Biotechnology of Microbial Enzymes

Description: Biotechnology of Microbial Enzymes: Production, Biocatalysis and Industrial Applications provides a complete survey of the latest innovations on microbial enzymes, highlighting biotechnological advances in their production and purification along with information on successful applications as biocatalysts in several chemical and industrial processes under mild and green conditions.

Applications of microbial enzymes in food, feed, and pharmaceutical industries are given particular emphasis. The application of recombinant DNA technology within industrial fermentation and the production of enzymes over the last 20 years have produced a host of useful chemical and biochemical substances. The power of these technologies results in novel transformations, better enzymes, a wide variety of applications, and the unprecedented development of biocatalysts through the ongoing integration of molecular biology methodology, all of which is covered insightfully and in-depth within the book.

- Features research on microbial enzymes from basic science through application in multiple industry sectors for a comprehensive approach
- Includes information on metabolic pathway engineering, metagenomic screening, microbial genomes, extremophiles, rational design, directed evolution, and more
- Provides a holistic approach to the research of microbial enzymes

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an introduction 2 Production, purification and application of microbial enzymes 3 Solid state fermentation for production of microbial cellulases 4 Hyperthermophilic subtilisin-like proteases from Thermococcus kodakarensis 5 Enzymes from basidiomycetes peculiar and efficient tools for biotechnology 6 Microbial production and molecular engineering of industrial enzymes: Challenges and strategies 7 Metagenomics and the search for industrial enzymes 8 The pocket manual of directed evolution: Tips and tricks 9 Insights into the structure and molecular mechanisms of beta-lactam synthesizing enzymes in fungi 10 The cellulosome: A supramolecular assembly of microbial biomass-degrading enzymes 11 Microbial enzymes of use in industry 12 Significance of microbial glucokinases 13 Lipase-catalyzed organic transformations: A recent update 14 Enzymatic biocatalysis in chemical transformations: A promising and emerging field in green chemistry practice 15 Microbial enzymes for glycoside synthesis: Development of sucrose phosphorylase as a test case 16 Industrial Applications of Multi-step Enzyme Reactions 17 Biocatalysis for industrial production of active pharmaceutical ingredients (APIs) 18 Agro-industrial residues and microbial enzymes: An overview on the eco-friendly bioconversion into high value-added products 19 Microbial enzymes for the food industry 20 Productive chain of biofuels and industrial biocatalysis: Two important opportunities for Brazilian sustainable development

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