



1st ed. 2016, VIII, 165 p. 6 illus., 5 illus. in color.

Printed book

Hardcover

139,99 € | £119.99 | \$169.99

^[1]149,79 € (D) | 153,99 € (A) | CHF 165,50

Softcover

139,99 € | £119.99 | \$169.99

^[1]149,79 € (D) | 153,99 € (A) | CHF 165,50

eBook

117,69 € | £95.50 | \$129.00

^[2]117,69 € (D) | 117,69 € (A) | CHF 132,00

Available from your library or springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

H. Ezura, T. Ariizumi, J. Garcia-Mas, J. Rose (Eds.)

Functional Genomics and Biotechnology in Solanaceae and Cucurbitaceae Crops

Series: Biotechnology in Agriculture and Forestry

- Provides both basic and detailed technical information on Solanaceae and Cucurbitaceae research and breeding
- Intended to help improve global food security
- Supplemented with rich illustrations throughout

This volume summarizes recent technological advances in the design and engineering of Solanaceae and Cucurbitaceae crops. It begins with contributions on the tomato and melon genome sequence, databases for Solanaceae and Cucurbitaceae research, DNA markers in the breeding of the two families, and mutant resources and TILLING platforms in tomato research. Subsequent chapters address the use of molecular techniques for the modification of important breeding traits, such as tomato fruit set, growth, ripening, and sugar accumulation, as well as disease and insect resistance in melons. The volume closes with chapters on genome editing using artificial nucleases as a future breeding tool, and on the development of an in silico crop design system. It offers a valuable resource for plant breeders, molecular biologists, and agronomists.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

