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| Nota di contenuto       | Chapter 1. Beauty, Diversity and Potential Uses of Certain Macrofungi -- Chapter 2. Therapeutic Potential of Medicinal Mushrooms : Insights into its Use against Covid-19 -- Chapter 3. Recent advances in the discovery of bioactive metabolites from Xylaria Hill ex Schrank -- Chapter 4. Wild Medical Macrofungi in Montenegro: Diversity, Distribution, Ecology and Uses -- Chapter 5. Health Promoting and Pharmacological Compounds from Mushrooms -- Chapter 6. The nutritional and pharmacological potential of medicinal mushroom "Ganoderma lucidum (Lingzhi or Reishi)" -- Chapter 7. Anti-aging Properties of Medicinal Mushrooms in Systemic Aesthetic Medicine -- Chapter 8. Diversity, Chemistry and Environmental Contamination of Wild Growing Medicinal Mushroom Species as Sources of Biologically Active Substances (Antioxidants, Antidiabetics and AChE Inhibitors) -- Chapter 9. Edible and Medicinal Mushrooms: Some Aspects and Prospects -- Chapter 10. Truffles: The Cultivation and Health Benefits -- Chapter 11. Auricularia spp.: From farm to pharmacy -- Chapter 12. Therapeutic Potential of Mushroom Bioactive Nutraceuticals -- Chapter 13. Potential Uses of Mushrooms as Dietary Supplement to Enhance Memory -- Chapter 14. Beauty, Diversity and Utility of Mushrooms on |

Postage Stamps -- Chapter 15. Citizen for Mushrooms -- Chapter 16. Mushroom Biotechnology: Developing Cultivation Protocol for Four different Mushrooms and Accessing their potential in Pollution Management -- Chapter 17. The Tolimas and The Mushroom: Mycolatry in Prehispanic Colombia -- Chapter 18. Lignocellulosic Waste Management through Cultivation of Certain commercially useful and Medicinal Mushrooms -- Chapter 19. Selective and Simultaneous Delignification Capacity of Wood decay Fungi *Trametes pini* in *Tectona grandis* L. f. and *Terminalia crenulata* (Heyne) Roth -- Chapter 20. Biological and Ecological Aspects of Rare Bioluminescent Mushrooms -- Chapter 21. Cultivation of Two Edible Mushrooms and Need for Training of Mushroom Production Technology to Enhance Rural Economy -- Chapter 22. Cultivation and Medicinal Uses of *Cordyceps militaris* (L.) Link : A Revolutionary Entomopathogenic Fungus -- Chapter 23. Cultivation Technology of the Fungus *Ganoderma lucidum* (Curtis) P. Karst -- Chapter 24. Problems of Fungal Contaminants and Cultivation Strategies of Certain Medicinal Mushrooms -- Chapter 25. Biochemical Aspects and Cultivation of Medicinal Mushroom *Pleurotus florida* on Cellulosic waste of Cotton and Paper.

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### Sommario/riassunto

The edited book consolidates information for profitable commercial cultivation of medicinal mushrooms. The book suggests a large number of substrates to the growers for use in commercial cultivation of Mushrooms. It also elucidates the conservation of wild endangered medicinal mushrooms. Mushrooms are the fungal fruiting bodies which can be seen by naked eyes and collected by hands. These are extremely heterogeneous organisms characterized by high levels of species diversity and are widespread in all environments. Researches conducted by score of mycologists and biotechnologists, have resulted in the continuous discovery of new species and the variability of environments where fungi can be harvested, including air, space the seabed. The fields of applications are unfolding a panorama of uses in varied fields, ranging from agriculture, bioremediation, forestry, food, cosmetics, medical, and in pharmaceutical sectors. The book comprises of three parts, first mentions their applications in Ayurvedic and traditional system of Chinese medicine for the cure of ailments. The truffles are delicious, while many others are recommended, as cure in deadly diseases like cancer, COVID-19, and HIV, as well as memory and longevity enhancer. *Lentinus*, *Ganoderma*, and *Cordyceps* are considered good as antioxidant and cure for inflammation. Second part deals with their occurrence in different habitats and seasons and their biology. Enzymes and mechanisms involved in biodegradation and anatomical details of rotting wood. The third part brings about the need of mushroom technology in improving rural economy. This book is a useful read for researchers and students in agriculture, agronomy and researchers working on mushrooms.

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