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| ISBN                    | 1-118-96191-9<br>1-118-96192-7<br>1-118-96193-5  |
| Descrizione fisica      | 1 online resource (595 pages) : color illustrations, photographs   |
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| Disciplina              | 581.61   |
| Soggetti                | Ethnobotany<br>Medicinal plants  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and indexes.   |
| Nota di contenuto       | Part I: Introduction to Ethnobotany and Phytochemistry; 1 Ethnobotany; Key Terms and Concepts; Ethnobotany throughout History; References and Additional Reading; Current Topics in Ethnobotany; References; Taxonomy: Plant Families; References and Additional Reading; Plant Anatomy and Architecture: The Highlights; References and Additional Reading; Keys for Plant Identification Herbaria, Plant Collection, and Voucher Specimens References and Additional Reading / B. M. Schmidt<br>2 Phytochemistry; Primary and Secondary Metabolites; Databases; References and Additional Reading; Extraction and Chromatographic Techniques; References; Evaluation of Biological Activities; References;<br>Part II: Case Studies / D. M. Klaser Cheng<br>3 Introduction; 4 Africa; Introduction; Northern Africa; Southern Africa; The African Diaspora; References and Additional Reading; Achillea millefolium : Re Exploring Herbal Remedies for Combating Malaria; References; Vanilla: Madagascar's Orchid Economy; References Traditional Treatments for HIV in South Africa References; Duckweed as a More Sustainable First Generation Bioethanol Feedstock; References / M. H. Grace [and 5 others]<br>5 The Americas; Introduction; North America; Central America and the Caribbean; South America; References and Additional Reading; |

Phlorotannins in Seaweed; References; Agave: More Than Just Tequila; References; Quinoa: A Source of Human Sustenance and Endurance in the High Andes; References; Maqui (*Aristotelia chilensis*): An Ancient Mapuche Medicine with Antidiabetic Potential; References Betalains from *Chenopodium quinoa*: Andean Natural Dyes with Industrial Uses beyond Food and MedicineReferences / J. Kellogg [and and 9 others] 6 Asia; Introduction; Central Asia; Western Asia; South Asia; Southeast Asia; East Asia; References and Additional Reading; Ethnobotany of Dai People's Festival Cake in Southwest China; References; The Ethnobotany of Teeth Blackening in Southeast Asia; References; *Artemisia* Species and Human Health; References; Traditional Treatment of Jaundice in Manipur, Northeast India; References Ethnobotany and Phytochemistry of Sacred Plant Species *Betula utilis* (*bhojpatra*) and *Quercus oblongata* (*banj*) from Uttarakhand Himalaya, India References; Neem Based Insecticides; References / P. Li [and 11 others] 7 Europe; Introduction; References and Additional Reading; Differential Use of *Lavandula stoechas* L. among Anatolian People against Metabolic Disorders; References; Mad Honey; References; Indigo: The Devil's Dye and the American Revolution; References; Insecticides Based on Plant Essential Oils; References / T. B. Tumer, B. M. Schmidt and M. Isman 8 Oceania; Introduction; References and Additional Reading / B. M. Schmidt.

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### Sommario/riassunto

"Ethnobotany: A Phytochemical Perspective explores the chemistry behind hundreds of plant medicines, dyes, fibers, flavors, poisons, insect repellants, and many other uses of botanicals. Bridging the gap between ethnobotany and chemistry, this book presents an introduction to botany, ethnobotany, and phytochemistry to clearly join these fields of study and highlight their importance in the discovery of botanical uses in modern industry and research. Part I. Ethnobotany, explores the history of plant exploration, current issues such as conservation and intellectual property rights, and a review of plant anatomy. An extensive section on plant taxonomy highlights particularly influential and economically important plants from across the plant kingdom. Part II. Phytochemistry, provides fundamentals of secondary metabolism, includes line drawings of biosynthetic pathways and chemical structures, and describes traditional and modern methods of plant extraction and analysis. The last section is devoted to the history of native plants and people and case studies on plants that changed the course of human history from five geographical regions: Africa, the Americas, Asia, Europe, and Ocean. Throughout the entire book, vivid color photographs bring science to life, capturing the essence of human botanical knowledge and the beauty of the plant kingdom"--Provided by publisher.

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