

1. Record Nr.	UNINA9910349456403321
Titolo	Genomics Assisted Breeding of Crops for Abiotic Stress Tolerance, Vol. II // edited by Vijay Rani Rajpal, Deepmala Sehgal, Avinash Kumar, S.N. Raina
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-99573-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIV, 260 p. 20 illus., 9 illus. in color.)
Collana	Sustainable Development and Biodiversity, , 2352-474X ; ; 21
Disciplina	581.35
Soggetti	Plant genetics Plant breeding Agriculture Biotechnology Evolutionary biology Plant Genetics and Genomics Plant Breeding/Biotechnology Evolutionary Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Progress towards identification of candidate genes for abiotic stress tolerance in wheat -- 2. Genomics and molecular breeding for improving tolerance to abiotic stress in barley -- 3. Genomics-Assisted Selection for Drought Tolerance in Maize -- 4. Genomics-assisted breeding for enhanced drought tolerance in chickpea (<i>Cicer arietinum</i> L.) -- 5. Genomics assisted approaches for improving abiotic stress tolerance in forage grasses -- 6. Genomics-Assisted Breeding for Drought Tolerance in Cowpea -- 7. Hybrid wheat and abiotic stress tolerance -- 8. Innovative role of DH breeding in genomics assisted-crop improvement: focus on drought tolerance in Wheat -- 9. Field Phenotyping Strategies for Peanut to Drought and Molecular Markers for Crop Improvement -- 10. Developing Climate Resilient Versions of Popular Rice Varieties by Genomics-Assisted Backcross Breeding -- 11. Genomics based approaches for enhancing abiotic stress tolerance in

rice -- 12. QTLs for abiotic stress resistance and their effectiveness for breeding in rice -- 13. Molecular aspects of responses to cold stress in temperate fruit crops with emphasis on Rosaceae species -- 14. Genomics-assisted breeding of foxtail millet (*Setaria italica*) -- 15. Genomics of abiotic stress tolerance in soybeans -- 16. Genetics and Genomics of Stomatal and Epidermal Cell Traits for Improving Drought Tolerance in cereals -- 17. Genomics of abiotic stress response and management in sugarcane.

Sommario/riassunto

Abiotic Stress Tolerance Related Genomics-assisted Breeding for Crop Improvement Volume 2 is a compilation of the status of genomics-assisted breeding in various crops in the era of high throughput genotyping and phenotyping platforms. How scientists have utilized these new platforms on their germplasm for identification of novel genes and alleles for abiotic stress tolerance is described. The articles in the book include topics specifically in the areas of genetics and genomics of stomatal traits for improving drought tolerance, genomics-based approaches for improving abiotic stress tolerance, quantitative trait loci (QTL) mapping and association mapping for abiotic stress tolerance related traits and candidate genes for abiotic stress tolerance. In addition, chapters have been included on innovative role of double haploids in genomics-assisted crop improvement for abiotic stress tolerance. Overall, the collation will be very useful to scientists working in similar areas as well as to graduate and undergraduate students who want to get information of QTLs, genes etc. for a particular crop at one place. .
