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Descrizione fisica	1 online resource (361 pages)
Collana	Advances in Biochemical Engineering/Biotechnology, , 1616-8542
Altri autori (Persone)	BerovicM (Marin) ZhongJian-Jiang
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Lingua di pubblicazione	Inglese
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Nota di contenuto	Medicinal Mushrooms Past, Present and Future -- Farming of Medicinal Mushrooms -- Solid State and Submerged Cultivation of Medicinal Mushroom Mycelia in Bioreactors -- Medicinal Mushrooms Pilot and Industrial Bioreactor Experience -- Barriers to the Use of Medicinal Mushrooms for Production of Metabolites -- Bioeconomy Analysis of Mushroom Production -- Advances in Pilot Scale Stirred Bioreactors in Solid State and Submerged Cultivations of Medicinal Mushrooms -- Down Stream Processing of Medicinal Mushrooms Products -- Bioactive Compounds from Medicinal Mushrooms -- Biological Technology Advances in Mushrooms: Genetic Manupilations -- The Health and Clinical Benefits of Medicinal Fungi.
Sommario/riassunto	This book offers a comprehensive review of the latest developments in medicinal mushroom biochemical engineering and biotechnology, and it also analyses the circular economy of mushroom bioproduction. Divided into 13 chapters, the book begins with a historical perspective of medicinal mushrooms, followed by authoritative chapters that explore the farming of medicinal mushrooms and bioeconomy, as well as the limitations of using medicinal mushrooms to produce metabolites. Subsequent chapters cover topics such as solid-state and submerged cultivation of medicinal mushroom mycelia in bioreactors, pilot and industrial bioreactor cultivation experiences, downstream

processing of medicinal mushroom products, and biochemistry of medicinal mushroom bioactive compounds. Particular attention is given to the recent genetic engineering techniques applied in mushroom cultivation. The book closes with a chapter devoted to the health and clinical benefits of medicinal fungi, where readers will find expert insights into the therapeutic implications of medicinal fungi. In this book, readers will find an authoritative perspective on the past, present and future of medicinal mushrooms, and will also learn about some recent clinical studies with isolates from these natural products. Given its breadth, this book will appeal to biotechnologists working in mushroom cultivation, as well as to professionals interested in traditional pharmacy and medicine. .