

1. Record Nr.	UNINA9910416097103321
Titolo	Plant Phenolics in Sustainable Agriculture [[electronic resource]] : Volume 1 // edited by Rafiq Lone, Razia Shuab, Azra N. Kamili
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-4890-0
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (594 pages)
Disciplina	578.42
Soggetti	Agriculture Sustainable development Plant biochemistry Climate change Sustainable Development Plant Biochemistry Climate Change/Climate Change Impacts Climate Change Fenols Plantes Agricultura sostenible Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Salicylic acid-mediated salt stress tolerance in plants -- Chapter 2. Biotechnology for Extraction of Plant Phenolics -- Chapter 3. Exploitation of Plant Phenolics in Animal Farming -- Chapter 4. FLAVONES AND FLAVONOLS: BIOACTIVITIES AND RESPONSES UNDER LIGHT STRESS IN HERBS -- Chapter 5. Interactive Biology of Auxins and Phenolics in Plant Environment -- Chapter 6. Bioavailability and Nutritional analysis of Flavonoids -- Chapter 7. Newly Identified Phenolic Compounds from Different Plant Families -- Chapter 8. Phenolic alleochemicals from crops and weed management -- Chapter 9. Phenolic Compounds against Fungal and Viral Plant Diseases -- Chapter 10. Phenolic compounds from medicinal herbs: their role in

animal health and diseases: A new approach for sustainable welfare and development -- Chapter 11. Phenolics- A game changer in the life cycle of plants -- Chapter 12. Phenolics as plant protective companion against abiotic stress -- Chapter 13. Phenolics: A key defence Secondary Metabolite to Counter Biotic Stress -- Chapter 14. Phenolics From Agro-Industrial By-Products -- Chapter 15. Plant Phenolics and Post Harvesting Technologies -- Chapter 16. Plant Phenolics as Natural Preservatives in Food System -- Chapter 17. Plant phenolics for overcoming multidrug resistance in human fungal pathogen -- Chapter 18. Plant Phenolics: their biosynthesis, regulation, evolutionary significance and role in Senescence -- Chapter 19. Plant phenolics under water deficit conditions: Biosynthesis, accumulation and physiological roles in water stress alleviation -- Chapter 20. Plants as Biofactories for Phenolic Compounds -- Chapter 21. QUANTITATIVE GENETICS AND THE GENETIC BASIS FOR POLYPHENOLICS TRAIT IN PLANTS -- Chapter 22. Role of Phenolic Compounds in Plant Defensive Mechanisms -- Chapter 23. Role of Salicylic Acid in Biotic and Aboitic Stress Tolerance in Plants -- Chapter 24. Root Phenolics Profile Modulates Microbial Ecology of Rhizosphere -- Chapter 25. Defensive role of plant phenolics against pathogenic microbes for sustainable agriculture.

Sommario/riassunto

This book presents the latest research on plant phenolics, offering readers a detailed, yet comprehensive account of their role in sustainable agriculture. It covers a diverse range of topics, including extraction processes; the role of plant phenolics in growth and development; plant physiology; post-harvesting technologies; food preservation; environmental, biotic and abiotic stress; as well as nutrition and health. Further the book provides readers with an up-to-date review of this dynamic field and sets the direction for future research. Based on the authors' extensive experience and written in an engaging style, this highly readable book will appeal to scholars from various disciplines. Bringing together work from leading international researchers, it is also a valuable reference resource for academics, researchers, students and teachers wanting to gain insights into the role of plant phenolics in sustainable agriculture.
