

1. Record Nr.	UNINA990002515570403321
Autore	Sinclair, Ian Robertson
Titolo	The 25 [dollar] network handbook / Ian Sinclair
Pubbl/distr/stampa	Wilmslow : Sigma, 1993
ISBN	1-85058-320-X
Descrizione fisica	viii, 117 p. ; 24 cm
Locazione	MAS
Collocazione	VII-A-67
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910134857603321
Titolo	Applied biocatalysis : from fundamental science to industrial applications / / edited by Lutz Hilterhaus [and three others]
Pubbl/distr/stampa	Weinheim, Germany : , : Wiley-VCH Verlag GmbH & Co. KGaA, , 2016 ©2016
ISBN	3-527-67714-3 3-527-67713-5 3-527-67712-7
Descrizione fisica	1 online resource (464 p.)
Disciplina	660.634
Soggetti	Enzymes - Biotechnology Biocatalysis Enzymes - Industrial applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and

index.

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

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