1. Record Nr. UNINA9910437631003321

Titolo	Trichoderma : agricultural applications and beyond / / Chakravarthula Manoharachary, Harikesh Bahadur Singh, Ajit Varma, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] Â©2020
ISBN	3-030-54758-2
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVI, 367 p. 36 illus., 31 illus. in color.)
Collana	Soil Biology, , 1613-3382 ; ; 61
Disciplina	579.5677
Soggetti	Trichoderma
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Advances in Systematics, Taxonomy and Conservation of Trichoderma species -- Biodiversity of Trichoderma species in different agro-ecological habitats -- Beneficial Effects of Trichoderma on Plant–Pathogen Interactions: Understanding Mechanisms Underlying Genes -- Trichoderma – Boon for Agriculture -- Mass Multiplication of Trichoderma in Bioreactors -- Trichoderma species: A blessing for crop production -- Trichoderma: An effective and potential biocontrol agent for sustainable management of pulses pests and pathogens -- Management of Diseases of Medicinal and Aromatic Plants Using Trichoderma spp. -- Trichoderma - A Globally Dominant Commercial Bio-fungicide -- Modulation of Microbiome Through Seed Bio-priming -- Opportunistic Avirulent Plant Symbionts Trichoderma: Exploring its Potential Against Soilborne PhytopathogensBiotechnological Application of Trichoderma: A Powerful Fungal Isolate with Diverse Potentials for the Attainment of Food Safety, Management of Pest and Diseases, Healthy Planet, and Sustainable Agriculture -- Trichoderma as Biostimulant: Factors Responsible for Plant Growth Promotion -- Trichoderma Proteome: Multifunctional Role in Plant Defense -- Strategies of Biotechnological Innovations using Trichoderma -- Trichoderma spp.: Expanding Potential Beyond Agriculture.
Sommario/riassunto	This book gives a comprehensive overview on the various aspects of Trichoderma, a filamentous fungus ubiquitously present in soil. Topics addressed are the biology, diversity, taxonomy, ecology, biotechnology

and cultivation of Trichoderma, to just name a few. Basic as well as applied aspects are covered and a special focus is given on use of Trichoderma in agriculture and beyond. Trichoderma species are widely distributed throughout the world in soil, rotting plant material, and wood. Although they are often considered as a contaminants, Trichoderma species are also known for their ability to act as biocontrol agents against various plant pathogens and plant diseases, and also as biostimulants promoting plant growth. The contents of this book will be of particular interest to, agricultural scientists, biotechnologists, plant pathologists, mycologists, and microbiologists, students, extension workers, policy makers and other stakeholders.