

Chapter 1 Physiological, Molecular, and Biochemical Responses of Rice to Drought Stress.....	1
Chapter 2 Coordinated Functions of Reactive Oxygen Species Metabolism and Defense Systems in Abiotic Stress Tolerance.....	23
Chapter 3 Nitric Oxide- Mediated Salinity Stress Tolerance in Plants: Signaling and Physiological Perspectives.....	45
Chapter 4 S- Nitrosylation and Denitrosylation: A Regulatory Mechanism during Abiotic Stress Tolerance in Crops.....	65
Chapter 5 Calcium Signaling Is a Hub of the Signaling Network in Response and Adaptation of Plants to Heat Stress.....	85
Chapter 6 Functions of Polyamines in Abiotic Stress Tolerance in Plants.....	97
Chapter 7 Decoding the Multifaceted Role of Glycine Betaine in Heavy Metal Stress Regulation.....	119
Chapter 8 Abiotic Stress and Its Role in Altering the Nutritional Landscape of Food Crops.....	141
Chapter 9 Plant Transcription Factors from Halophytes and Their Role in Salinity and Drought Stress Tolerance.....	169
Chapter 10 Plant Abiotic Stress Tolerance on the Transcriptomics Atlas.....	193
Chapter 11 Deciphering the Molecular Mechanism of Salinity Tolerance in Halophytes Using Transcriptome Analysis.....	237
Chapter 12 Seed Aging in Crops: A Proteomics Perspective.....	255
Chapter 13 Crop Proteomics: Towards Systemic Analysis of Abiotic Stress Responses.....	265
Chapter 14 Metabolites and Abiotic Stress Tolerance in Plants.....	287
Chapter 15 Genome Editing for Developing Abiotic Stress- Resilient Plants.....	305
Chapter 16 Molecular Breeding in Rice for Abiotic Stress Resilience:	

The Story since 2004.....	329
Chapter 17 Nanotechnology in Developing Abiotic Stress Resilience in Crops:	
A Physiological Implication.....	351