



Plant Biotechnology in Ornamental Horticulture

Yi Li, Yan Pei

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Find out how biotechnology can produce more nutritious fruits and vegetables, more colorful flowers, and grass that needs less water—and mowing!

Plant Biotechnology in Ornamental Horticulture presents an in-depth overview of the key scientific and technical advances, issues, and challenges in one of the fastest growing segments of the agriculture industry. This comprehensive book covers 19 different topics related to the use of transgenic plant technology to improve ornamental plants, ranging from metabolic engineering of flower color and scent to improving cold, drought, and disease tolerance in horticultural and ornamental crops to the economics of horticultural biotechnology.

Horticulture provides color and flavor to the foods we eat and variety to the products we use, and helps us sustain a healthy environment. Plant Biotechnology in Ornamental Horticulture examines the importance of biotechnology in cultivating garden crops—including fruits, vegetables, flowers, and ornamentals such as plants used for landscaping—by reducing pesticide use, reducing soil erosion, and developing plants with improved nutrition. Leading educators and horticultural professionals address important current and future topics, including micropropagation and regeneration, the use of molecular techniques for genetic improvement, molecular-assisted breeding, abiotic stress, the development of disease resistance, protection from insects, herbicide tolerance, controlled flowering, modifying color and fragrance, plant architecture, and senescence.

Plant Biotechnology in Ornamental Horticulture examines:

- * ornamental plant transformation
- * molecular phylogeny
- * drought response and drought tolerance engineering
- * transgenic approaches to viral, bacterial, and fungal disease resistance
- * vegetable propagation by cuttings
- * the promotion of flowering
- * molecular aspects of leaf morphogenesis
- * transgenic manipulation
- * controlling invasive plants
- * plant hormones, including ethylene, gibberellins (GAs), auxin, cytokinin, and abscisic acid (ABA)
- * and much more

Plant Biotechnology in Ornamental Horticulture is essential reading for plant breeders, physiologists, agronomists, molecular biologists, cropping system specialists, as well as for educators and students involved in horticulture.

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