



Biotechnology and Industry Microbiology

Current applications and different approaches for microbial L-asparaginase production



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ABSTRACT

L-asparaginase (EC 3.5.1.1) is an enzyme that catalysis mainly the asparagine hydrolysis in L-aspartic acid and ammonium. This enzyme is presented in different organisms, such as microorganisms, vegetal, and some animals, including certain rodent's serum, but not unveiled in humans. It can be used as important chemotherapeutic agent for the treatment of a variety of lymphoproliferative disorders and lymphomas (particularly acute lymphoblastic leukemia (ALL) and Hodgkin's lymphoma), and has been a pivotal agent in chemotherapy protocols from around 30 years. Also, other important application is in food industry, by using the properties of this enzyme to reduce acrylamide levels in commercial fried foods, maintaining their characteristics (color, flavor, texture, security, etc.) Actually, L-asparaginase catalyzes the hydrolysis of L-asparagine, not allowing the reaction of reducing sugars with this aminoacid for the generation of acrylamide. Currently, production of L-asparaginase is mainly based in biotechnological production by using some bacteria. However, industrial production also needs research work aiming to obtain better production yields, as well as novel process by applying different microorganisms to increase the range of applications of the produced enzyme. Within this context, this mini-review presents L-asparaginase applications, production by different microorganisms and some limitations, current investigations, as well as some challenges to be achieved for profitable industrial production.

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Introduction

L-asparaginase aminohydrolase (L-asparaginase, EC 3.5.1.1), has gained attention in recent years due to its important applications, as its use in pharmaceutical industry as an alternative for treatment of different cancers such

as acute lymphoblastic leukemia, malignant diseases of the lymphoid system and Hodgkin's lymphomas.¹ Also, this enzyme is used in food industry to prevent the acrylamide formation when foods are processed in high temperatures.² This use is important because acrylamide is a neurotoxin classified as potentially carcinogenic to humans.³

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The Journal Of H And T

**Samiya Khan,Mansaf Alam,Shoaib
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Usta**

The Journal Of H And T:

The Electric Journal ,1927 The Journal of Physical Chemistry ,1900 **Rotordynamics 2** Neville F. Rieger,2014-05-04 A Guide to Serial Publications Founded Prior to 1918 and Now Or Recently Current in Boston, Cambridge, and Vicinity Thomas Johnston Homer,1922 *Encyclopedia of Marine Biotechnology* Se-Kwon Kim,2020-08-04

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The Journal of the Assembly During the ... Session of the Legislature of the State of California California. Legislature. Assembly,1964 **American Engineer and Railroad Journal** ,1902 *The Routledge International Handbook of Perinatal Mental Health Disorders* Amy Wenzel,2024-08-21

The Routledge International Handbook of Perinatal Mental Health Disorders comprehensively presents the leading global research in understanding and clinically treating perinatal mental health disorders In this wide ranging book Wenzel invites a global community of scholars and practitioners working in perinatal mental health to discuss contemporary empirical research in the field and how this can be applied in practice Presented in five parts the book begins by laying out the historical context of the field before exploring prenatal and postpartum mental health disorders such as depression anxiety alcohol and drug misuse eating disorders and insomnia Chapters describe different interventions such as mindfulness based

interventions integrative interpersonal psychotherapy and cognitive behavioral therapy before addressing specific special issues such as fathers experiences 2SLGBTQ individuals and perinatal mental health disorders in migrant women Designed to have international relevance each chapter includes case studies and sections on cultural considerations and clinical dialogue is used throughout to illustrate specific applications of contemporary empirical research to clinical practice This handbook is essential reading for clinicians who have an interest in issues associated with perinatal mental health disorders as well as students of clinical social work clinical psychiatry clinical psychology obstetrics and gynecology nursing and midwifery

Extended Reality for Healthcare Systems Samiya Khan,Mansaf Alam,Shoaib Amin Banday,Mohammed Shaukat Usta,2022-10-18 Extended Reality for Healthcare Systems Recent Advances in Contemporary Research focuses on real world applications in medicine also providing an overview of emerging technologies The book includes case studies that break down the ways in which this technology has and can be used while also taking readers through evidence best practices and obstacles Sections emphasize evidence research based practices and work Content coverage includes Enhancing Medical Education with AR VR and XR The Future of Surgery and Building Systems for Enhanced Health and more Readers will learn how to use this technology to improve existing systems by enhancing precision and reducing costs Other sections cover extended reality in elderly care and remote monitoring of patients building systems for enhanced health including telehealth and telepsychiatry using AR and VR in medical education and designing technology for use in telesurgery Offers advice on the development of state of the art tech driven healthcare systems and technologies for improving the quality of healthcare Focuses on healthcare solutions that are inclusive and cost effective Discusses the future limitations and challenges associated with the use and adoption of XR for healthcare

Herndon's Lincoln William Henry Herndon,Jesse William Weik,1999-06-01 This DSI edition contains all 3 Volumes in one binding The type was reset for a clean look and appearance My long personal association with Mr Lincoln gave me special facilities in the direction of obtaining materials for these volumes Such were our relations during all that portion of his life when he was rising to distinction that I had only to exercise a moderate vigilance in order to gather and preserve the real data of his personal career Being strongly drawn to the man and believing in his destiny I was not unobservant or careless in this respect It thus happened that I became the personal depository of the larger part of the most valuable Lincolniana in existence Out of this store the major portion of the materials of the following volumes has been drawn A facsimile edition of the original 3 volume set published in 1888 The object of this work is to deal with Mr Lincoln individually and domestically as lawyer as citizen as statesman William H Herndon Springfield Illinois 1888

Rifamycin Antibiotics—Advances in Research and Application: 2012 Edition ,2012-12-26 Rifamycin Antibiotics Advances in Research and Application 2012 Edition is a ScholarlyPaper that delivers timely authoritative and intensively focused information about Rifamycin Antibiotics in a compact format The editors have built Rifamycin Antibiotics Advances in Research and Application 2012 Edition on the vast information databases of

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for Physical and Mental Health Michael Kellmann,Sarah Jakowski,Jürgen Beckmann,2023-03-02 This book offers a thorough and accessible look into the importance of recovery in both staying healthy and performing well and highlights the detrimental effects of underrecovery on physical and mental health Internationally renowned experts from psychology physiology sport medicine health and sport science offer interdisciplinary analysis of the effects of underrecovery as well as the use of applied intervention and prevention strategies Over the last few decades research in sports has provided numerous studies showing the importance of addressing recovery to find recovery stress balance and build resources that help prevent illness and promote healthy living and well being Each chapter of this volume discusses a specific area of recovery providing a collection of useful and practical lessons athletes and non athletes can take forward in their training and beyond Focusing on both research and applied counseling techniques to discuss recovery as an underestimated factor in physical and mental health the book aims to enlighten readers on ways to incorporate recovery into their everyday lives to reduce stress and prevent injury The book is written for the scientific community applied health scientists students and interested readers It draws on experiences and scientific findings from the field of sport to make them usable for an expanded understanding of recovery in the field of health and related areas such as the workplace *Superhalogens and*

Superalkalis Pratim Kumar Chattaraj,Ambrish Kumar Srivastava,2024-04-15 Superhalogens and Superalkalis is a comprehensive volume designed as the go to resource on the exciting and evolving topics of these special classes of atomic clusters and the acid salt that results from their interactions The book details how these substances possess not only unusual structures but also unique properties which can be exploited for various applications Superhalogens strong oxidizing capacity resulting from their high electron affinity leads to their applications in the design of superacids organic superconductors and ionic liquids The low ionization energy of superalkalis enables them to act as strong reducing agents making them useful in the design of superbases and alkalides Illustrated throughout this timely book provides an overview of the research and development on these and other aspects of superhalogen and superalkalis Key features Offers a basic introduction of superatoms that is accessible for readers to understand Includes extensive study questions after each chapter Provides a systematic presentation of the existing literature on this increasingly trending topic Presents the latest developments in the field offering readers state of art knowledge This book is a key reference guide for graduate students

postdocs upper level undergraduate students academic professionals and researchers who are interested in this fascinating topic

Composite Construction in Steel and Concrete 9 Markus Knobloch,Ulrike Kuhlmann,Wolfgang Kurz,Markus Schafer,2024-09-03 Composite Construction in Steel and Concrete IX The highly successful International Conference series on Composite Construction in Steel and Concrete is a major forum for researchers practitioners and engineers to share and discuss their research practical experience and innovations related to composite constructions in steel and concrete Composite Construction is a key consideration in the design of buildings and infrastructure Significant advances in research and development have increased the knowledge of the structural performance of composite structures Some areas are becoming well understood and implemented in the design practice codes and standards worldwide while others like e g application of high performance materials or dismountable and reusable composite members need further studies trends that are reflected by the conference papers The 62 contributions contained in this book cover a wide variety of topics including composite beams composite columns composite decks joints shear connections fire behavior seismic behavior fatigue and fracture codification composite bridges innovative hybrid structures numerical investigations and practical applications The Papers are peer reviewed by the Scientific Board and may be adapted based on the outcome of the discussions during the conference This book therefore summarizes the state of the art in composite construction worldwide as presented at the 9th International Conference on Composite Construction in Steel and Concrete hosted by the Ruhr Universit t Bochum University of Stuttgart RPTU Kaiserslautern Landau and University of Luxembourg representing the work of authors from 18 countries

Natural Biomarkers for Cellular Metabolism Vladimir V. Ghukasyan,Ahmed A. Heikal,2014-09-26 From the Lab to Clinical Settings Advances in Quantitative Noninvasive Optical DiagnosticsNoninvasive fluorescence imaging techniques novel fluorescent labels and natural biomarkers are revolutionizing our knowledge of cellular processes signaling and metabolic pathways the underlying mechanisms for health problems and the identification of n [Index of Economic Material in Documents of the States of the United States ...: California, 1849-1904. 1908](#) Adelaide Rosalia Hasse,1919

Children Draw And Tell Marvin Klepsch,Laura Logie,2014-05-22 First published in 1988 Child therapists have long been fascinated by children s human figure drawings and what they reveal about self image feelings and family relation ships Now this comprehensively researched volume provides a valuable introduction to using children s human figure drawings as projective measures in a variety of settings The principles for interpreting drawings as well as general and specific indicators are illustrated in 85 children s drawings Part I on The Theory deals with the background of projective psychology discussing art as a projective technique and emphasizing that all behavior including drawings reflects personality attitudes and values The authors examine the major methods of obtaining diagnostic information and recommend the use of several methods for best results Part II on The Application examines in detail the projective use of children s human figure drawings to evaluate personality relationships particularly in families group values and attitudes In each area research is presented directions for

administration of various tests are given and guidelines for interpretation are offered Significant factors are revealed in numerous children s drawings accompanied by clinical comments Of special interest is the presentation of original research on group values among Canadian Indian Saskatchewan Cree children and on attitudes of young children toward teachers doctors and other authority figures as revealed in human figure drawings For psychologists social workers teachers and other child care professionals as well as students in these fields this is an indispensable basic guide to interpreting human figure drawings **Circular** ,1868 **The Journal of Electrical Workers and Operators** ,1916 **Sustainable Utilization of Natural Resources** Prasenjit Mondal,Ajay K. Dalai,2017-03-16 Increased research is going on to explore the new cleaner options for the utilization of natural resources This book aims to provide the scientific knowhow and orientation in the area of the emerging technologies for utilization of natural resources for sustainable development to the readers The book includes production of energy and lifesaving drugs using natural resources as well as reduction of wastage of resources like water and energy for sustainable development in both technological as well as modeling aspects

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