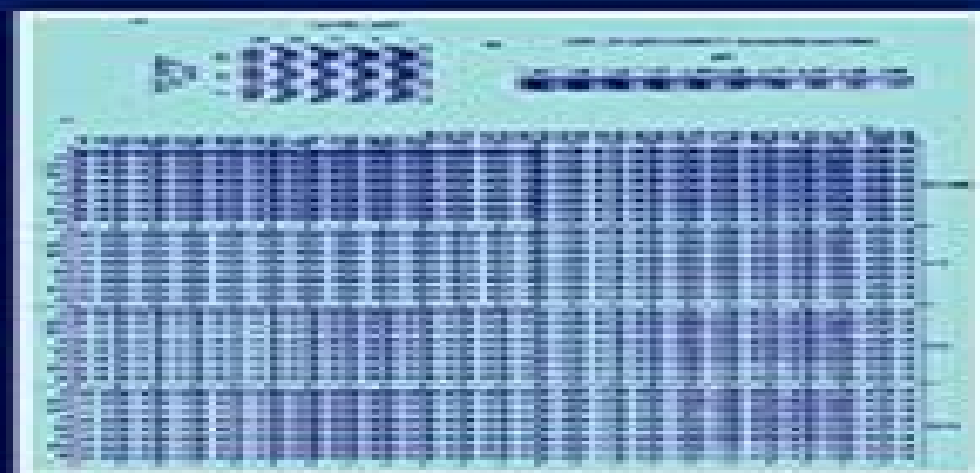


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Applied Biocatalysis in Specialty Chemicals and Pharmaceuticals



EDITED BY
Badal C. Saha and David C. Demirjian

Applied Biocatalysis In Specialty Chemicals And Pharmaceuticals Acs Symposium Series

Arthur James Wells



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Applied Biocatalysis in Specialty Chemicals and Pharmaceuticals Badal C. Saha, 2001 Written for a wide variety of biotechnologists this book provides a major review of the state of the art in bioethanol production technologies enzymatic biomass conversion and biodiesel It also provides a detailed explanation of a breakthrough in photosynthetic water splitting which could result in a doubling of the efficiency of solar energy conversion by green plants The book covers production of lactic acid succinic acid 1 3 propanediol 2 3 butanediol and polyhydroxybutyrate and xylitol It also includes a chapter on synthesis gas fermentation Publications and Patents of the National Center for Agricultural Utilization Research, Peoria, Illinois National Center for Agricultural Utilization Research (U.S.), 1997 Advances in Biofeedstocks and Biofuels, Production Technologies for Biofuels Lalit Kumar Singh, Gaurav Chaudhary, 2017-06-23 This second volume in the Advances in Biofeedstocks and Biofuels series focuses on the latest and most up to date technologies and processes involved in the production of biofuels Biofuels production is one of the most extensively studied fields in the energy sector that can provide an alternative energy source and bring the energy industry closer to sustainability Biomass based fuel production or renewable fuels are becoming increasingly important as a potential solution for man made climate change depleted oil reserves and the dangers involved with hydraulic fracturing or fracking The price of oil will always be volatile and changeable and as long as industry and private citizens around the world need energy there will be a need for alternative energy sources The area known as biofuels and biofeedstocks is one of the most important and quickly growing pieces of the energy pie Biofuels and biofeedstocks are constantly changing and new processes are constantly being created changed and improved upon The area is rapidly changing and always innovative It is important therefore that books like the volumes in this series are published and the information widely disseminated to keep the industry informed of the state of the art This second volume in the Advances in Biofeedstocks and Biofuels series focuses on the production of biofuel covering all of the major biofuels such as biodiesel biohydrogen bioethanol and others This engaging text touches on all of the most important new processes and technologies providing the most up to date coverage of the science available to industry It is a must have for any engineer or scientist working with biofuel technology Amino Acid Biosynthesis - Pathways, Regulation and Metabolic Engineering Volker F. Wendisch, 2007-03-24 Amino Acids Biosynthesis presents the current knowledge of fundamental as well as applied microbiology of amino acids Topics discussed are the amino acid biosynthetic pathways their genetic and biochemical regulation transport of amino acids and genomics of producing microorganisms The characterization of the control mechanisms of amino acid biosynthesis has revealed insights into principles of genetic and biochemical regulation such as transcriptional regulators and a new class of regulatory elements the riboswitch The volume further deals with the metabolic engineering of microorganisms for the biotechnological production of amino acids for use as pharmaceuticals and particularly as food and feed additives Comprehensive reviews are given of recent achievements to

enable or improve production of amino acids and dipeptides by fermentation and enzyme catalysis Here the particular focus is on metabolic engineering the rational improvement of metabolic functions using recombinant DNA technology

Designing Soybeans for 21st Century Markets Richard F. Wilson, 2015-08-15 Advances in genomics and biotechnology are enabling quantum leaps in the understanding of soybean molecular biology The problems that face the soybean industry also are diversifying and escalating on a global scale *Designing Soybeans for 21st Century* outlines current and emerging barriers in the global soybean market principally 1 long term ability to sustain production to meet continued growth in demand for soybean and soybean products 2 governmental and legislative policies 3 global access to advances in soybean technology and 4 customer and consumer trends in the use of soybean products The book also addresses state of art steps that should help move soybeans past these market barriers as advances in genomics and genetic engineering are deployed to design soybeans and soybean products that meet the challenges of 21st century markets Includes both an overview of the economic outlook of soybeans and details on the advances in soybean genetics and genomics Concise and well organized book with five main sections covering everything from regulatory issues to advances in genomics to commercial production for yielding a superior product Edited by a global leader in the field of oilseed genetics molecular biology and bioenergy research

Asymmetric Synthesis and Application of Alpha-Amino Acids Vadim A Soloshonok, Kunisuke Izawa, American Chemical Society. Meeting, 2009-07-09 This volume presents the most recent and comprehensive collection of reviews on methodological developments in the field of alpha amino acids

Prebiotics Bob Rastall, Glenn Gibson, 2006-05-01 The prebiotic concept works on the basis that many potentially health promoting microorganisms are already present in humans Prebiotics are non digestible food ingredients that stimulate activity in targeted microorganisms to improve the health of the individual Prebiotics can be incorporated into many foodstuffs such as beverages health and sports drinks infant formulae cereals bread savoury products and so forth and are receiving much commercial interest Prebiotics Development and Application is the first book to consolidate research in this emerging area of functional food study The book takes a broad view approach to prebiotics from the conceptual stage definition production evaluation of individual food products and their effect on microbial flora and their potential relation to diseases The book starts with an introduction to the prebiotic concept and its development proceeds to consider the synthesis and manufacture of prebiotics and testing for prebiotic effects and will then consider different forms of prebiotics e g fructans galactans lactulose etc The book will then look at prebiotic intervention for improving human health acute and chronic disorders and animal health The book closes by considering the sectors for prebiotic foods development and commercialisation issues and future developments

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