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Titolo	Combined Stresses in Plants : Physiological, Molecular, and Biochemical Aspects / / edited by Ramamurthy Mahalingam
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ISBN	3-319-07899-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (271 p.)
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Soggetti	Systems biology Plant genetics Botanical chemistry Systems Biology Plant Genetics and Genomics Plant Biochemistry
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 at the end of each chapters and index.
Nota di contenuto	O3 + Drought + Heat in Soybeans -- Physiological Aspects of Drought + Heat Bioenergy Crops -- Oxidative Stress + Temperature in Rice -- CO2, Cu and Cd, in Rice and Wheat -- Ozone + CO2 in Soybeans -- High Light and High Temperature in Sunflower -- CO2 and Heavy Metal -- O3 and Soybean Mosaic Virus Interactions -- CO2 and Salinity -- Nematode + Drought Interactions -- Drought + Heat + Virus in Arabidopsis -- Drought + Heat in Lotus -- Next Generation Sequencing + Comparative Genomics + Combined Stresses.
Sommario/riassunto	The unique responses of plants to combined stresses have been observed at physiological, biochemical, and molecular levels. This book provides an analysis of all three levels of change in various plants in response to different combinations of stresses. The text provides a general review of the combined stress paradigm, focuses on the impact of higher CO2 levels in combination with other stresses, examines

drought stress in conjunction with other abiotic factors in different crop plants as well as the combination of biotic and abiotic factors, and discusses the impact of combined stresses in forest ecosystems. Written by experts in the field, Combined Stresses in Plants: Physiological, Molecular, and Biochemical Aspects is a valuable resource for scientists, graduate students, and post-doctoral fellows alike working in plant stresses.