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Titolo	Fungi and lignocellulosic biomass [[electronic resource] /] / by Christian P. Kubicek ; with figures by Irina S. Druzhinina and Lea Atanasova
Pubbl/distr/stampa	Ames, Iowa, : Wiley-Blackwell, 2013
ISBN	1-280-87491-0 9786613716224 1-118-41448-9 1-118-41451-9 1-118-41450-0
Descrizione fisica	1 online resource (305 p.)
Collana	Biomass and biofuels series
Disciplina	662/.88
Soggetti	Lignocellulose - Biodegradation Fungi - Biotechnology Biomass energy
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Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The plant biomass -- The actors : plant biomass degradation by fungi -- The tools, part 1 : enzymology of cellulose degradation -- The tools, part 2 : enzymology of hemicellulose degradation -- The tools, part 3 : enzymology of lignin degradation -- Catabolic pathways of soluble degradation products from plant biomass -- Regulation of formation plant biomass-degrading enzymes in fungi -- The fungal secretory pathways and their relation to lignocellulose degradation -- Production of cellulases and hemicellulases by fungi -- Production of fermentable sugars from lignocelluloses -- Lignocellulose biorefinery.
Sommario/riassunto	Harnessing fungi's enzymatic ability to break down lignocellulolytic biomass to produce ethanol more efficiently and cost-effectively has become a significant research and industrial interest. Fungi and Lignocellulosic Biomass provides readers with a broad range of information on the uses and untapped potential of fungi in the production of bio-based fuels. With information on the molecular biological and genomic aspects of fungal degradation of plant cell walls to the industrial production and application of key fungal enzymes,

chapters in the book cover topics such as enzymol