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5.3 Medicinal and aromatic plants as resources5.4 How many species?; 5.5 Chemical diversity; 5.6 Wild harvesting and over-collection; 5.7 Medicinal plant conservation; 5.8 Conservation approaches; 5.9 Protected areas; 5.10 Community conservation; 5.11 Genetic conservation; 5.12 Cultivation; 5.13 Conclusions; References; Chapter 6 Ecopharmacognosy; 6.1 Introduction; 6.2 Sustainable medicines and pharmacognosy; 6.3 Ecopharmacognosy: background; 6.4 Ecopharmacognosy practices; 6.4.1 Replacement plant parts; 6.4.2 Vegetables as chemical reagents
6.4.3 The 'Medicine Man' approach and remote sensing6.4.4 Dereplication; 6.4.5 In silico evaluation of natural products; 6.4.6 Biosynthesis of secondary metabolites; 6.4.7 Complex traditional medicines; 6.4.8 Network pharmacology; 6.4.9 Can ecopharmacognosy change the dark side of traditional medicine?; 6.5 Conclusions; Acknowledgements; References; Chapter 7 NMR-based Metabolomics and Hyphenated NMR Techniques: A Perfect Match in Natural Products Research; 7.1 Introduction; 7.2 Metabolomics; 7.3 Principles of NMR-based metabolomics; 7.4 NMR-based metabolomics in natural products research
7.5 Hyphenated NMR techniques

Sommario/riassunto

"Ethnopharmacology is one of the world's fastest-growing scientific disciplines encompassing a diverse range of subjects. It links natural sciences research on medicinal, aromatic and toxic plants with socio-cultural studies and has often been associated with the development of new drugs. The Editors of Ethnopharmacology have assembled an international team of renowned contributors to provide a critical synthesis of the substantial body of new knowledge and evidence on the subject that has emerged over the past decade. Divided into three parts, the book begins with an overview of the subject including a brief history, ethnopharmacological methods, the role of intellectual property protection, key analytical approaches, the role of ethnopharmacology in primary/secondary education and links to biodiversity and ecological research. Part two looks at ethnopharmacological contributions to modern therapeutics across a range of conditions including CNS disorders, cancer, bone and joint health and parasitic diseases. The final part is devoted to regional perspectives covering all continents, providing a state-of-the-art assessment of the status of ethnopharmacological research globally. A comprehensive, critical synthesis of the latest developments in ethnopharmacology; Includes a section devoted to ethnopharmacological contributions to modern therapeutics across a range of conditions; Contributions are from leading international experts in the field. This timely book will prove invaluable for researchers and students across a range of subjects including ethnopharmacology, ethnobotany, medicinal plant research and natural products research"--Page 4 of cover.
