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Titolo	Fungi and their role in sustainable development [e-book] : current perspectives / Praveen Gehlot, Joginder Singh, editors
ISBN	9789811303937 9811303932 9789811303920 9811303924
Descrizione fisica	1 online resource : illustrations
Altri autori (Persone)	Gehlot, Praveeneditor Singh, Jogindereditor
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Soggetti	Fungi - Economic aspects Fungi - Industrial applications Fungi - Biotechnology Sustainable agriculture
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Nota di contenuto	Module 1_ Sustainable Cultivation and Conservation Strategies of Fungi. - Chapter 1. Cultivation, conservation and medicinal significance of macro-fungi.- Chapter 2. Fungi as biocontrol agent: an alternate to chemicals.- Chapter 3. Role of Fungi in various Fields for sustainable development.- Chapter 4. The biological promises of endophytic Muscodor species.- Chapter 5. Slime Moulds: The Tiny Charmers.- Module 2_ Sustainable Aspects of Fungi in Agriculture.- Chapter 6. Fungal Endophytes: Role in Sustainable Agriculture.- Chapter 7. Fungal endophytes and their Secondary metabolites -- Role in sustainable agriculture.- Chapter 8. Agricultural important microorganism- Sustainability from rhizosphere to bioformulation as weapon for biological control.- Chapter 9. Mycopesticides: Fungal based pesticides for sustainable agriculture.- Chapter 10. Multifactorial role of Arbuscular Mycorrhizae in Agroecosystem.- Chapter 11
Sommario/riassunto	This book illustrates the multiple roles of fungi in everyday life. Fungi are the large group of organisms with tremendous diversity and

economic importance. Their ability to produce commercially efficient useful products makes them the vulnerable sustainable tool for the future generation. This book describes a systems approach and provides a means to share the latest developments and advances about the benefits of fungi including their wide application, traditional uses, modern practices, along with designing of strategies to harness their potential. The chapters are organized with data, providing information related to different sustainable aspects of fungi in agriculture, its cultivation and conservation strategies, industrial and environmental utilization, advanced bioconversion technologies and modern biotechnological interventions. Updated information and current opinion related to its application for sustainable agriculture, environment, and industries as futuristic tools have been presented and discussed in different chapters. The book also elucidates a comprehensive yet a representative description of the challenges associated with the sustained application of fungi to achieve the goals of sustainability
