

1. Record Nr.	UNINA9910810150403321
Titolo	Microbial ecology of aerial plant surfaces [[electronic resource] /] / edited by M.J. Bailey ... [et al.]
Pubbl/distr/stampa	Wallingford, : CABI, 2006
ISBN	1-280-85797-8 9786610857975 1-84593-178-5
Descrizione fisica	1 online resource (347 p.)
Altri autori (Persone)	BaileyMark J
Disciplina	579.17 579/.17
Soggetti	Plant surfaces - Microbiology Leaves - Microbiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Conference proceedings.
Nota di contenuto	Contents; Preface; Contributors; Section I: Biodiversity and Population Genetics of Phyllosphere Communities; 1. Phyllosphere Microbiology: A Perspective; 2. Microbial Diversity in the Phyllosphere and Rhizosphere of Field Grown Crop Plants: Microbial Specialisation at the Plant Surface; 3. Diversity, Scale and Variation of Endophytic Fungi in Leaves of Tropical Plants; 4. Microorganisms in the Phyllosphere of Temperate Forest Ecosystems in a Changing Environment; Section II: Spatial Distribution and Biofilms; 5. Bacterial Biofilm Formation, Adaptation and Fitness 6. Bacterial Assemblages on Plant Surfaces7. The Role of Plant Genetics in Determining Above- and Below-ground Microbial Communities; 8. A Survey of A-L Biofilm Formation and Cellulose Expression Amongst Soil and Plant-Associated Pseudomonas Isolates; Section III: Biological Control and Pathogenicity; 9. Biological Control of Plant Diseases by Phyllosphere Applied Biological Control Agents; 10. Ecophysiology of Biocontrol Agents for Improved Competence in the Phyllosphere; 11. Compost Teas: Alternative Approaches to the Biological Control of Plant Diseases Section IV: Gene Expression and Phyllosphere Genomics12. Molecular

Interactions at the Leaf Surface: Xanthomonas and its Host; 13. Erwiniae: Genomics and the Secret Life of a Plant Pathogen; 14. Host-Pathogen Interactions of Relevance to the Phyllosphere; Section V: Leaf Colonisation and Dispersal; 15. Effects of Endophytes on Colonisation by Leaf Surface Microbiota; 16. Plant Control of Phyllosphere Diversity: Genotype Interactions with Ultraviolet-B Radiation; The colour plate; 17. Population Growth and the Landscape Ecology of Microbes on Leaf Surfaces
18. What DNA Microarrays Can Tell Us About Bacterial Diversity: A New Light on an Old Question
Section VI: Aerobiology and Plant Surface Microbiology; 19. Human Pathogens and the Health Threat of the Phyllosphere; 20. Post-harvest Spoilage of Wheat Grains: Malodour Formation and the Infection Process; 21. Atmospheric Composition and the Phyllosphere: The Role of Foliar Surfaces in Regulating Biogeochemical Cycles; Index; A; B; C; D; E; F; G; H; I; L; M; N; O; P; Q; R; S; T; U; V; W; X; Y; Z

Sommario/riassunto

All aerial plant surfaces are inhabited by diverse assemblages of microorganisms. These organisms have profound effects on plant health and thus impact on ecosystem and agricultural functions. Based on proceedings from the 8th International Symposium on the microbiology of aerial plant surfaces, held in Oxford 2005.
