1. Record Nr. UNINA9911020267303321

Autore	Yu Biao
Titolo	Carbohydrate Chemistry in the Total Synthesis of Naturally Occurring Glycosides
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
ISBN	9783527817900 3527817905 9783527817924 3527817921 9783527817894 3527817891
Edizione	[1st ed.]
Descrizione fisica	1 online resource (300 pages)
Altri autori (Persone)	YangXiaoyu
Soggetti	Glycosides Carbohydrates
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface -- List of Abbreviations -- Chapter 1 Introduction -- References -- Chapter 2 Aromatic Polyketide Glycosides -- Landomycin A -- Olivomycin A -- Ciclamycin -- Vineomycin B2 -- Trioxacarcin -- Daunorubicin -- Aquayamycin -- Vineomycin A1 -- Derhodinosylurdamycin A -- Jadomycins -- Tan1085 -- Benanomicins and Pradimicins -- Pluramycins -- Marmycins -- Cassialoin -- FD594 -- Calixanthomycin A -- Lactonamycin -- Lomaiviticin A() -- References -- Chapter 3 Enediyne Glycosides -- Calicheamicin 1I -- Namenamicin -- Shishijimicin A -- Neocarzinostatin Chromophore -- Maduropeptin Chromophore -- References -- Chapter 4 Flavonoid Glycosides -- Flavonol 3Oglycosides -- Quercetin 3sophorotrioside -- SL0101 -- Flavone and Isoflavone 7OGlycosides -- A76202 -- Flavonol 3O and 7OBisglycosides -- Kaempferitrin -- Flavonol 5OGlycosides -- Camellianin B -- Flavone 6CGlycosides -- Chafurosides -- Cyanidin 3 OGlycosides -- Cyanidin 3Odglucoside -- Other Examples --

Quercetin 3OdGlucuronide -- Quercetin 3O(2Galloyl)l arabinopyranoside -- Isoquercitrin Coumarate -- Kaempferol 3O(3, 6diOEpcoumaroyl)dGlucopyranoside -- Platanoside -- Quercetin3Otrisaccharide 79 -- Houttuynoid A -- Daidzin, Genistin, Ononin, and Sissotrin -- Apigenin 7OCellobioside -- Suttellarin -- Calabricoside A -- Kaempferol3O7Obisglycoside 88 -- Vicenines -- Carambolaflavone A -- Flavocommeline -- Schaftoside -- Pelargonidin 3O6Oacetyldglucopyranoside -- Cyanidin 4Omethyl3O glucoside -- References -- Chapter 5 Macrolide Glycosides -- Erythromycin -- Apoptolidin A -- Spinosyn A (Lepicidin A) -- Tiacumicin B -- Pikromycin -- Polycavernoside A -- Auriside A -- Lyngbyaloside B -- Avermectin -- Formamicin -- Tylosin -- Mangrolide -- Amphotericin B -- Aldgamycins -- Mycinamicin IV. References -- Chapter 6 Nucleosides -- Tunicamycin -- Hikizimycin -- Herbicidins -- A201A -- Amipurimycin -- Caprazamycin -- Polyoxin J -- Octosyl Acid A -- HF7 -- Malayamycin -- Capuramycin -- Muraymycin -- Plicacetin, Streptcytosine A, and Amicetin -- A94964 -- Miharamycin B -- References -- Chapter 7 Peptide Glycosides -- Vancomycin -- Bleomycin A2 -- Mannopeptimycin -- Syndecan -- Lipoglycopeptide Arylomycin -- References -- Chapter 8 Resin Glycosides -- Calonyctin A -- Tricolorin -- Ipomoeassin -- Woodrosin I -- Batatosides L -- Batatin VI -- Merremoside D -- Murucoidins -- References -- Chapter 9 Steroid Glycosides -- Cholestane Type Steroid Glycosides -- OSW1 -- Periploside A -- Luzonicosides and Sepositoside -- Cardenolide Type Steroid Glycosides -- Digitoxin -- Furostane Type Steroid Glycosides -- Furostan Saponin and Methyl Protodioscin -- Spirostan Type Steroid Glycosides -- Desgalactotigonin -- Forbeside E -- Osladin -- Pavonimin -- Dioscin -- Polyphyllin D -- Maidong Saponin C -- Xiebai Saponin I -- Candicanoside A -- Ouabain -- Timosaponin BII -- Solamargine -- Rhodexins -- Goniopectenoside B -- Astrosterioside A -- Linckoside -- Trewianin -- P57 -- Oleandrin -- References -- Chapter 10 Triterpenoid Glycosides -- Ciwujianoside C3 -- QS21 -- Lobatoside E -- Ginsenosides -- Echinoside A -- Anemoclemoside B -- Betavugaroside III -- 20Ginsenosides -- Flaccidoside II -- Asiaticoside -- Pulsatilla Saponin D -- Lotoidoside D -- Astragalosides -- Chikusetsu Saponins -- References -- Chapter 11 Miscellaneous Glycosides -- Allosamidin -- Staurosporine -- Everninomicin 13,3841 -- Brasilicardins -- Efrotomycin -- Peyssonoside A -- Amycolamicin/Kibdelomycin -- StrictosidineType Indole Alkaloid Glycosides -- Cotylenin A -- Pyrolaside B -- References -- Index -- EULA.

Sommario/riassunto

This book, authored by Biao Yu and Xiaoyu Yang, provides a comprehensive exploration of the role of carbohydrate chemistry in the total synthesis of naturally occurring glycosides. It delves into various categories of natural products, including polyketides, steroids, triterpenes, flavonoids, alkaloids, peptides, and lipids, emphasizing their significance as signaling and defense agents in plants and animals. The text highlights the chemical synthesis of glycosides, discussing different synthetic strategies and the importance of glycosidic linkage construction. The book is intended for an audience interested in organic chemistry and natural product synthesis, offering insights into the development and pharmacological potential of these compounds.