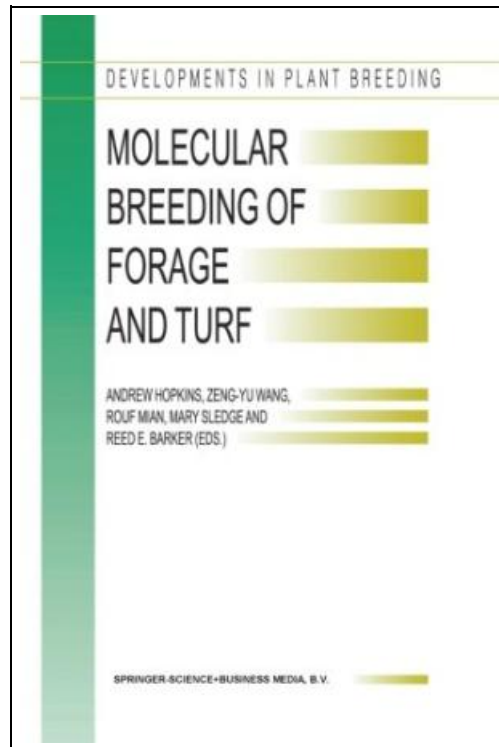


Molecular Breeding of Forage and Turf



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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the 3rd International Symposium, Molecular Breeding of Forage and Turf, Dallas, Texas, and Ardmore, Oklahoma, U.S.A., May, 18-22, 2003 | Proceedings of the 3rd International Symposium, Molecular Breeding of Forage and Turf, Dallas, Texas, and Ardmore, Oklahoma, USA, May 18-22, 2003 | Forage and turf are the backbone of sustainable agriculture and contribute extensively to the world economy. The fast-paced advancement of cellular and molecular biology provides novel methods to accelerate or complement conventional breeding efforts. This book contains the most comprehensive reviews on the latest development in applications of molecular techniques for the improvement of forage grasses, forage legumes and turf grasses. Detailed accounts and future opportunities in molecular breeding of forage and turf, from gene discovery to development of improved cultivars, are described in the book. Almost all relevant areas are explored in detail, including tolerance to biotic and abiotic stresses; flowering control; plant-symbiont relations; breeding for animal, human and environmental welfare; molecular markers; transgenics; bioinformatics; population genetics; genomics of the model legume *M. truncatula*; field testing and risk assessment as well as intellectual property rights. This book will be of interest to researchers in both academia and industry who are involved in forage and turf improvement. It will be especially important to breeders, molecular biologists, geneticists, physiologists and agronomists. | Overview of Forage and Turf Biotechnology.- Molecular Improvement of Forages - from Genomics to GMOs.- Tolerance to Biotic Stress.- Molecular Breeding and Functional Genomics for Tolerance to Biotic Stress.- QTL Mapping of Gray Leaf Spot Resistance in Ryegrass, and Synteny-based Comparison with Rice Blast Resistance Genes in Rice.- Differential Gene Expression in Bermudagrass Associated with Resistance to a Fungal Pathogen.- Genetic Diversity and Pathogenicity of the Grass Pathogen *Xanthomonas translucens* pv. *graminis*.- Tolerance to Abiotic Stress.- Molecular Breeding...

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