

1. Record Nr.	UNISA996211647403316
Autore	Seneci Pierfausto <1960->
Titolo	Solid phase synthesis and combinatorial technologies [[electronic resource] /] / Pierfausto Seneci
Pubbl/distr/stampa	New York, : John Wiley & Sons, c2000
ISBN	1-280-36647-8 9786610366477 0-470-35261-2 0-471-46073-7 0-471-22039-6
Descrizione fisica	1 online resource (653 p.)
Disciplina	547.2 547/.2
Soggetti	Solid-phase synthesis Combinatorial chemistry
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 and index.
Nota di contenuto	SOLID-PHASE SYNTHESIS AND COMBINATORIAL TECHNOLOGIES; CONTENTS; Preface; 1 Solid-Phase Synthesis: Basic Principles; 1.1 Solid Supports; 1.2 Linkers; 1.3 Reaction Monitoring in Solid-Phase Synthesis; 1.4 Purity and Yield Determination in Solid-Phase Synthesis; References; 2 Solid-Phase Synthesis: Oligomeric Molecules; 2.1 Peptides; 2.2 Oligonucleotides; 2.3 Oligosaccharides; References; 3 Solid-Phase Synthesis: Small Organic Molecules; 3.1 Small Organic Molecules on Solid Phase: Target Selection and Solution Studies; 3.2 Small Organic Molecules on Solid Phase: Solid-Phase Synthesis 3.3 Small Organic Molecules on Solid Phase: From Solid-Phase Synthesis to Synthetic Organic Libraries3.4 An Example: Solid-Phase Synthesis of 1H-[2]Pyrindinones; 3.5 Solid-Phase Synthetic Strategies: Selected Examples; References; 4 Combinatorial Technologies: Basic Principles; 4.1 Combinatorial Technologies; 4.2 Combinatorial Libraries; References; 5 Synthetic Organic Libraries: Library Design and Properties; 5.1 Primary Libraries: Shooting in the Dark?; 5.2 Focused Libraries: High-Throughput Structure--Activity Relationships; 5.3

Biased-Targeted Libraries: Information-Rich Primary Libraries
5.4 Library Design via Computational ToolsReferences; 6 Synthetic Organic Libraries: Solid-Phase Discrete Libraries; 6.1 Synthesis of Solid-Phase Discrete Libraries; 6.2 Structure Determination, Quality Control, and Purification of Solid-Phase Discrete Libraries; 6.3 Examples of Solid-Phase Discrete Library Synthesis; 6.4 New Trends in Solid-Phase Discrete Library Synthesis; References; 7 Synthetic Organic Libraries: Solid-Phase Pool Libraries; 7.1 Synthesis of Solid-Phase Pool Libraries; 7.2 Direct Structure Determination of Positives from Solid-Phase Pool Libraries
7.3 Deconvolution Methods for Solid-Phase Pool Libraries7.4 Encoding Methods for Solid-Phase Pool Libraries; 7.5 New Trends in Solid-Phase Pool Libraries; References; 8 Synthetic Organic Libraries: Solution-Phase Libraries; 8.1 Solution- Versus Solid-Phase Synthetic Libraries: Which Ones to Use?; 8.2 Solution-Phase Discrete Libraries; 8.3 Purification of Solution-Phase Library Intermediates and Final Compounds: Liquid-Liquid and Solid-Phase Extraction Systems; 8.4 Solid-Phase Assisted Solution-Phase Library Synthesis and Purification
8.5 Soluble Supports in Solution-Phase Combinatorial Synthesis8.6 New Trends in Solution-Phase Combinatorial Synthesis; References; 9 Applications of Synthetic Libraries; 9.1 Pharmaceutical Applications; 9.2 Agrochemical and Food-Related Applications; 9.3 Applications to Combinatorial Reaction Optimization; 9.4 Applications to Catalysis; 9.5 Applications to Molecular Recognition; References; 10 Biosynthetic Combinatorial Libraries; 10.1 Biosynthetic Polypeptide Libraries; 10.2 Biosynthetic Oligonucleotide Libraries; 10.3 Combinatorial Biosynthesis of Natural Products
10.4 Combinatorial Biocatalysis

Sommario/riassunto

A unique, integrated look at solid-phase synthesis and advances in combinatorial chemistry and technologies The last decade has seen a rapid expansion in combinatorial technologies, a field where chemistry disciplines intersect with automation, statistics, and information science, as well as certain biological disciplines. Reflecting these multidisciplinary trends, this new work provides a comprehensive overview of the most important aspects of solid-phase synthesis (SPS), combinatorial chemistry, and related combinatorial technologies. It clearly demonstrates how SPS and combinatoria
