CO Houle



Immobilized Enzymes Preparation And Engineering Recent Advances:

Immobilized Enzymes, Preparation and Engineering Jeanne Colbert Johnson, 1979 Recent Advances in Biocatalysis and Metabolic Engineering for Biomanufacturing Eun Yeol Lee, 2019-09-23 The use of biocatalysts including enzymes and metabolically engineered cells has attracted a great deal of attention in the chemical and bio industry because biocatalytic reactions can be conducted under environmentally benign conditions and in more sustainable ways The catalytic efficiency and chemo regio and stereo selectivity of enzymes can be enhanced and modulated using protein engineering Metabolic engineering seeks to enhance cellular biosynthetic productivity of target metabolites via controlling and redesigning metabolic pathways using multi omics analysis genome scale modeling metabolic flux control and reconstruction of novel pathways The aim of this book is to cover the recent advances in biocatalysis and metabolic engineering for biomanufacturing of biofuels chemicals biomaterials and pharmaceuticals Reviews and original research articles on the development of new strategies to improve the catalytic efficiency of enzymes biosynthetic capability of cell factories and their applications in production of various bioproducts and chemicals are included **Biotechnology** Robert D. Warmbrodt, 1991

Quick Bibliography Series, 1976 *Sorghum Biochemistry* CV Ratnavathi, Jagannath Vishnu Patil, UD Chavan, 2016-06-01 *Sorghum Biochemistry An Industrial Perspective* explores the many uses for sorghum in industry and biofuels Not only does it offer a detailed understanding of the physical and biochemical qualities of the grain it also takes an in depth look at the role sorghum plays in such industries as brewing and ethanol production and the mechanics of post harvest processing and value addition Sorghum has long been an important staple in Africa and Asia but its value goes far beyond its uses in human and animal consumption Sorghum is also used in many industries including waxes packing material wall board ethanol beverages and brewing and one variety called sweet sorghum has also been used as a bioenergy crop *Sorghum Biochemistry An Industrial Perspective* offers a closer look at how the grain is used in such a variety of ways and how we can continue to optimize its potential Provides detailed biochemical studies on grain sorghum to inform researchers grappling with similar issues Offers foundational information on the quality and composition of sorghum as a grain Covers a variety of uses for sorghum in many industries including food and beverage energy and brewing Includes photos and illustrations to enhance the understanding of processes and sorghum biochemistry *Recent advancements in microbe-pesticide interaction: A smart-soil bioremediation approach, 2nd edition* Pankaj Bhatt, Shaohua Chen, Cormac Murphy, 2024-06-19 The increasing use and the continuous development of pesticides are required to maintain sufficient global food production The pesticide residues and their biotic and abiotic breakdown products may be harmful to the environment and may leach into waterways thus it is crucial that the interactions of pesticides with microorganisms are deeply understood at all levels Pesticides reach the soil via direct and indirect routes The fate of the pesticides in the soil is affected by chemical physical and microbiological factors Microbial degradation of pesticides in soil is possible owing to the

diverse metabolic capabilities of the microorganisms present thus indigenous microbes act as biocatalysts for the remediation of the pesticides from the environment. The research topic will cover novel insights into microbial pesticide degradation with specific attention to the microbe pesticide interactions in soil. To date researchers have focused on the degradation of pesticides using indigenous microbes with different degradation rates. There is scant information about the degradation intermediates, metabolic pathways, enzymes, and complete set of factors involved in the microbes inhabiting the pesticides-contaminated soil. Therefore, this Research Topic aims to contribute to the understanding of the role of microbes in pesticide degradation in soil. Since pesticide exposure may result in stress responses in the microbial population of the soil, there is also a need to know about the impact of pesticides on the microbial cell structure, membrane transporters, cellular content, metabolic pathways, and gene expression. We are interested in reports of novel metabolic pathways, expression of the key genes in response to pesticide exposure, and the changes in microbial physiology caused by pesticide exposure. The removal of the pesticides from the soil requires smart microbial methods that can reduce the pesticides concentration in a short time. The development of the smart bioremediation methods includes the direct application of the potential screened microbial strains and their enzymes. The immobilized microbial strains and their enzymes can be used for the rapid removal of the toxic pesticides from the soil environment. In addition, engineering of the microbial consortia can be developed as the potential smart bioremediation tool. Papers on single isolates or microbial communities are welcome, as are reports of novel genes, enzymes, or metabolites that might be used as markers of soil contamination. We would especially welcome manuscripts describing the application and development of smart soil bioremediation approaches that could be beneficial for the treatment of large-scale contaminated agricultural and industrial soils. The research topic is of immediate interest to scientists and policy makers, and *Frontiers in Microbiology* is an ideal forum for a collection of novel, high-impact reports. The following themes are welcome, but not limited to: Novel advancements in the microbe-pesticide interactions to clean the pesticide-contaminated soil; High-throughput screening of the potential bacterial, fungi, and algae strains for the removal of pesticides from the contaminated soil; Smart soil bioremediation using indigenous microbial cultures and their purified enzymes; Microbial enzymes: a smart tool for bioremediation of the soil; Engineering of the microbial consortia for the complete pesticides removal and resource recovery.

Recent Advances in Ecobiological Research

Manoranjan P. Sinha, 1997. Contributed articles with reference to India commemoration volume for Prof. P. N. Mehrotra. *Nanomaterials for Biocatalysis*. Guillermo R. Castro, Ashok Kumar Nadda, Tuan Anh Nguyen, Xianghui Qi, Ghulam Yasin, 2021-10-12.

Nanomaterials for Biocatalysis explains the fundamental design concepts and emerging applications of nanoscale biocatalysts such as bioconversions, bioelectronics, biosensors, biocomputing, and therapeutic applications. Nano biocatalysts refer to the incorporation of enzymes into nanomaterials. These enzyme-enhanced nanocarriers have many advantages, including low mass transfer limitation, high enzyme capacity, better stabilization, and the formation of single enzyme nanoparticles. Smart

nanocontainers have been developed for the smart release of their embedded active substances These smart releases can be obtained by using smart coatings as their outer nanoshells In addition these nanocontainers could protect the enzymes from chemical or metabolic alterations on their delivering pathways towards the target This is an important reference source for materials scientists and chemical engineers who want to know more about how nanomaterials are being used for biocatalysis applications Explains the major fabrication techniques and applications of nanobiocatalysts Shows how nanobiocatalysts are used in a variety of environmental and biomedical sectors Assesses the major challenges associated with the widespread manufacture of nanobiocatalysts **Biocatalyst Immobilization** Maria Lujan Ferreira,2022-11-12 Biocatalyst

Immobilization Foundations and Applications provides a comprehensive overview of biocatalytic immobilization processes as well as methods for study characterization and application Early chapters discuss current progress in enzyme immobilization and methods for selecting and pretreating enzymes prior to immobilization with an emphasis on navigating common challenges and employing enzyme supports and post immobilization treatments to impact enzymatic activity Process based chapters instruct on measuring and reporting on enzyme immobilization efficiency protein final content quantification of reaction products and the use of nanomaterials to characterize immobilized enzymes Later chapters examine recent advances including novel enzymatic reactors multi enzymatic biocatalysts enzymatic biosensors whole cell immobilization the industrial application of immobilized enzymes and perspectives on future trends Provides a thorough overview of biocatalyst and enzyme immobilization for research and practical application Presents methods based content that instructs in enzyme immobilization pretreatment enzyme supports post immobilization treatments measuring enzyme immobilization efficiency quantification of reaction products and whole cell immobilization Features chapter contributions from international leaders in the field **Acta Chimica** ,1980 **Recent advances in Applied Microbiology** Pratyoo Shukla,2017-11-07 This

book is a one stop reference resource presenting recent research in various emerging areas of microbiology including microbial biotechnology microbes in health microbial interactions agricultural microbiology and computational approaches Recent discoveries in microbiology have created a great deal of interest among researchers around the globe and as such the book discusses a number of important research topics such as microbial enzymes and nanoparticles bacterial polyhydroxyalkanoates biosurfactant aided bioprocessing autophagy and microbial pathogenesis multidrug resistant bacteria probiotics rhizosphere metal tolerant bacteria plant beneficial environmental bacteria and therapeutic applications of fungal chondroitinase It serves as a valuable resource for masters doctoral and postdoctoral researchers in life sciences as well as scientists involved in various interdisciplinary research areas It also provides useful material for higher level graduate courses in microbiology and biotechnology *Nanoarmoring of Enzymes with Carbon Nanotubes and Magnetic Nanoparticles* ,2020-01-16 Nanoarchitectures Built with Carbon Nanotubes and Magnetic Nanoparticles Volume 630 the latest volume in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored

by leaders in the field New chapters in this volume include updates from well known established leaders Contains the authority of authors who are leaders in their field Provides a comprehensive source on new methods and research in enzymology **Selected Papers on Optical Fibers in Medicine** Abraham Katzir,1990 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

Biotechnology in Agriculture and Food Processing Parmjit S. Panesar,Satwinder S. Marwaha,2013-07-23 An instructive and comprehensive overview of the use of biotechnology in agriculture and food production Biotechnology in Agriculture and Food Processing Opportunities and Challenges discusses how biotechnology can improve the quality and productivity of agriculture and food products It includes current topics such as GM foods enzymes and prod **Advances in Food**

Biotechnology Ravishankar Rai V,2015-10-12 The application of biotechnology in the food sciences has led to an increase in food production and enhanced the quality and safety of food Food biotechnology is a dynamic field and the continual progress and advances have not only dealt effectively with issues related to food security but also augmented the nutritional and health aspects of food Advances in Food Biotechnology provides an overview of the latest development in food biotechnology as it relates to safety quality and security The seven sections of the book are multidisciplinary and cover the following topics GMOs and food security issues Applications of enzymes in food processing Fermentation technology Functional food and nutraceuticals Valorization of food waste Detection and control of foodborne pathogens Emerging techniques in food processing Bringing together experts drawn from around the world the book is a comprehensive reference in the most progressive field of food science and will be of interest to professionals scientists and academics in the food and biotech industries The book will be highly resourceful to governmental research and regulatory agencies and those who are studying and teaching food biotechnology Asymmetric and Selective Biocatalysis Jose M. Palomo,Cesar Mateo,2019-04-12 This

Issue contains one communication six articles and two reviews The communication from Paola Vitale et al represents a work where whole cells were used as biocatalysts for the reduction of optically active chloroalkyl arylketones followed by a chemical cyclization to give the desired heterocycles Among the various whole cells screened baker's yeast *Kluyveromyces marxianus* CBS 6556 *Saccharomyces cerevisiae* CBS 7336 *Lactobacillus reuteri* DSM 20016 baker's yeast provided the best yields and the highest enantiomeric ratios 95:5 in the bioreduction of the above ketones In this respect valuable chiral non racemic functionalized oxygen containing heterocycles e.g. S-styrene oxide S-2-phenyloxetane S-2-phenyltetrahydrofuran amenable to be further elaborated on can be smoothly and successfully generated from their prochiral precursors Studies about pure biocatalysts with mechanistical studies application in different reactions and new immobilization methods for improving their stability were reported in five different articles The article by Su Yan Wang et al describes the cloning expression purification and characterization of an N-acetylglucosamine 2-epimerase from *Pedobacter heparinus* PhGn2E For this several N-acylated glucosamine derivatives were chemically synthesized and used to test the substrate specificity of the

enzyme The mechanism of the enzyme was studied by hydrogen deuterium NMR The study at the anomeric hydroxyl group and C 2 position of the substrate in the reaction mixture confirmed the epimerization reaction via ring opening enolate formation Site directed mutagenesis was also used to confirm the proposed mechanism of this interesting enzyme The article by Forest H Andrews et al studies two enzymes benzoylformate decarboxylase BFDC and pyruvate decarboxylase PDC which catalyze the non oxidative decarboxylation of 2 keto acids with different specificity BFDC from *Pseudomonas putida* exhibited very limited activity with pyruvate whereas the PDCs from *S cerevisiae* or from *Zymomonas mobilis* showed virtually no activity with benzoylformate phenylglyoxylate After studies using saturation mutagenesis the BFDC T377L A460Y variant was obtained with 10 000 fold increase in pyruvate benzoylformate The change was attributed to an improvement in the K_m value for pyruvate and a decrease in the k_{cat} value for benzoylformate The characterization of the new catalyst was performed providing context for the observed changes in the specificity The article by Xin Wang et al compares two types of biocatalysts to produce D lysine L lysine in a cascade process catalyzed by two enzymes racemase from microorganisms that racemize L lysine to give D L lysine and decarboxylase that can be in cells permeabilized cells and the isolated enzyme The comparison between the different forms demonstrated that the isolated enzyme showed the higher decarboxylase activity Under optimal conditions 750 7 mmol L D lysine was finally obtained from 1710 mmol L L lysine after 1 h of racemization reaction and 0 5 h of decarboxylation reaction D lysine yield could reach 48 8% with enantiomeric excess ee of 99% In the article by Rivero and Palomo lipase from *Candida rugosa* CRL was highly stabilized at alkaline pH in the presence of PEG which permitted its immobilization for the first time by multipoint covalent attachment on different aldehyde activated matrices Different covalent immobilized preparation of the enzyme was successfully obtained The thermal and solvent stability was highly increased by this treatment and the novel catalysts showed high regioselectivity in the deprotection of per O acetylated nucleosides The article by Robson Carlos Alnoch et al describes the protocol and use of a new generation of tailor made bifunctional supports activated with alkyl groups that allow the immobilization of proteins through the most hydrophobic region of the protein surface and aldehyde groups that allows the covalent immobilization of the previously adsorbed proteins These supports were especially used in the case of lipase immobilization The immobilization of a new metagenomic lipase LipC12 yielded a biocatalyst 3 5 fold more active and 5000 fold more stable than the soluble enzyme The PEGylated immobilized lipase showed high regioselectivity producing high yields of the C 3 monodeacetylated product at pH 5 0 and 4 C Hybrid catalysts composed of an enzyme and metallic complex are also treated in this Special Issue The article by Christian Herrero et al describes the development of the Mn TpCPP Xln10A artificial metalloenzyme obtained by non covalent insertion of Mn III meso tetrakis p carboxyphenyl porphyrin Mn TpCPP 1 Mn into xylanase 10A from *Streptomyces lividans* Xln10A The complex was found able to catalyze the selective photo induced oxidation of organic substrates in the presence of RuII bpy 3 2 as a photosensitizer and CoIII NH₃ 5Cl 2 as a sacrificial electron acceptor using water as oxygen atom source The two

published reviews describe different subjects with interest in the fields of biocatalysis and mix metallic biocatalysis respectively The review by Anika Scholtissek et al describes the state of the art regarding ene reductases from the old yellow enzyme family OYEs to catalyze the asymmetric hydrogenation of activated alkenes to produce chiral products with industrial interest The dependence of OYEs on pyridine nucleotide coenzyme can be avoided by using nicotinamide coenzyme mimetics In the review three main classes of OYEs are described and characterized The review by Yajie Wang and Huimin Zhao highlights some of the recent examples in the past three years that combine transition metal catalysis with enzymatic catalysis With recent advances in protein engineering catalyst synthesis artificial metalloenzymes and supramolecular assembly there is great potential to develop more sophisticated tandem chemoenzymatic processes for the synthesis of structurally complex chemicals In conclusion these nine publications give an overview of the possibilities of different catalysts both traditional biocatalysts and hybrids with metals or organometallic complexes to be used in different processes particularly in synthetic reactions under very mild reaction conditions Carbohydrate Chemistry J S

Brimacombe,2007-10-31 Carbohydrate Chemistry provides review coverage of all publications relevant to the chemistry of monosaccharides and oligosaccharides in a given year The amount of research in this field appearing in the organic chemical literature is increasing because of the enhanced importance of the subject especially in areas of medicinal chemistry and biology In no part of the field is this more apparent than in the synthesis of oligosaccharides required by scientists working in glycobiology Glycomedicinal chemistry and its reliance on carbohydrate synthesis is now very well established for example by the preparation of specific carbohydrate based antigens especially cancer specific oligosaccharides and glycoconjugates Coverage of topics such as nucleosides amino sugars alditols and cyclitols also covers much research of relevance to biological and medicinal chemistry Each volume of the series brings together references to all published work in given areas of the subject and serves as a comprehensive database for the active research chemist Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis Biotechnology for Fuels and Chemicals Mark Finkelstein,Brian H. Davison,2012-12-06 MARK FINKELSTEIN National Renewable Energy Laboratory BRIAN H DAVISON Oak Ridge National Laboratory The proceedings of the 19th symposium on Biotechnologyfor Fuels and Chemicals held in Colorado Springs Colorado May 4 8 1997 had over 200 attendees This meeting continues to provide a unique forum for the presentation of new applications and recent research advances in the production of fuels and chemicals through biotech nology The utilization of renewable resources and in particular cellulosic biomass has broad implications in today s world of green house gases global warming ozone layers climate change energy sustainability and carbon emissions It also has relevance to the chemical industry s

continuing need to both lower current chemical production costs and produce novel chemicals. Biotechnology and bioprocessing are now making it possible to convert this biomass to fuels and chemicals in a commercially attractive fashion. The 19th Symposium captures a wide range of technical topics from an academic, industrial or government perspective. A variety of biomass feedstocks are discussed in Session 1 along with several updated and innovative pretreatment processing approaches. The ability to turn lignocellulosic materials into simple sugars offers great opportunities to generate cost effective feed stocks to be used in biotechnological processes for the production of fuels and chemicals. Through the advent of genetic engineering, the development of a series of exciting new biocatalysts and microbes were presented in Session 2.

Biochemistry of Foods N.A. Michael Eskin, 2012-12-02 **Biochemistry of Foods** **Development in Wastewater**

Treatment Research and Processes Maulin P. Shah, Susana Rodriguez-Couto, 2022-02-16 **Development in Wastewater Treatment Research and Processes** **Microbial Degradation of Xenobiotics through Bacterial and Fungal Approach** covers the active and applicable role that bacteria and fungi play in the degradation of xenobiotic compounds from the environment. The book gives up to date information on recent advancements in the field of environmental xenobiotics and how they disturb a plant's metabolism. The book also gives information on aerobic and anaerobic degradation of xenobiotic compounds through bacteria or fungi and or a combined approach. Finally the book covers the characteristics of environmental microbiology, biochemical engineering, agricultural microbiology, environmental engineering and soil bioremediation. Emphasizes up to date research on the microbial degradation of xenobiotic compounds through a bacterial/fungal approach. Covers multidisciplinary features of environmental microbiology, biochemical engineering, agriculture microbiology, environmental engineering and soil bioremediation. Includes sections on aerobic and anaerobic degradation. Presents the significance of the bacterial/fungal role and their metabolic activities in the digestion of xenobiotic compounds. Focuses on the most recent developments in environmental biotechnology to enhance the action of the bacterial/fungal systems in the remediation of xenobiotic compounds.

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