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Note generali	Description based upon print version of record.
Nota di contenuto	Deciphering Drought Tolerance in Tall Fescue [ <i>Lolium arundinaceum</i> -- Evaluation of perennial ryegrass association mapping population for freezing tolerance traits -- Tools for Accelerating Genetic Gain in Brachiagrass at CIAT -- A new red clover 2,4-D-resistant cultivar to improve broadleaf weed control and elucidate the molecular mechanism of resistance -- Variation in genome size, germination and establishment of Iranian wild <i>Festuca arundinacea</i> populations under

dry soil conditions -- Genome-wide analysis of AP2/ERF family genes in *Lotus corniculatus* and functional characterization of LcERF054 and LcERF080 in *Arabidopsis* -- Elucidating transcripts responsive to Zn-deficiency in *Agrostis* species -- Candidate gene approach in *Miscanthus* spp. for biorefinery -- Genetic diversity in candidate genes for developmental traits and cell wall characteristics in perennial ryegrass -- Advances in forage and turf biotechnology in China -- Estimation of genetic components in half-sib family populations of alfalfa -- Use of genetic diversity on SSR markers to increase forage yield in timothy -- Single nucleotide polymorphism (SNP) markers for allele quantification in *Lolium* (Poaceae): Development and first applications -- Origins of diploid *Dactylis* from China as determined by DNA sequencing.- A Study on Cold Tolerance Transgenic Alfalfa *Medicago sativa* L. with the AmDHN Gene -- The Intron in an Albumin gene from Sunflower Increases expression of SFA8.

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### Sommario/riassunto

This proceeding covers all of the collected research data and presentations from the 8th International Symposium on the Molecular Breeding of Forage and Turf. This book explores themes in molecular breeding of forage and turf, including abiotic and biotic stresses, bioenergy and biorenewables, comparative genomics, emerging tools for forage and turf research, and functional genetics and genomics. This work also analyzes genetic mapping of germplasm, diversity and its impact on breeding, herbage quality, plant-microbe interactions, and risk assessment of transgenic plants. Written by renowned researchers in plant genomics, *Molecular Breeding of Forage and Turf: The Proceedings of the 8th International Symposium on the Molecular Breeding of Forage and Turf* is a valuable resource for researchers and students in the field of plant genomics.

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