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Nota di contenuto	<p>""Abiotic Stresses in Crop Plants""; ""Copyright""; ""Contents""; ""Contributors""; ""Introduction""; ""About the Editors""; ""1: Heat-Shock Proteins and Molecular Chaperones: Role in Regulation of Cellular Proteostasis and Stress Management""; ""Abstract""; ""1.1 Introduction""; ""1.2 Molecular Chaperones: Functions and Properties""; ""1.3 Factors Promoting Protein Mis-Folding and Aggregation""; ""1.4 Reactive Oxygen Species: Positive and Negative Impacts""; ""1.5 Principal Molecular Chaperones: Heat-Shock Proteins""; ""1.6 The Ubiquitous Holdases: Small Heat-Shock Proteins""</p> <p>""1.7 Structural Characteristics of Small Heat-Shock Proteins""""1.8 The Yeast Hsp12: an Unusual Small Heat-Shock Protein""; ""1.9 Hsp60 Family of Chaperones: the Chaperonins""; ""1.9.1 The Escherichia coli GroEL-ES complex""; ""1.10 The Eukaryotic Chaperonin Complex""; ""1.11 Dynamic Hexameric ATPases: Clp/Hsp100 Disaggregases""; ""1.12 The Hsp70 (DnaK) Family: Highly Conserved Allosteric Foldases""; ""1.13 Bacterial J-Proteins and Eukaryotic Hsp40: Co-Chaperones of Hsp70s""; ""1.14 Hsp90, the Multifaceted Chaperone: Myriad Functions and Varied Clientele""</p>

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 ""2.4.4 Epigenetic regulation of heat-stress response in plants""; ""2.5
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 ""4: Monitoring the Activation of Jasmonate Biosynthesis Genes for
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 Breeding Strategies""; ""Acknowledgements""
 ""References""

Sommario/riassunto

This book is based to a great extent on the biochemical and molecular mechanisms of tolerance of commonly encountered abiotic stresses in nature. This book will deal with increasing temperature, water, salinity, and heavy metals and ozone, and how these abiotic stresses can be managed by microbes through their alleviation mechanisms. Water stress includes both drought and flooding. 1st section outlines the relevance of abiotic stresses in present day environmental conditions. The 2nd section deals with three major stresses - temperature, water and salinity and the metabolic changes and protect