

1. Record Nr.	UNINA9910144298703321
Autore	Breitmaier Eberhard <1939->
Titolo	Terpenes : flavors, fragrances, pharmaca, pheromones // Eberhard Breitmaier
Pubbl/distr/stampa	Weinheim, Germany : , : Wiley-VCH, , [2006] ©2006
ISBN	1-280-72297-5 9786610722976 3-527-60994-6 3-527-60910-5
Descrizione fisica	1 online resource (226 p.)
Disciplina	547.71
Soggetti	Terpenes Monoterpenes
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	Terpenes; Contents; Preface; 1 Terpenes: Importance, General Structure, and Biosynthesis; 1.1 Term and Significance; 1.2 General Structure: The Isoprene Rule; 1.3 Biosynthesis; 2 Hemi- and Monoterpenes; 2.1 Hemiterpenes; 2.2 Acyclic Monoterpenes; 2.3 Monocyclic Monoterpenes; 2.3.1 Cyclopropane and Cyclobutane Monoterpenes; 2.3.2 Cyclopentane Monoterpenes; 2.3.3 Cyclohexane Monoterpenes; 2.3.4 Cymenes; 2.4 Bicyclic Monoterpenes; 2.4.1 Survey; 2.4.2 Caranes and Thujanes; 2.4.3 Pinanes; 2.4.4 Camphanes and Fenchanes; 2.5 Cannabinoids; 3 Sesquiterpenes; 3.1 Farnesanes 3.2 Monocyclic Farnesane Sesquiterpenes 3.2.1 Cyclofarnesanes and Bisabolanes; 3.2.2 Germacranes and Elemenes; 3.2.3 Humulanes; 3.3 Polycyclic Farnesane Sesquiterpenes; 3.3.1 Caryophyllanes; 3.3.2 Eudesmanes and Furanoeudesmanes; 3.3.3 Eremophilanes, Furanoeremophilanes, Valeranes; 3.3.4 Cadinanes; 3.3.5 Drimanes; 3.3.6 Guaianes and Cycloguaianes; 3.3.7 Himachalanes, Longipinanes, Longifolanes; 3.3.8 Picrotoxanes; 3.3.9 Isodaucanes and Daucanes; 3.3.10 Protoilludanes, Illudanes, Illudalanes; 3.3.11 Marasmanes, Isolactaranes, Lactaranes, Sterpuranes; 3.3.12 Acoranes; 3.3.13

Chamigranes

3.3.14 Cedranes and Isocedranes 3.3.15 Zizaanes and Prezizaanes;
3.3.16 Campherenanes and Santalanes; 3.3.17 Thujopsanes; 3.3.18
Hirsutanes; 3.4 Other Polycyclic Sesquiterpenes; 3.4.1 Pinguisanes;
3.4.2 Presilphiperfolianes, Silphiperfolianes, Silphinanes, Isocomanes; 4
Diterpenes; 4.1 Phytanes; 4.2 Cyclophytanes; 4.3 Bicyclophytanes;
4.3.1 Labdanes; 4.3.2 Rearranged Labdanes; 4.4 Tricyclophytanes;
4.4.1 Pimaranes and Isopimaranes; 4.4.2 Cassanes, Cleistanthanes,
Isocopalanes; 4.4.3 Abietanes and Totaranes; 4.5 Tetracyclophytanes;
4.5.1 Survey; 4.5.2 Beyeranes; 4.5.3 Kauranes and Villanovanes
4.5.4 Atisanes 4.5.5 Gibberellanes; 4.5.6 Grayanotoxanes; 4.6
Cembranes and Cyclocembranes; 4.6.1 Survey; 4.6.2 Cembranes; 4.6.3
Casbanes; 4.6.4 Lathyranes; 4.6.5 Jatrophanes; 4.6.6 Tiglianes; 4.6.7
Rhamnofolanes and Daphnanes; 4.6.8 Eunicellanes and Asbestinanes;
4.6.9 Biaranes; 4.6.10 Dolabellanes; 4.6.11 Dolastanes; 4.6.12
Fusicoccanes; 4.6.13 Verticillanes and Taxanes; 4.6.14 Trinervitanes
and Kempanes; 4.7 Prenylsesquiterpenes; 4.7.1 Xenicanes and
Xeniaphyllanes; 4.7.2 Prenylgermacranes and Lobanes; 4.7.3
Prenyleudesmanes and Bifloranes; 4.7.4 Sacculatanes (Prenyltrimanes)
4.7.5 Prenylguaianes and Prenylaromadendranes 4.7.6 Sphenolobanes
(Prenylidaucanes); 4.8 Ginkgolides; 5 Sesterterpenes; 5.1 Acyclic
Sesterterpenes; 5.2 Monocyclic Sesterterpenes; 5.3 Polycyclic
Sesterterpenes; 5.3.1 Bicyclic Sesterterpenes; 5.3.2 Tricyclic
Sesterterpenes; 5.3.3 Tetra- and Pentacyclic Sesterterpenes; 6
Triterpenes; 6.1 Linear Triterpenes; 6.2 Tetracyclic Triterpenes, Gonane
Type; 6.2.1 Survey; 6.2.2 Protostanes and Fusidanes; 6.2.3
Dammaranes; 6.2.4 Apotirucallanes; 6.2.5 Tirucallanes and Euphanes;
6.2.6 Lanostanes; 6.2.7 Cycloartanes; 6.2.8 Cucurbitanes
6.3 Pentacyclic Triterpenes, Baccharane Type

Sommario/riassunto

This concise overview of the structures of terpenes and their applications covers both the structure, natural sources, biological and pharmacological effects, as well as selected total syntheses. This book includes a chapter on structure determination, as well as added information on biogenesis, polycyclic terpenes, ginkgoloids and neohopanes. An ideal introductory book for anybody starting work in this field.
