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Autore	Polemon Iliensis
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Nota di contenuto	1. Role of Bacillus genus in the production of value added compounds -- 2. Bacillus: as bioremediator agent of major environmental pollutants -- 3. Growth Promotion of Non-legumes by the Inoculation of Bacillus species -- 4. Management of the Western Corn Rootworm, Diabrotica virgifera virgifera LeConte, Using Transgenic Bt Maize -- 5. The efficiency of Bacillus species as PGPR and biocontrol agent under adverse environmental conditions -- 6. Contribution of Bacillus thuringiensis subsp. israelensis in biological control by its mosquitocidal activity against diptera -- 7. Bacillus spp., a promising biocontrol agent of root, foliar and postharvest diseases of plants -- 8. Bacillus spp. and their Biotechnological Roles in Green Industry -- 9. Application of Bacillus spp. for sustainable cultivation of potato (Solanum tuberosum L.) and the benefits -- 10. Phytostimulation and biocontrol by the plant-associated Bacillus amyloliquefaciens FZB42 - an update -- 11. Potential and Prospects of Aerobic Endospore Forming Bacteria (AEFB) in Crop Production -- 12. Thermostable -Amylase from Geobacillus – A Review -- 13. New insights in plant associated Paenibacillus species: biocontrol and plant-growth promoting activity

-- 14. Lactobacillus: A Potential Probiotic -- 15. Expanding the horizons for the use of Paenibacillus species as PGPR for sustainable agriculture -- 16. Bacillus spp.: A prolific siderophore producer -- 17. Can Bacillus species enhance nutrients availability in agricultural soils?.

Sommario/riassunto

This volume of comprehensive reviews updates our knowledge of research and commercialization of Bacillus-based products in agriculture and the environmental sector. The last couple of decades have witnessed tremendous growth of research on Bacillus species. Many of these species can produce industrial enzymes, and can act simultaneously as biofertilizers and as biopesticides inhibiting important phytopathogens. This "biocontrol" activity is now elucidated by a number of genomic and metabolomic studies. Bacillus formulations are being patented and commercialized on a regular basis. Understanding the biology, ecology and mechanism of action of these bacteria will play a role in the promotion of Bacillus-based products to support green technology in agriculture and agro-based industries.