1. Record Nr. UNIORUON00060203

Titolo	Ci hai
Pubbl/distr/stampa	Beijing, : Zhonghua shuju cihai bianjisuo, 1961
Descrizione fisica	2 v. ; 26 cm
Classificazione	CIN II A
Soggetti	LINGUISTICA - CINA
Lingua di pubblicazione	Cinese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910766880503321

Titolo	Melatonin in Plants: A Regulator for Plant Growth and Development / / edited by Ravinder Kumar, Muhammad Ahsan Altaf, Milan Kumar Lal, Rahul Kumar Tiwari
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9967-45-7
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (312 pages)
Disciplina	612.492
Soggetti	Plant physiology Agronomy Botanical chemistry Plant Physiology Plant Biochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Ch 1. Melatonin discovery and divergent biosynthetic pathways in plant -- Ch 2. Melatonin detection and quantification techniques -- Ch 3. Melatonin-mediated regulation of germination, plant establishment and

vegetative development -- Ch 4. Regulatory role of melatonin in flowering, fruit setting and ripening -- Ch 5. Regulatory role of melatonin in photosynthesis and respiration -- Ch 6. Phytohormonal cross-talk with melatonin in plant -- Ch 7. Interaction of melatonin with reactive oxygen species in plants -- Ch 8. Reactive Nitrogen Species (RNS) and Melatonin Interaction in Plant -- Ch 9. Diverse functional role of melatonin in post-harvest biology -- Ch 10. Regulatory role of melatonin in post-harvest management of vegetables and fruits -- Ch 11. Synergistic effect of melatonin in plant growth and development in stress mitigation -- Ch 12. Melatonin mediated regulation of growth, production and protection in forest plant species -- Ch 13. Melatonin: A promising tool against climate change and food security for better plant survival.

Sommario/riassunto

This book highlights the multifunctional role of the ubiquitous molecule, melatonin, in crop plants. The major focus of this edition is to provide detailed insights into morphophysiological, biochemical, and molecular responses of melatonin in the growth and development of the plant. The inception of melatonin as an animal hormone and the subsequent discovery of its multifaceted function in the animal system has triggered the research on this pineal gland hormone. During the last decade, the discovery, quantification and functional studies of melatonin as phytohormone has emerged at a rapid pace. Recently, this phyto-protectant has become an integral component of lab and field-based research on the mitigation of adverse effects of climate-driven abiotic stresses and postharvest biology and technology. The book explores various biosynthetic pathways and detection of melatonin covering its role in flowering, fruit development, photosynthesis, respiration, hormonal crosstalk, post-harvest biology and reactive oxygen species and nitrogen cycles. This book is of high interest to postharvest industries, horticulturists, scientists, researchers, and students. .