Record Nr. UNINA9910830528103321 Combinatorial peptide and nonpeptide libraries: a handbook / / edited **Titolo** by Gunther Jung Pubbl/distr/stampa Weinheim, [Germany]:,: VCH,, 1996 ©1996 **ISBN** 1-281-84264-8 9786611842642 3-527-61491-5 3-527-61490-7 Descrizione fisica 1 online resource (574 p.) Disciplina 547.756 Soggetti Combinatorial chemistry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Combinatorial Peptide and Nonpeptide Libraries: Preface; Contents; List of Contributors; List of Abbreviations; 1 Natural Peptide Libraries of Microbial and Mammalian Origin; 1.1 Introduction; 1.2 Natural Peptide Libraries of Microbial Origin; 1.2.1 Microbial Polypeptide Antibiotics by Multienzymatic Thiotemplate Synthesis: 1.2.2 Polypeptide Antibiotics by Ribosomal Precursor Protein Synthesis and Posttranslational Modifications: 1.2.3 Combinatorial Biosynthesis and Biological Diversity of Polyketids; 1.3 Natural Peptide Libraries of Mammalian Origin 1.3.1 Self-peptide Libraries Isolated from MHC-Class I Molecules 1.3.2 Self-peptide Libraries Isolated from MHC-Class II Molecules; 1.4 From Natural to Synthetic Peptide Libraries; 1.4.1 Synthetic Methods and the Variety of Peptide and Oligomer Libraries: 1.4.2 Analysis of Synthetic Peptide Libraries: 1.4.3 Selected Applications of Synthetic Peptide Libraries; References; 2 Polymer Supported Organic Synthesis: A Review; 2.1 Introduction; 2.2 Solid-Phase Organic Synthesis and

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Sommario/riassunto

With combinatorial chemistry millions of organic compounds can be produced simultaneously, quickly, and in most cases by automated procedures. These compound libraries are a cost-effective resource for the pharmaceutical industry in their search for biologically active lead structures. Furthermore simultaneous parallel synthesis of single peptides and peptide libraries solve the problem of the worldwide increasing demand for peptides. The synthetic methods described here in detail contribute to a forward-looking technology that has a high impact for industrial and academic research. Fas