

1. Record Nr.	UNINA9910139044703321
Titolo	Medicinal plant research in Africa [[electronic resource]] : pharmacology and chemistry // edited by Victor Kuete
Pubbl/distr/stampa	London, : Elsevier, 2013
ISBN	0-323-28291-1 0-12-405936-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (917 p.)
Collana	Elsevier insights
Altri autori (Persone)	KueteVictor
Disciplina	615.321096
Soggetti	Medicinal plants - Research - Africa Botany, Medical - Research - Africa Materia medica, Vegetable - Research - Africa Electronic books.
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.
Nota di contenuto	Front Cover; Medicinal Plant Research in Africa; Copyright Page; Contents; About the Editor; Preface; List of Contributors; 1 Monoterpenes and Related Compounds from the Medicinal Plants of Africa; 1.1 Introduction; 1.2 Biosynthesis and Structural Diversity; 1.2.1 Biosynthetic Pathways; 1.2.1.1 Isoprene Rule; 1.2.1.2 Acyclic Compounds and Cyclohexane Derivatives; 1.2.1.2.1 Hypotheses; 1.2.1.3 Cyclopentane Derivatives; 1.2.1.3.1 General; 1.2.1.3.2 Other Iridoids and Related Compounds; 1.2.1.3.3 Indole Alkaloid; 1.2.1.3.4 Irregular Structures 1.3 Monoterpenes Isolated from African Medicinal Plants and Their Pharmacological Activities1.4 New Monoterpenes Isolated in African Medicinal Plants; 1.5 Other Monoterpenes in African Medicinal Plants; 1.6 Conclusion; References; 2 Sesquiterpenes from the Medicinal Plants of Africa; 2.1 Introduction; 2.1.1 Detection of Sesquiterpenes in Plant Extracts; 2.1.2 Basic Skeletons and Nomenclature of Sesquiterpenes; 2.1.3 Known Pharmacological Activities of Sesquiterpenes; 2.2 Biosynthesis and Structural Diversity 2.3 Pharmacological Activities of Sesquiterpenes Isolated from African Medicinal Plants2.3.1 Antimicrobial Activity of Sesquiterpenes Identified

in African Medicinal Plants; 2.3.2 Antiplasmodial Activity and Cytotoxicity of Sesquiterpenes Identified in African Medicinal Plants; 2.3.3 Other Activities of Sesquiterpenes Isolated from African Medicinal Plants; 2.4 New Sesquiterpenes Isolated from Medicinal Plants of Africa; 2.5 Other Sesquiterpenes in Medicinal Plants of Africa; 2.6 Conclusion; References; 3 Diterpenoids from the Medicinal Plants of Africa; 3.1 Introduction
3.2 Biosynthesis and Structural Diversity
3.3 Nomenclature and Identification of Diterpenoids; 3.3.1 Nomenclature of Diterpenoids; 3.3.2 Identification of Diterpenoids; 3.4 Pharmacological Activities of Diterpenoids Isolated from African Medicinal Plants; 3.4.1 Structural Diversities of Diterpenoids Isolated from African Medicinal Plants; 3.4.2 Antimicrobial Activities of Diterpenes Identified in African Medicinal Plants; 3.4.3 Cytotoxicity of Diterpenes Identified in African Medicinal Plants; 3.4.4 Other Diterpenoids from African Medicinal Plants; 3.5 Conclusions; References
4 Triterpenes and Steroids from the Medicinal Plants of Africa
4.1 Introduction; 4.2 Biosynthesis and Structural Diversity; 4.3 Phytochemical Detection of Triterpenoids and NMR Identification; 4.3.1 Phytochemical Identification; 4.3.2 NMR Identification; 4.4 Nomenclature of Triterpenoids; 4.5 New Triterpenoids Isolated from African Medicinal Plants; 4.5.1 Triterpenes Isolated from African Medicinal Plants; 4.5.2 New Limonoids and Quassinoids Obtained from African Medicinal Plants; 4.5.3 New Steroids Isolated from African Medicinal Plants
4.5.4 New Saponins Isolated from African Medicinal Plants

Sommario/riassunto

The pharmacopoeias of most African countries are available and contain an impressive number of medicinal plants used for various therapeutic purposes. Many African scholars have distinguished themselves in the fields of organic chemistry, pharmacology, and pharmacognosy and other areas related to the study of plant medicinal plants. However, until now, there is no global standard book on the nature and specificity of chemicals isolated in African medicinal plants, as well as a book bringing together and discussing the main bioactive metabolites of these plants. This book explores the essenc
