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Nota di contenuto	Cover; Title Page; Copyright; Contents; List of Contributors; Preface; Part A Molecular Biology, Enzyme Screening and Bioinformatics; Part B Biocatalytic Synthesis; Part C Reaction and Process Engineering; Index; EULA; Chapter 1 Engineering Lipases with an Expanded Genetic Code; Chapter 2 Screening of Enzymes: Novel Screening Technologies to Exploit Noncultivated Microbes for Biotechnology; Chapter 3 Robust Biocatalysts - Routes to New Diversity; Chapter 4 Application of High-Throughput Screening in Biocatalysis; Chapter 5 Supporting Biocatalysis Research with Structural Bioinformatics Chapter 6 Engineering Proteases for Industrial Applications Chapter 7 Biocatalytic Synthesis of Natural Products by O-Methyltransferases; Chapter 8 Biocatalytic Phosphorylation of Metabolites; Chapter 9 Flavonoid Biotechnology - New Ways to High-Added-Value Compounds; Chapter 10 Transaminases - A Biosynthetic Route for Chiral Amines; Chapter 11 Biocatalytic Processes for the Synthesis of Chiral Alcohols; Chapter 12 Inorganic Adsorbents in Enzymatic Processes; Chapter 13 Industrial Application of Membrane

Chromatography for the Purification of Enzymes

Chapter 14 Fermentation of Lactic Acid Bacteria: State of the Art and New Perspectives

Chapter 15 The Bubble Column Reactor: A Novel Reactor Type for Cosmetic Esters; Chapter 16 Pharmaceutical Intermediates by Biocatalysis: From Fundamental Science to Industrial Applications; Chapter 17 Biocatalysis toward New Biobased Building Blocks for Polymeric Materials;

1.1 Introduction; 1.2 Enzyme Activity of Lipases from Different Sources and Engineering Approaches; 1.3 Noncanonical Amino Acids in Lipase Design and Engineering

1.4 Case Study: Manipulating Proline, Phenylalanine, and Methionine Residues in Lipase

1.5 "Unnatural" Lipases Are Able to Catalyze Reactions under Different Hostile Environments; 1.6 Lipase Engineering via Bioorthogonal Chemistries: Activity and Immobilization; 1.7

Conclusions and Perspectives; References; 2.1 Introduction; 2.2

Sequence- versus Function-Based Metagenomic Approach to Find Novel Biocatalysts; 2.3 Alternative Hosts, Metatranscriptomics, and

Metaproteomics; 2.4 Future Perspectives; References; 3.1 Introduction

3.2 Metagenomics to Retrieve New Genes from Extremophilic

Microorganisms

3.3 Microbial Expression Hosts for the Production of

Extremozymes; 3.4 Molecular Biology Approaches for Enzyme

Improvement; 3.5 Conclusions and Future Perspectives; References; 4.1

Introduction; 4.2 Discussions; 4.3 Summary; References; 5.1

Introduction; 5.2 Computational Tools to Assist Biocatalysis Research;

5.3 From Active Site Analysis to Protein Stability Considerations; 5.4

Applying DoGSiteScorer and HYDE to Biocatalytical Questions; 5.5

Conclusion and Future Directions; Acknowledgments; References

6.1 Proteases in Industry
