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Titolo	Advances in Wheat Breeding : Towards Climate Resilience and Nutrient Security // edited by Nusret Zencirci, Fahri Altay, Faheem S. Baloch, Muhammad Azhar Nadeem, Ndiko Ludidi
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Soggetti	Agricultural biotechnology Agricultural genome mapping Agriculture Botany Agricultural Biotechnology Agricultural Genetics Plant Science Blat Control biològic Biotecnologia agrícola Llibres electrònics
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1: Wheat Production Trends and Research Priorities: A Global Perspective -- Chapter 2: Winter wheat research in Turkey -- Chapter 3 SPRING WHEATS -- Chapter 4: IMPACT of ABIOTIC STRESSES on WHEAT GROWTH and ADAPTATION -- Chapter 5: Fungal and Bacterial Diseases of Wheat -- Chapter 6: Virus Diseases of Wheat and Control Strategies -- Chapter 7 Plant Parasitic Nematodes of Wheat -- Chapter 8 : Wheat Insect Pests -- Chapter 9: Wheat Quality -- Chapter 10: Antioxidants in Bakery Products -- Chapter 11: Climate Change & Wheat (Triticum spp.) -- Chapter 12: Wheat Genetic Resources -- Chapter 13: Recent Technologies in Wheat Breeding -- Chapter 14: Wheat Biotechnology -- CHAPTER 15: MARKER ASSISTED SELECTION IN WHEAT -- Chapter 16 -

Wheat Biofortification: A Promising Approach to Improve Public Health -- Chapter 17: Hybrid Wheat: Current Challenges and Future Perspectives -- Chapter 18 Celiac Disease: Myth or Reality -- Chapter 19 Genomic Selection-Driven Wheat Breeding for Superior Genotypes: Status Quo and Future Steps.

Sommario/riassunto

This edited book addresses the introduction to wheat, advancements in breeding, the contribution of biotechnological approaches, the development of climate-resilient wheat cultivars, and biofortification efforts to create nutrient-rich wheat cultivars. The world faces simultaneous challenges of a growing population and climate change. It is anticipated that the world population will exceed 9 billion by 2050. Meanwhile, climate change significantly impacts agriculture through uneven patterns, expected to worsen in the coming years, resulting in substantial losses due to biotic and abiotic stresses. Wheat, a staple food for millions worldwide, requires more studies to develop climate-resilient cultivars with improved nutritional content. Given these considerations, it is crucial to understand the activities conducted for wheat breeding and address the current gap to ensure an ample food supply for future generations. This book is beneficial for researchers, teachers, agriculturists, biologists, climate change scientists, and organizations involved in wheat breeding. It also serves as a valuable resource for undergraduate, master, and PhD students interested in wheat.
