

MICROBIOLOGY MONOGRAPHS

ALEXANDER STEINBÜCHEL
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Amino Acid Biosynthesis — Pathways, Regulation and Metabolic Engineering



Springer

Amino Acid Biosynthesis Pathways Regulation And Metabolic Engineering Microbiology Monographs

Xiaoyuan Wang, Jian Chen, Peter Quinn



Amino Acid Biosynthesis Pathways Regulation And Metabolic Engineering Microbiology Monographs:

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

Amino Acid Fermentation Atsushi Yokota, Masato Ikeda, 2017-05-11 This book presents the latest findings on amino acid fermentation and reviews the 50 year history of their development The book is divided into four parts the first of which presents a review of amino acid fermentation past and present The second part highlights selected examples of amino acid fermentation in more detail while the third focuses on recent advanced technologies The last part introduces readers to several topics for future research directions in amino acid production systems A new field amino acid fermentation was created by the progress of academic research and industrial development In 1908 the Japanese researcher Kikunae Ikeda discovered glutamate as an Umami substance Then a new seasoning MSG monosodium glutamate was commercialized Although glutamate was extracted from the hydro lysate of wheat or soybean in the early days a new production method was subsequently invented fermentation in which glutamate is produced from sugars such as glucose by a certain bacterium called *Corynebacterium* The topic of this volume is particularly connected in a significant way with biochemical biotechnological and microbial fields Both professionals in industry and an academic audience will understand the importance of this volume

Corynebacterium glutamicum Nami Tatsumi, Masayuki Inui, 2012-08-14 *Corynebacterium glutamicum* was discovered in Japan in 1956 as a natural glutamate producer Its microbial factory qualities such as its physiological plasticity and robust catalytic functionalities have since facilitated the development of efficient production processes for amino acids nucleotides and vitamins This monograph illustrates how the information gleaned from complete genome sequencing allows the rational engineering of the entire cellular metabolism and how systems biology permits the further optimization of *C. glutamicum* as a biocatalyst Aspects of gene regulation metabolic pathways sugar uptake protein secretion cell division and biorefinery applications highlight the enormous biotechnological and biorefinery potential

Corynebacterium glutamicum Masayuki Inui, Koichi Toyoda, 2020-04-13 This updated second edition covers the molecular biology genome engineering tools and comprehensive analysis techniques for *Corynebacterium glutamicum* Aside

from modern omics based approaches the authors also focus on cell physiology including cell division central carbon metabolic pathways and the respiratory chain Readers will learn how primary mechanisms like energy metabolism can be applied in processes like biorefinery Newly added topics include cell envelope structures and aromatic compound metabolism in *C. glutamicum* These chapters will be particularly useful for those interested in the microbial production of commodity chemicals fuels and proteins *Corynebacteriaceae* are already some of the most important industrial microorganisms Understanding the cell physiology of *C. glutamicum* will help manufacturers to increase their product range and productivity through efficient metabolic engineering

Reprogramming Microbial Metabolic Pathways Xiaoyuan Wang, Jian Chen, Peter Quinn, 2012-10-20 Metabolic engineering has been developed over the past 20 years to become an important tool for rational engineering of microorganisms This book has a particular interest in the methods and applications of metabolic engineering to improve the production and yield of a variety of metabolites in microorganisms The overall goal is to achieve a better understanding of metabolism in different microorganisms and provide a rational basis to reprogram microorganisms for improved biochemical production This book brings together contributions from leading researchers at the cutting edge of these topics The subject matter is divided into two sections The first section deals with novel and emerging methods for redesigning microorganisms exploiting systems biology and gene regulation The second discusses practical aspects of metabolic engineering for over production of a variety of valuable chemicals and materials by fermentation

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 Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW

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 *Desk Encyclopedia of Microbiology* Moselio Schaechter, 2010-04-19 The Desk Encyclopedia of Microbiology Second Edition is a single volume comprehensive guide to microbiology for the advanced reader Derived from the six volume e only Encyclopedia of Microbiology Third Edition it bridges the gap between introductory texts and specialized reviews Covering topics ranging from the basic science of microbiology to the current hot topics in the field it will be invaluable for obtaining background information on a broad range of microbiological topics preparing lectures and preparing grant applications and reports The most comprehensive single volume source providing an overview of microbiology to non specialists Bridges the gap between introductory texts and specialized reviews Provides concise and general overviews of important topics within the field making it a helpful resource when preparing for lectures writing reports or drafting grant applications *Microbial Megaplasms* Edward Schwartz, 2009-01-29 Megaplasms are extrachromosomal genetic elements in the size range of 100 kb and larger They are found in physiologically and phylogenetically diverse groups of bacteria and archaea By definition megaplasms are not essential for the viability of their hosts under all growth conditions but paradoxically many megaplasms carry the genetic information for the defining and characteristic traits of the organism in which they reside Microbial Megaplasms reviews our knowledge of the extensively studied representatives such as the catabolic plasmids of the pseudomonads the rhizobial Sym plasmids the Ti plasmids of the genus Agrobacterium and the giant enterobacterial virulence plasmids It also presents snapshots of more recently discovered megaplasms The contribution of megaplasms to the biology of their hosts is described highlighting the interactions between megaplasmid and chromosomal genes Comprehensive Biotechnology , 2011-08-26 The second edition of Comprehensive Biotechnology Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up to date and essential entries on the principles and practice of biotechnology The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields With two volumes covering basic fundamentals and four volumes of applications from environmental biotechnology and safety to medical biotechnology and healthcare this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format It is a multi authored work written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence All six volumes are published at the same time not as a series this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas Hyperlinks provide sources of extensive additional related information material authored and edited by world renown experts in all aspects of the broad multidisciplinary field of

biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field

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