

<<化学生物学>>

图书基本信息

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内容概要

《生命科学新视野》丛书精选Trends、Current Opinion和Drug Discovery Today等系列出版物中的部分最新论文，以原文稍加中文注解的形式，按专题编辑成册。

本书为其中一册，共有25篇文章，主要涉及生物催化、生物转化、人工进化等内容。

本书将主要面向大学高年级学生、教师、研究生以及科研工作者，供其参考和收藏。

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书籍目录

中文摘要化学生物学Enzymatic tools for engineering natural product glycosylationSophie Blanchard and Jon S Thorson天然产物糖基化的工具酶Nucleic acid aptamers and enzymes as sensorsNaveen K Navani and Yingfu Li作为传感器的核酸适配子和酶Catalytic antibodies and their applicationsCarl Veith Hanson, Yasuhim Nishiyama and Sudhir Paul催化抗体及其应用The evolution of DNA polymerases with novel activitiesAllison A Henry and Floyd E Romesberg新活性DNA聚合酶的人工进化Understanding enzyme action on immobilised substratesPeter J Hatling, Rein V Ulijn and Sabine L Flitsch酶对固定化底物的作用Mining genomes and 'metagenomes' for novel catalystsManuel Ferrer, Francisco Martinez-Abarca and Peter N Golyshin从基因组和“宏基因组”中寻找新型催化剂Ultra-high-throughput screening based on cell-surface display and fluorescence-activated cell sorting for the identification of novel biocatalystsStefan Becker, Hans-Ulrich Schmoldt, Thorsten Michael Adams, Susanne Wilhelm and Harald Kolmar基于细胞表面展示及荧光活化细胞分类的超高通量筛选, 寻找新型生物催化剂Improved β -lactam acylases and their use as industrial biocatalystsCharles F Sio and Wim J Quax改良的 β -内酰胺酰基转移酶及其作为工业生物催化剂的应用Enzyme catalysed deracemisation and dynamic kinetic resolution reactionsNicholas J Turner酶催化的去消旋化和动态动力学拆分Peroxide-utilizing biocatalysts: structural and functional diversity of heme-containing enzymesIsamu Matsunaga and Yoshitsugu Shiro利用过氧化物的生物催化剂: 含有亚铁血红素的酶的结构与功能的多样性Hydrogenases: active site puzzles and progressFraser A Armstrong氢化酶: 活性位点之谜与进展Enantioselective biocatalysis optimized by directed evolutionKarl-Erich Jaeger and Thorsren Eggert通过定向进化优化对映选择性生物催化剂Evolving haloalkane dehalogenasesDick B Janssen卤烷烃去卤化酶的人工进化Harnessing microbial activities for environmental cleanupFrank E Loffler, Elizabeth A Edwards利用微生物活性进行环境净化BioethanolKevin A Gray, Lishan Zhao and Mark Emptage生物乙醇Chemical diversity through biotransformationsMichael Mueller生物转化带来的化学多样性Metabolic engineering of Escherichia coli and Corynebacterium glutamicum for biotechnological production of organic acids and amino acidsvolker F Wendisch, Michael Bott and Bernhard J Eikmanns生产有机酸和氨基酸的大肠杆菌与谷氨酰胺棒状杆菌的代谢工程Recent advances in oxygenase-catalyzed biotransformationsVlada B Urlacher and Rolf D Schmid加氧酶催化的生物转化的最新进展The soil metagenome-a rich resource for the discovery of novel natural productsRolf Daniel土壤宏基因组—发现新型天然产物的宝库Biocatalysis in pharmaceutical preparation and alterationBarrie Wilkinson and Brian O Bachmann药物制备与改造中的生物催化High-throughput screening of biocatalytic activity: applications in drug discoveryR Anand Kumar and Douglas S Clark生物催化活性的高通量筛选: 在药物发现中的应用High-throughput screens and selections of enzyme-encoding genesAmir Aharoni, Andrew D Griffiths and Dan S Tawfik酶编码基因的高通量筛选与精选Predicting enzyme function from protein sequenceJeremy Minshull, Jon E Ness, Claes Gustafsson and Sridhar Govindarajan从蛋白质序列预测酶功能Synthesis and modifications of carbohydrates, using biotransformationsAlison M Daines, Beatrice A Maltman and Sabine L Flitsch应用生物转化进行碳水化合物的合成和修饰Whole organism biocatalysisTakeru Ishige, Kohsuke Honda and Sakayu Shimizu全生物体生物催化

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