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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Introduction to plant abiotic stress response -- pt. 2. Methods to improve plant abiotic stress response -- pt. 3. Species-specific case studies.
Sommario/riassunto	Abiotic stress, such as high salinity and drought is the most common challenge for sustainable food production in large parts of the world, in particular in emerging countries. The ongoing and expected global climate change will further increase these challenges in many areas, making improved stress resistance of crops a key topic for the 21st Century. Proteomics, genomics and metabolomics are methods allowing for the rapid and complete analysis of the complete physiology of crop plants. This knowledge in turn, is the prerequisite for improvements of crop resistance against abiotic stress t