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ISBN	3-031-23243-7
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I Bryophytes: Bioactive Compounds from Bryophytes -- Therapeutic Potential of Bryophytes and Its Future Perspective -- Volatile Compounds and Oils from Mosses and Liverworts -- Anticancerous Compounds from Bryophytes: Recent Advances with

Special Emphasis on Bis(bi)benzyls -- Immunomodulatory Potential of *Hedwigia ciliata* and *Hypnum cupressiforme* -- Extracts from the Liverwort *Bazzania trilobata* with Potential Dermo-Cosmetic Properties -- Bryophytes as an Accumulator of Toxic Elements from the Environment: Recent Advances -- Part II Pteridophytes: Bioactive Compounds of Pteridophytes -- Anticancer Properties of Pteridophytes and Derived Compounds: Pharmacological Perspectives and Medicinal Use -- On the Bioactive Potential of Ferns: An Overview -- Fern Fatty Acids: From Diversity to Dietary Value -- Ferns and Lycophytes with Insecticidal Activity: An Overview -- Phytochemicals from the Pteridaceae Family and Their Prospects as Future Drugs -- Phytochemicals and Their Bioactivity from Plants of Dryopteridaceae Family -- Bioactive Compounds and Biological Activities of *Dipteris wallichii* -- Bioactive Compounds and Biological Activities of Cyathea Species -- Phytochemicals of *Adiantum capillus-veneris* -- Phytochemicals and Biological Activities of *Stenochlaena palustris* -- Allelochemicals From *Pteridium arachnoideum* -- Bioactive Compounds in *Polypodium vulgare* L. (Polypodiaceae) -- Phytochemicals and Biological Activities of *Asplenium ceterach* -- Part III Applications of Bryophytes and Pteridophytes in the Fields of Biotechnology, Nanotechnology and Allied Fields: Bryophytes and the Nanotechnology: Recent Developments and Perspectives -- Biotechnology Investigations in Bryophytes and Pteridophytes -- Ecometabolomics Studies of Bryophytes -- Physiological Ecology of Ferns -- Extracts and Composites of *Equisetum* for Bone Regeneration -- Pteridophytes as Ecological Indicators in Legislation: A Case Study in Southern Brazil.-.

#### Sommario/riassunto

This reference work provides a comprehensive overview of bioactive compounds investigated in bryophytes and pteridophytes and explores their nutritional, biological, pharmacological and ecological effects. Bryophytes are cosmopolitan lower plants that are rich in phytochemicals including fatty acids, tocopherols, phenolics, terpenoids. Additionally, these plants contain bibenzyls, bis-benzyls, and polyketides which have been demonstrated to have antimicrobial, anti-inflammatory, and cytotoxic activities. Pteridophytes are another group of lower vascular plants which were reported to have useful secondary compounds such as flavonoids, steroids, phenolics, terpenoids, and these plants impart medicinal values including antioxidant, antimicrobial, anti-inflammatory, anti-tumor, and anti-HIV activities. This book contains comprehensive contributions compiled by expert scientists and researchers in this field. The book offers a useful resource for plant biotechnologists, plant biologists, pharmacologists, pharmacists, food technologists, nutritionists, research investigators of the healthcare industry, academia, faculty, and students of biology and biomedical sciences. It also provides a strategic framework for further research and development activities of bryophytes and pteridophytes of the world. .