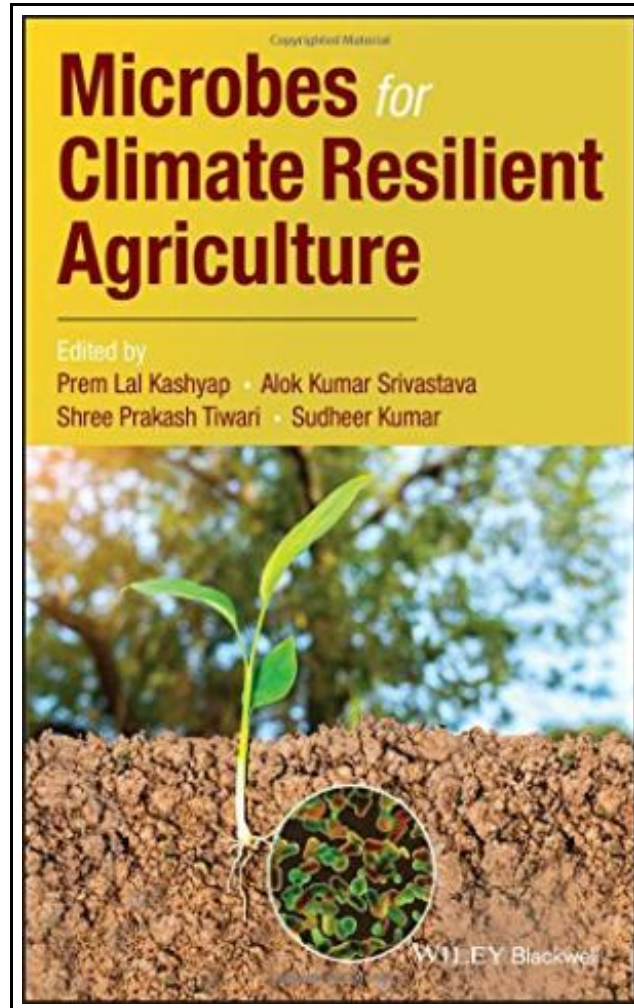


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MICROBES FOR CLIMATE RESILIENT AGRICULTURE (HARDBACK)



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John Wiley and Sons Ltd, United States, 2018. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. A comprehensive, edited volume pulling together research on manipulation of the crop microbiome for climate resilient agriculture Microbes for Climate Resilient Agriculture provides a unique collection of data and a holistic view of the subject with quantitative assessment of how agricultural systems will be transformed in coming decades using hidden treasure of microbes. Authored by leaders in the field and edited to ensure conciseness and clarity, it covers a broad range of agriculturally important crops, discusses the impact of climate change on crops, and examines biotechnologically and environmentally relevant microbes. The book encapsulates the understanding of microbial mediated stress management at field level, and will serve as a springboard for novel research findings and new applications in the field. Chapter coverage includes: the role of the phytomicrobiome in maintaining biofuel crop production in a changing climate; the impact of agriculture on soil microbial community composition and diversity in southeast Asia; climate change impact on plant diseases; microalgae; photosynthetic microorganisms and bioenergy prospects; amelioration of abiotic stresses in plants through multi-faceted beneficial microorganisms; role of methylotrophic bacteria in climate change mitigation; conservation agriculture for climate change resilience; archaeal community structure; mycorrhiza-helping plants to navigate environmental stresses; endophytic microorganisms; bacillus thuringiensis; and microbial nanotechnology for climate resilient agriculture. Clear and succinct chapters contributed and edited by leaders in the fieldCovers microbes beneficial and detrimental roles in the microbiome, as well as the functions they perform under stressDiscusses the crop microbiome, nutrient cycling microbes, endophytes, mycorrhizae, and various pests and diseases, and their roles in sustainable farmingPlaces research in larger context of climate change s effect on global agriculture Microbes for Climate Resilient Agriculture is an important text for scientists and researchers studying microbiology,...



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