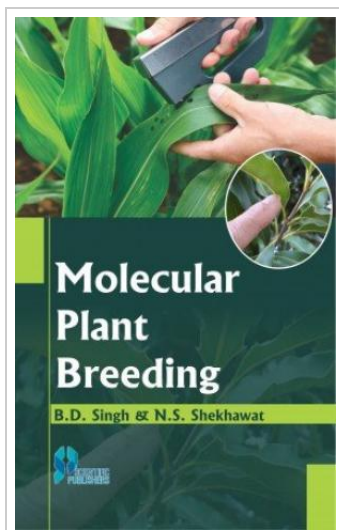




Molecular Plant Breeding

By B.D. Singh and N.S. Shekhawat

Scientific Publisher, 2017. Soft cover. Condition: New. 1st Edition. Contents: I. General: 1. Introduction. 2. The Relevance of Genetics and Genomics in Plant Breeding. 3. Tools of Plant Breeding. 4. Breeding of Self-Pollinated Crops. 5. Breeding of Cross-Pollinated Crops. 6. Breeding for Biotic Stress Resistance. 7. Breeding for Resistance to Abiotic Stresses. 8. Breeding for Quality Traits. II. Transgenic technology: 9. The Basic Techniques of Transgenic Technology. 10. Transgenic Plants for Resistance to Biotic and Abiotic Stresses. 11. Transgenic Plants with modified Quality and other Novel Traits. 12. Biosafety Issues Related to and Adoption of Transgenic Crops. III. Molecular Markers: 13. Molecular Marker Systems and Trait Phenotyping. 14. Marker-Trait associations. The discipline of plant breeding has undergone transformation due to the assimilation of the rapid developments in molecular biology. The existing books on plant breeding deal mainly with the classical approaches, while specialized books on molecular approaches usually lack discussion of the classical methods. The book Molecular Plant Breeding attempts to present the complete picture of plant breeding ranging from the classical to the molecular approaches applied to crop improvement. The book is divided into four sections: Classical Plant Breeding, Transgenic technology, Molecular Markers, and Miscellaneous. The first section deals with the classical plant...



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