

1. Record Nr.	UNISA990006084850203316
Autore	GABRIEL, Markus
Titolo	Perchè non esiste il mondo / Markus Gabriel ; traduzione di Simone Maestrone
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Collana	Saggi Bompiani
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Soggetti	Ontologia
Collocazione	II.1.D. 6282
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Livello bibliografico	Monografia

2. Record Nr.	UNINA9910437858103321
Titolo	Genomics of Soil- and Plant-Associated Fungi // edited by Benjamin A. Horwitz, Prasun K. Mukherjee, Mala Mukherjee, Christian P. Kubicek
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	9783642393396 364239339X
Edizione	[1st ed. 2013.]
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Collana	Soil Biology, , 2196-4831 ; ; 36
Disciplina	570 579.1718 579/.1718
Soggetti	Microbial genetics Plant diseases Industrial microbiology Soil science Microbial Genetics Plant Pathology Industrial Microbiology Soil Science
Lingua di pubblicazione	Inglese
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Note generali	"ISSN: 1613-3382."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Genomic contributions to the study of soil and plant-interacting fungi -- Fungal genomics for energy and environment -- Advancement of functional genomics of a model species of Neurospora and its use for ecological genomics of soil fungi -- Major Plant Pathogens of the Magnaporthaceae Family -- Aspergillus - Genomics of a cosmopolitan fungus -- Trichoderma – genomic aspects of mycoparasitism and biomass degradation -- Fusarium oxysporum: A "moving" view of pathogenicity -- Genomics and spectroscopy provide novel insights into the mechanisms of litter decomposition and nitrogen assimilation by ectomycorrhizal fungi -- Cochliobolus heterostrophus, a Dothideomycete pathogen of maize -- Penicillium chrysogenum - the genomics of antibiotics production -- Rhizopus oryzae - genetic

secrets of an emerging human pathogen -- *Podospora anserina*: from laboratory to biotechnology -- Recent advances on the genomics of litter- and soil-inhabiting Agaricomycetes -- Archaeorhizomycetes, patterns of distribution and abundance in soil -- Methods in Fungal Genetics.

Sommario/riassunto

This volume addresses the similarities and also the differences in the genomes of soil saprophytes, symbionts, and plant pathogens by using examples of fungal species to illustrate particular principles. It analyzes how the specific interactions with the hosts and the influence of the environment may have shaped genome evolution. The relevance of fungal genetic research and biotechnological applications is shown for areas such as plant pathogenesis, biomass degradation, litter decomposition, nitrogen assimilation, antibiotic production, mycoparasitism, energy, ecology, and also for soil fungi turning to human pathogens. In addition to the model organisms *Neurospora* and *Aspergillus*, the following species are covered providing a view of pathogens and mutualists: *Trichoderma*, *Fusarium oxysporum*, *Cochliobolus heterostrophus*, *Penicillium chrysogenum*, *Rhizopus oryzae*, *Podospora anserina*, and species belonging to Agaricomycetes, Archaeorhizomycetes and Magnaporthaceae. Ecology and potential applications have guided the choice of fungal genes to be studied and it will be fascinating to follow the trends of future sequencing projects.
