

<<天然产物的化学和生物学意义>>

图书基本信息

书名：<<天然产物的化学和生物学意义>>

13位ISBN编号：9787506242684

10位ISBN编号：7506242680

出版时间：1999-6

出版时间：世界图书出版公司北京公司

作者：J.Mann,R.S.Davidsom,et al 著

页数：455

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<天然产物的化学和生物学意义>>

书籍目录

List of contributors Foreword INTRODUCTION 1 CARBOHYDRATES by J. Mann 1.1 Introduction 1.2 Structural types 1.3 Sources and functions 1.4 Chemistry of monosaccharides 1.4.1 Reactions of the hydroxyl group 1.4.2 Reactions at the anomeric centre 1.5 Structure elucidation 1.6 The total synthesis of natural products and related compounds using carbohydrates 1.6.1 Synthesis of thromboxane B<sub>2</sub> 1.6.2 Synthesis of (-)-shikimic acid 1.6.3 Synthesis of (+)-showdomycin 1.6.4 Synthesis of (+)-exo-brevicomine 1.6.5 Synthesis of (+)-muscarine 1.7 Synthesis of carbohydrates 1.7.1 Synthesis of L-(-)-daunosamine 1.7.2 Synthesis of methyl-L-ribofuranoside 1.7.3 Synthesis of lincosamine 1.7.4 Synthesis via asymmetric epoxidation of allylic alcohols: the Sharpless epoxidation 1.7.5 Synthesis of glycopeptides 1.7.6 Synthesis of an artificial antigen Further reading 2 NUCLEOSIDES, NUCLEOTIDES, AND POLYNUCLEOTIDES by J. B. Hobbs 2.1 Introduction 2.2 Nucleosides 2.2.1 Nucleoside conformation 2.2.2 Nucleoside synthesis 2.3 Nucleotides 2.3.1 Nucleotide biosynthesis 2.3.2 Nucleotide synthesis 2.3.3 P-chiral nucleotides 2.3.4 Some applications of ATP NMR in nucleotide research 2.4 Oligo- and polynucleotides 2.4.1 Biosynthesis 2.4.2 Oligonucleotide synthesis 2.4.3 Assembly of longer oligonucleotides and genes 2.4.4 Nucleic acid sequencing 2.4.5 Recombinant DNA 2.4.6 Copying DNA: the polymerase chain reaction Further reading 3 AMINO ACIDS AND PEPTIDES by R. S. Davidson and J. B. Hobbs, with D. O. Smith 3.1 Introduction 3.2 Synthesis of  $\alpha$ -amino acids 3.2.2 Newer synthetic routes 3.2.3 Syntheses based on  $\alpha$ -amino acids as chiral building blocks 3.2.4 Resolution of racemic mixtures of  $\alpha$ -amino acids 3.3 Biodegradation of the amino acids 3.3.1 Transamination 3.3.2 The metabolic fate of the  $\alpha$ -ketoacids 3.3.3 Biosynthesis of the amino acids 3.4 Chemical synthesis of peptides 3.4.1 N-protecting groups 3.4.2 Selective protection of  $\alpha$ -diaminocarboxylic acids 3.4.3 C-protecting groups 3.4.4 Selective protection of carboxyl groups of the mono amino dicarboxylic acids 3.4.5 Protection of other functional groups 3.4.6 Activation and coupling 3.4.7 Summary of strategies and methods available for synthesizing peptides in solution 3.4.8 Example of peptide synthesis using the solution method 3.4.9 Use of solid supports in peptide synthesis: the Merrifield approach 3.4.10 Use of solid supports in peptide synthesis: the use of polyacrylamide resins ..... 4 FATTY ACIDS AND THEIR DERIVATIVES by J. B. Hobbs 5 TERPENOIDS by D. V. Banthorpe 6 PHENOLICS by J. B. Harborne 7 ALKALOIDS by J. Mann INDEX

<<天然产物的化学和生物学意义>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介, 请支持正版图书。

更多资源请访问:<http://www.tushu007.com>