

1. Record Nr.	UNINA9910877156703321
Titolo	Plant desiccation tolerance // editors, Matthew A. Jenks, Andrew J. Wood
Pubbl/distr/stampa	Ames, Iowa, : Blackwell Pub., 2007
ISBN	1-281-38204-3 9786611382049 0-470-37688-0 0-470-37665-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (339 p.)
Altri autori (Persone)	JenksMatthew A WoodAndrew J
Disciplina	581.4
Soggetti	Plant-water relationships Plants - Drought tolerance Plants - Adaptation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Plant desiccation tolerance : diversity, distribution, and real-world applications / Andrew J. Wood and Matthew A. Jenks -- Lessons on dehydration tolerance from desiccation-tolerant plants / Melvin J. Oliver -- Mechanisms of desiccation tolerance in Angiosperm resurrection plants / Jill M. Farrant -- Desiccation tolerance in lichens / Richard P. Beckett and Farida V. Minibayeva -- Desiccation tolerance : gene expression, pathways and regulation of gene expression / Dorothea Bartels, Jonathan Phillips, and John Chandler -- Seed desiccation-tolerance mechanisms / Patricia Berjak, Jill M. Farrant, and Norman W. Pammenter -- The glassy state in dry seeds and pollen / Olivier Leprince and Julia Buitink -- DNA structure and seed desiccation tolerance / Ivan Broubriak, Shirley McCready, and Daphne J. Osborne -- Structural dynamics and desiccation damage in plant reproductive organs / Christina Walters and Karen L. Koster -- XvSap1, a desiccation tolerance associated gene with potential for crop improvement / Revel Iyer ... [et al.].
Sommario/riassunto	Plant desiccation tolerance is of great basic and applied scientific

interest. Understanding plant responses and adaptations to severe desiccation is key to applying desiccation tolerance research to the improvement of economically important crops. Plant Desiccation Tolerance brings together a field of international researchers to provide a current review of the advances in plant desiccation tolerance research. The book is broken up into three sections: Vegetative Desiccation Tolerance; Desiccation Tolerance of Pollen, Spores, and Seeds; and Applications of Desiccation Tolerance Research
