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Nota di contenuto	Ch 1. Bacillus spp.: Nature Gift to Agriculture and Humankind -- Ch 2. Fostering Sustainable Agriculture: Bacillus spp. as a Key Player in Enhancing Soil Health and Crop Growth -- Ch 3. Plant Growth Promoting traits of Bacillus and related genera -- Ch 4. Biofilm forming capability of Bacillus and its related genera -- Ch 5. Endophytic Bacilli for the amelioration of biotic and abiotic stresses in plants: A mechanistic approach -- Ch 6. Application of Bacillus species in the alleviation of salinity-stressed agricultural soil: An overview -- Ch 7. Exploring the potentiality of Bacillus amyloliquifaciens as a prominent biocontrol agent: A Comprehensive Overview -- Ch 8. Bacillus and related genera on biocontrol of insects and nematodes -- Ch 9. Bacillus subtilis-mediated induction of disease resistance and promotion of plant growth of vegetable crops -- Ch 10. Bacillus-mediated degradation of recalcitrant agricultural pesticides: A cutting-edge approach towards the clean-up of environmental contaminants -- Ch 11. New insights into the taxonomy of Bacillus and related genera in

relevance to their antimicrobial peptides.

Sommario/riassunto

This edited volume provides a comprehensive view of the recent developments on Bacillus and their application in agriculture and allied sectors in a global scenario. Research articles sharing a consolidated state-of-the-art development in this area are solicited for this book. This book is a complete package covering all spheres of diversity and taxonomy, nutrient supplementation, biotic and abiotic stress management, biofilm and endophytic colonization, commercialization and regulatory mechanisms, etc. Descriptions of cutting-edge techniques and novel approaches on Bacillus research is also covered. A part of the book concentrates on the biotic and abiotic stress management in several important crops. It contains 11 contributory chapters from eminent experts in the field of life sciences specially microbiology, plant pathology and biotechnology working on different aspects of Bacilli and their application in agriculture and allied sectors. This book is useful for Graduate, Post-graduate students, research scholars, and post doctorate scholars of plant science, plant microbiology, soil microbiology and plant pathology discipline researchers, academicians, industrialists, policy makers.