Record Nr. UNINA9910137497903321 Abiotic stress response in plants / / edited by Narendra Tuteja and **Titolo** Sarvajeet S. Gill; contributors, Ruben Alcazar [and fifty-five others] Pubbl/distr/stampa Weinheim, Germany:,: Wiley-VCH,, 2016 ©2016 **ISBN** 3-527-69459-5 3-527-69457-9 3-527-69458-7 Descrizione fisica 1 online resource (515 pages) Collana THEi Wiley ebooks. Disciplina 581.24 Soggetti Plants - Effect of stress on Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Related Titles; Title Page; Copyright; Dedication; Table of Contents; List of Contributors; Foreword; References; Preface; Part I: Abiotic Stresses - An Overview: Chapter 1: Abiotic Stress Signaling in Plants-An 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 Pathway2.4 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:

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