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Nota di contenuto	Part I: Biogeography, Biodiversity & Environmental Factors: The Role of Ecological Factors in Distribution and Abundance of Terrestrial Orchids; - Which Environmental Factors Drive Distribution of Orchids? A Case Study from South Bohemia, Czech Republic;- Diversity, Ecology, and Conservation of Mauritius Orchids;- Diversity of Orchids from Continental Sub-Saharan Africa; -Orchid Biodiversity and Genetics;- Part II: Biology: Orchid-Associated Bacteria and Their Plant Growth Promotion Capabilities;- Mycorrhiza in Orchids;- Phytoalexins in Orchids;- Part III: Horticulture: Micropropagation of Some Orchids and the Use of Cryopreservation; -Cymbidium: Botany, Production, and Uses;- Biotechnology Approaches on Characterization, Mass Propagation, and Breeding of Indonesian Orchids Dendrobium lineale (Rolfe.) and Vanda tricolor (Lindl.) with Its Phytochemistry;- Preferences of Orchid Consumers and the Substitute Products' Influences;- Part IV: Agri-Food Applications: Vanilla: Culture, Reproduction, Phytochemistry, Curing, Pest, and Diseases;- Vanillin: Biosynthesis, Biotechnology, and Bioproduction Part V: Phytochemistry and Medicinal Properties: Ethnobotany and Recent Advances in Indian Medicinal Orchids;- Traditionally Used Medicinal Dendrobium: A Promising Source of Active Anticancer Constituents; -A Review on Phytochemistry, Nutritional Potential,

Pharmacology, and Conservation of *Malaxis acuminata*: An Orchid with Rejuvenating and Vitality Strengthening Properties; -Phytochemistry, Pharmacology, and Conservation of *Ansellia africana*: A Vulnerable Medicinal Orchid of Africa;-*Dendrobium* sp.: In vitro Propagation of Genetically Stable Plants and Ethno-medicinal Uses;- *Eulophia* spp.: In vitro Generation, Chemical Constituents and Pharmacological Activities; - *Cyrtopodium glutiniferum*, an Example of Orchid Used in Folk Medicine: Phytochemical and Biological Aspects;- Phenanthrenes from Orchidaceae and Their Biological Activities;-Orchids of Genus *Bletilla*: Traditional Uses, Phytochemistry, Bioactivities, and Commercial Importance;- Orchids of Genus *Vanda*:Traditional Uses, Phytochemistry, Bioactivities and Commercial Importance;- Part VI: Cosmetic Applications: Orchid Extracts and Cosmetic Benefits;- Orchids from Basilicata: The Scent

Sommario/riassunto

This reference work provides an authoritative and comprehensive review of the latest developments in orchids' biology, biotechnology and phytochemistry, and it also explores the applications of orchids in medicinal chemistry, nutrition and cosmetics industry. Chapters from expert contributors are organised into six sections and cover the entire gamut of orchid research and uses. In this work, readers will learn about topics such as biogeography and diversity of orchids, their biology and environmental factors, their horticulture and phytochemistry, and their use in agri-food, medicinal and perfumery industries. This book will appeal to graduate students, scholars, researchers interested in botany, agriculture, pharmacy, biotechnology and phytochemistry. Industrial scientists and those involved in marketing flowers and phytochemicals, plants and their extracts will also understand the importance of this reference work.
