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Collana	Plant Life and Environment Dynamics, , 2730-6763
Disciplina	929
Soggetti	Plant physiology Stress (Physiology) Plants Plants - Disease and pest resistance Botanical chemistry Plant Physiology Plant Stress Responses Plant Immunity Plant Biochemistry
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Nota di contenuto	Chapter 1. Introduction to UV-B Radiation -- Chapter 2. UV-B & Its Climatology -- Chapter 3. UV-B: Curse or boon? -- Chapter 4. Major influence on photosynthetic performance under UV-B exposure -- Chapter 5. Solar UV-B and Primary Producers in Aquatic Ecosystems -- Chapter 6. UV B and Crop research from past to new age -- Chapter 7. Plant Responses: UV-B avoidance strategies -- Chapter 8. Interaction of Salicylate and Jasmonate on the UV-B Induced Changes in Physiological and Biochemical Activities of Crop Plants -- Chapter 9. UVR8 discovery: A new vision in UV-B research -- Chapter 10. UVR8 signaling, mechanism and integration with other pathways -- Chapter 11. Acclimation of photosynthetic apparatus to UV-B radiation -- Chapter 12. Role of UV- B in regulating performance of photosystem I and II -- Chapter 13. Relationships of Oxidative stress and Ultraviolet-B radiation in Plants -- Chapter 14. Uv-B Stress And Plant Sexual Reproduction -- Chapter 15. Crosstalk Between Melatonin And Nitric

Sommario/riassunto

This book is an inclusive collection of topics on research on UVB for its impact on plants with a focus on its use as an emerging technology for crop growth and protection. This book covers role of UV-B on biological systems, and its transformation from generic stressor to specific regulator. It also explores the past research in UVB studies and the changing mind-sets regarding UV-B in recent time with respect to the plant growth. It also explores the discovery of specific UV-B photoreceptor, UVR8 and UVR8 mediated plants responses. This book is of interest to teachers, researchers, agriculture scientists and plant physiologists. Also the book serves as additional reading material for undergraduate and graduate students of agriculture, forestry, ecology, soil science, and environmental sciences.
