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Nota di contenuto	Cover; Contents; Preface; Acknowledgments; Chapter 1 Introduction; 1.1 Natural Products: Primary and Secondary Metabolites; 1.2 Common Reactions in Secondary Metabolites; 1.2.1 Alkylations; 1.2.2 Wagner-Meerwein Rearrangements; 1.2.3 Aldol and Claisen Reactions; 1.2.4 Schiff Base Formation and Mannich Reactions; 1.2.5 Transaminations; 1.2.6 Decarboxylations; 1.2.7 Oxidation and Reduction Reactions; 1.2.8 Dehalogenation/Halogenation Reactions; 1.2.9 Glycosylation Reactions; References; Chapter 2 Techniques for Biosynthesis; 2.1 Isotopic Labeling; 2.1.1 Stable Isotopes 2.1.2 Radioactive Isotopes2.2 Gene Coding for Enzymes; 2.3 Combinatorial Biosynthesis; References; Chapter 3 Three-Membered Heterocyclic Rings and Their Fused Derivatives; 3.1 Aziridines and Azirines; 3.1.1 Azicemicins; 3.1.2 Miraziridine; 3.1.3 Maduropeptin; 3.1.4 Azinomycins; 3.1.5 Ficellomycin; 3.1.6 Mitomycins; 3.1.7 Azirinomycin and Related Azirines; 3.2 Oxiranes and Oxirenes; 3.2.1 Fosfomycin; 3.2.2 AK, HC, and AF toxins; 3.2.3 Cerulenin; 3.2.4 Polyhydroxyalkanoates; 3.2.5 Epoxyrollins; 3.2.6 Asperlactone, Aspyrone, Asperline; 3.2.7 Tajixanthone; 3.2.8 Cyclomarin; 3.2.9 Cyclophenin

3.2.10 Ovalicin and Fumagillin; 3.2.11 Methylenomycin A; 3.2.12 Antibiotic LL-C10037; 3.2.13 Manumycins; 3.2.14 Scopolamine; 3.2.15 Iridoid Glucosides; 3.2.16 Cordiaquinone; 3.2.17 Cyclizidine and Indolizomycin; 3.2.18 Eneidyne Antibiotics; 3.2.19 Macrolides; 3.2.20 Epothilones; 3.2.21 Pimaricin; 3.2.22 Hypothemycin; 3.2.23 Radicicol and Monocillin I; 3.2.24 Trichothecenes; 3.2.25 Sporolides A and B; References; Chapter 4 Four-Membered Heterocyclic Rings and Their Fused Derivatives; 4.1 Azetidine and Azetines; 4.1.1 Azetidine-2-carboxylic acid; 4.1.2 Polyoxins; 4.1.3 Mugineic Acids; 4.1.4 Tabtoxin and Tabtoxinine--lactam; 4.1.5 Nocardicins; 4.1.6 Thienamycin; 4.1.7 Clavulanic Acid and Clavams; 4.1.8 Penicillins and Cephalosporins; 4.2 Oxetanes; 4.2.1 Oxetanocins; 4.2.2 Salinosporamides; 4.2.3 Taxol; 4.3 Dithiethanes; 4.3.1 Tropodithietic acid and Thiotropocin; References; Chapter 5 Five-Membered Heterocyclic Rings and Their Fused Derivatives; 5.1 Pyrroles (Including Tetrapyrroles); 5.1.1 2-Acetyl-1-pyrroline; 5.1.2 Pyrrolnitrin; 5.1.3 Broussonetines; 5.1.4 Prodigiosin and Undecylprodigiosin; 5.1.5 Anatoxin-a and Homoanatoxin-a; 5.1.6 Nostopeptolides A; 5.1.7 Pyrrolizidine Alkaloids; 5.1.8 Toyocamycin and Sangivamycin; 5.1.9 Tetrapyrroles; 5.2 Indoles; 5.2.1 Indole-3-acetic acid and Glucobrassicin; 5.2.2 Camalexin; 5.2.3 Cyclomarazines; 5.2.4 Rebeccamycin and Staurosporine; 5.2.5 Paxilline; 5.3 Furans; 5.3.1 Furanomycin; 5.3.2 Xenofuranones A and B; 5.3.3 Acyl - L-Rhamnopyranosides and Rhamnosyllactones; 5.3.4 Tuscolid and Tuscoron A and B; 5.3.5 Tetronomycin and Tetronasin; 5.3.6 Nonactin and Macrotetrolides; 5.3.7 Furanonaphthoquinone I; 5.4 Thiophenes; 5.5 Pyrazoles; 5.6 Imidazoles; 5.6.1 Histidine; 5.6.2 Amaranzole A; 5.6.3 Oroidin; 5.6.4 Nikkomycins

Sommario/riassunto

This book describes biosynthetic methods to synthesize heterocyclic compounds, offering a guide for the development of new drugs based on natural products. The authors explain the role of natural products in chemistry and their formation along with important analytical methods and techniques for working with heterocycles. Covers methods and techniques: isotopic labelling, enzymes and mutants, and pathway identification. Provides a thorough resource of information specifically on heterocyclic natural products and their practical biosynthetic relevance. Explains the role of natural products in chemistry.

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