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Altri autori (Persone)	RakshitAmitava AdholeyaAlok ChenYinglong
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Nota di contenuto	Multifaceted role of AMF for sustainable agricultural production: an overview -- Molecular determinants and regulatory mechanism of nutrient exchange between plant and AMF -- AMF role in nutrient loss reduction and improvement in nutrient use efficiency -- Role of AMF in organic matter decomposition, carbon cycling and climate change -- Role of AMF in nitrogen and phosphorus cycling -- Application of AMF for the improvement in zinc and iron nutrition in agricultural crops -- Co-inoculation of AMF with other bio-fertilizers for better soil nutrients acquisition -- Application of AMF in production of cereal and oilseeds crops -- Application of AMF in production of pulse and legume crops -- The role of AMF in production of medicinal crops-The role of AMF in

production of horticulture, and other high value crops -- Improvement in nutritional quality of food crops through AMF inoculation -- The abiotic stress management in agricultural crops through AMF technology -- Consortium of PGPR and mycorrhiza for improving agricultural productivity in degraded land -- Potential of AMF in bioremediation of heavy metals polluted soils -- Success story of AMF as a bio protectant against major plant pathogens -- Agronomic practices for optimizing the AMF abundance and diversity for sustainable food production -- Earthworm and Arbuscular mycorrhiza interactions: Strategies to augment productivity in agro-ecosystems.

Sommario/riassunto

This 2 volume book is an up-to-date overview of current progress in Arbuscular Mycorrhizal Fungal (AMF) technique development, inoculum production and its quality regulations, application in agriculture, horticulture, agroforestry and other ecosystems along with nutrient management for sustainable food production. It offers new insight and cutting-edge information for novices and experts such as students, academicians, researchers, environmentalists, industrialists, and other individuals interested in the field of mycorrhiza.AMF provides favorable rhizospheric environment to the plant with numerous direct and indirect mechanisms, in exchange of soil nutrients and photosynthetically fixed carbon. Other than the species composition and diversity determination of natural ecosystem, AMF play a vital role in maintaining the soil quality, agricultural sustainability and environmental integrity. The second volume provide comprehensive knowledge on AMF role in nutrient cycling, nutrient exchange and their acquisition under normal and stress condition.