1. Record Nr. UNINA9910872189903321

Autore	Izah Sylvester Chibueze
Titolo	Herbal Medicine Phytochemistry : Applications and Trends / / edited by Sylvester Chibueze Izah, Matthew Chidozie Ogwu, Muhammad Akram
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	9783031431999
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (2211 pages)
Collana	Reference Series in Phytochemistry, , 2511-8358
Altri autori (Persone)	OgwuMatthew Chidozie AkramMuhammad
Disciplina	572.21634
Soggetti	Botanical chemistry Biochemistry Natural products Pharmaceutical chemistry Botany Analytical chemistry Plant Biochemistry Natural Products Medicinal Chemistry Plant Science Bioanalytical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Historical Perspectives and Overview of the Value of Herbal Medicine -- Phytochemistry and Herbal Medicine -- Plant Food For Human Health: Case Study of Indigenous Vegtables in Akwa Ibom State, Nigeria -- Classification Methods and Diversity of Medicinal Plant -- Classification of Phytochemicals in Plants with Herbal Value -- Cola accuminata: Phytochemical Constituents, Nutritional Characteristics, Scientific Validated Pharmacological Properties, Ethnomedicinal Uses, Safety Considerations and Commercial Values -- Citrus aurantium: Phytochemistry, Therapeutic Potential, Safety Considerations and Research Needs -- etc.

Sommario/riassunto

This book offers a comprehensive perspective of herbal medicine phytochemistry and explores the application of plant extracts as bioactive compounds in disease prevention and treatment in modern or traditional medicine. The book starts with an introduction to the history and value of herbal medicine, followed by 3 parts covering the main phytochemical components and metabolites in herbal medicine, different uses and practices in herbal medicine, including a region-wise analysis of methods and practices and an overview of regulations and policies for herbal medicinal practitioners, and the advances and challenges in quality assessment of herbal medicine. Plants generally have the tendency to bioaccumulate trace metals from the environment and they are easily contaminated by microorganisms from water sources and poor hygiene practices of the herbalist. Quality assessment and assurance is, thus, a pertinent challenge in herbal medicine practice (i.e., in remedy formulation and application), and this book offers an authoritative perspective on this topic, covering aspects such as quality control strategies, preparation techniques, chemical quantification in phytomedicine, and the efficacy and safety of herbal remedies. Moreover, in this book, readers will find valuable insights into the latest trends and developments in the field, and a critical review of the application of medicinal plants to treat cardiovascular, digestive, respiratory neurological and reproductive diseases. Particular attention is given to the advances and trends in the field, and readers will learn about the latest biotechnological approaches, the use of nanotechnology in herbal medicine, metabolomic analysis of medicinal plants, big data application in herbal medicine, and the value of herbal medicine towards sustainability. Given its breadth, this book is aimed at researchers, academics, practitioners and professionals working in the fields of natural, life, health, clinical, and biomedical sciences, and interested in herbal remedies, pharmacology, pharmacognosy, human nutrition and dietetics, plant biology, and biotechnology/microbiology.