



Amino acid biosynthesis : pathways, regulation, and metabolic engineering /

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Springer,
2007

Electronic books

Monografía

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

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Título: Amino acid biosynthesis pathways, regulation, and metabolic engineering volume editor, Volker F. Wendisch

Editorial: Berlin New York Springer 2007

Descripción física: 1 online resource (x, 413 pages) illustrations

Mención de serie: Microbiology monographs 1862-5576 5

Documento fuente: Springer e-books

Bibliografía: Includes bibliographical references and index

Contenido: Production of Glutamate and Glutamate-Related Amino Acids: Molecular Mechanism Analysis and Metabolic Engineering -- The l-Lysine Story: From Metabolic Pathways to Industrial Production -- l-Threonine -- Aromatic Amino Acids -- Branched-Chain Amino Acids -- Methionine Biosynthesis in Escherichia coli and Corynebacterium glutamicum -- Cysteine Metabolism and Its Regulation in Bacteria -- Microbial Arginine Biosynthesis: Pathway, Regulation and Industrial Production -- l-Serine and Glycine -- Alanine, Aspartate, and Asparagine Metabolism in Microorganisms -- Amino Acid Transport Systems in Biotechnologically Relevant

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ISBN: 9783540485957 3540485953 9783540485964 electronic bk.) 3540485961 electronic bk.) 9786610817702 6610817707

Materia: Amino acids Protein engineering Amino Acids- biosynthesis Amino Acids- metabolism Biosynthetic Pathways Protein Engineering SCIENCE- Life Sciences- Biochemistry. Protein engineering. Amino acids- Biosynthesis. Amino acids- Metabolism. Biosynthetic Pathways. Amino acids. Biomédecine. Sciences de la vie. Amino acids. Protein engineering.

Autores: Wendisch, Volker F.

Enlace a formato físico adicional: Print version Amino acid biosynthesis. Berlin ; New York : Springer, 2007 9783540485957 3540485953 (OCoLC)127107509

Punto acceso adicional serie-Título: Microbiology monographs 5. 1862-5576

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