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Overview; 1.1 Introduction; 1.2 Perception of Abiotic Stress Signals; 1.3 Abiotic Stress Signaling Pathways in Plants; 1.4 Conclusions, Crosstalks, and Perspectives; Acknowledgments; References; Chapter 2: Plant Response to Genotoxic Stress: A Crucial Role in the Context of Global Climate Change; 2.1 Introduction; 2.2 Genotoxic Effects of UV Radiation  
2.3 UV-B-Induced DNA Damage and Related Signaling Pathway  
2.4 Repair of UV-B-Induced DNA Lesions: The Role of Photolyases; 2.5 Contribution of the NER Pathway in the Plant Response to UV Radiation; 2.6 Chromatin Remodeling and the Response to UV-Mediated Damage; 2.7 Homologous Recombination and Nonhomologous End Joining Pathways are Significant Mechanisms in UV Tolerance; 2.8 UV-B Radiation and Genotoxic Stress: In Planta Responses; 2.9 Heat Stress: A Challenge for Crops in the Context of Global Climate Change; 2.10 Conclusions; References  
Chapter 3: Understanding Altered Molecular Dynamics in the Targeted Plant Species in Western Himalaya in Relation to Environmental Cues: Implications under Climate Change Scenario  
3.1 Why Himalaya?; 3.2 Climate Change is Occurring in Himalaya; 3.3 Plant Response to Climate Change Parameters in Himalayan Flora; 3.4 Impact on Secondary Metabolism under the Climate Change Scenario; 3.5 Path Forward; Acknowledgments; References; Chapter 4: Crosstalk between Salt, Drought, and Cold Stress in Plants: Toward Genetic Engineering for Stress Tolerance; 4.1 Introduction  
4.2 Signaling Components of Abiotic Stress Responses  
4.3 Decoding Salt Stress Signaling and Transduction Pathways; 4.4 Drought Stress Signaling and Transduction Pathways; 4.5 Cold Stress Signaling and Transduction Pathways; 4.6 Transgenic Approaches to Overcome Salinity Stress in Plants; 4.7 Conclusion; References; Chapter 5: Intellectual Property Management and Rights, Climate Change, and Food Security; 5.1 Introduction: What Are Intellectual Properties?; 5.2 Protection of Biotechnologies; 5.3 Management Challenges of Biotechnologies; 5.4 Making Biotechnologies Available  
5.5 Licensing of Biotechnologies  
5.6 Intellectual Property Management and Technology Transfer System at Michigan State University; 5.7 IP Management and Technology Transfer at Michigan State University; 5.8 Enabling Environment for IP Management, Technology Transfer, and Commercialization at MSU; 5.9 International Education, Training and Capacity Building Programs in IP Management and Technology Transfer; 5.10 Impacts of MSU's IP Management and Technology Transfer Capacity Building Programs; 5.11 Summary and Way Forward; References; Part II: Intracellular Signaling  
Chapter 6: Abiotic Stress Response in Plants: Role of Cytoskeleton

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