

1. Record Nr.	UNINA9910983388603321
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Titolo	Fungal Endophytes Volume II : Applications in Agroecosystems and Plant Protection / / edited by Kamel A. Abd-Elsalam, Amr H. Hashem
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819788040 9819788048
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (819 pages)
Altri autori (Persone)	HashemAmr H
Disciplina	571.92
Soggetti	Plant diseases Symbiosis Plants Botany Stress (Physiology) Plant Pathology Plant Symbiosis Plant Science Plant Stress Responses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1. Agriculture application -- Chapter 1. Enhancing Agroecosystem Productivity with Endophytic Fungi: Unveiling their Role -- Chapter 2. Multifunctional Efficacy and Eco-Friendly Applications of Fungal Endophytes -- Chapter 3. Role of Endophytic Fungi in Induced Resistance to Abiotic Stresses -- Chapter 4. Endophytic Fungi: A Natural Approach to Plant Growth Promotion and Sustainable Agriculture -- Chapter 5. Fungal Endophytes and Their Role in Bio and Phyto- Remediation Applications -- Chapter 6. The Potential of Fungal Endophytes in Wheat -- Part 2. Plant Protection Application -- Chapter 7. Endophytic Fungi for Reduction of Mycotoxin Contamination in Crops -- Chapter 8. Evaluating the Efficacy of Endophytic Fungal Compounds as Biopesticides in Agriculture -- Chapter 9. Exploring the Potential Benefits of Trichoderma Species in Agro-Industrial Crop Production --

Chapter 10. Endophytic Fungi as Promising Sources of Antiviral Compounds for Plant Virus Pathogens -- Chapter 11. Biosynthesis of Copper Nanoparticles from Endophytic Fungi and Their Role in Plant Disease Management -- Chapter 12. Biosynthesis of Silver Nanoparticles from Endophytic Fungi and Their Role in Plant Disease Management -- Chapter 13. Biocontrol of Blight Diseases Using Endophytic Fungi -- Chapter 14. Endophytic Fungi: A Biocontrol Agents For Postharvest Disease-Causing Pathogenic Fungi -- Chapter 15. The Multifaceted Biocontrol Mechanisms of Endophytic Fungi -- Chapter 16. Fungal Endophytes and Soil-Borne Fungi -- Chapter 17. Biocontrol Potential of Endophytic Fungi against Postharvest Grape Pathogens -- Chapter 18. Biological Control Mechanism of Endophytic Fungi -- Chapter 19. Hidden Allies: Exploring the Cutting-Edge Insights into the Role of Mycorrhizal Fungi in Plant Health -- Chapter 20. Endophytic Fungi Secondary Metabolites and Their Antimicrobial Activity.

Sommario/riassunto

This book explores applications of endophytic fungi in agriculture and plant protection. It provides insights into the potential of these fungi in developing environmentally friendly and sustainable agricultural techniques. This book discusses the use of endophytic fungi as biocontrol agents against plant infections and stressors. It is targeted at farmers, plant pathologists, agricultural researchers, biotechnology experts, and students of biology and agronomy who are interested in learning more about the expanding applications of fungal endophytes in agriculture and plant health. The book examines the role of endophytes and their bioactive metabolites in agricultural yield, plant growth promotion, and plant defence against stress and disease.
