Contents

Preface vii
About the Editor ix
Contributors xi

Chapter 1 Molecular Systematics and Evolution 1
Marcus A. Koch and Ihsan A. Al-Shehbaz

Chapter 2 Phylogeny of *Brassica* and Wild Relatives 19
Suzanne I. Warwick and Jocelyn C. Hall

Chapter 3 Biology and Ecology of Wild Crucifers 37
Aditya Pratap and S.K. Gupta

Chapter 4 Floral Variation in the Subtribe Brassicinae with Special Reference to Pollination Strategies and Pollen-Ovule Ratios 69
Yoshihito Takahata

Chapter 5 Breeding Methods 79
S.K. Gupta and Aditya Pratap

Chapter 6 Self-Incompatibility 99
Hiroyasu Kitashiba and Takeshi Nishio

Chapter 7 Wild Germplasm and Male Sterility 113
Shyam Prakash, S.R. Bhat, and Ting-Dong Fu

Chapter 8 Plant–Insect Interaction 129
D.P. Abrol

Chapter 9 Seed Dormancy and Viability 151
M.S. Naeem, D. Liu, R. Raziuddin, G.L. Wan, G.X. Tang, and W.J. Zhou

Chapter 10 Comparative Cytogenetics of Wild Crucifers *(Brassicaceae)* 177
Martin A. Lysak

Chapter 11 Distant Hybridization 207
Yukio Kaneko, Sang Woo Bang, and Yasuo Matsuzawa

Chapter 12 Phytoalexins 249
M. Soledade C. Pedras and Qingan Zheng

Chapter 13 Introgression of Genes from Wild Crucifers 261
Hu Qiong, Li Yunchang, and Mei Desheng

Chapter 14 Biotechnology 285
Vinitha Cardoza and C. Neal Stewart, Jr.

Chapter 15 Microsporogenesis and Haploidy Breeding 293
Aditya Pratap, S.K. Gupta, and Y. Takahata

Chapter 16 Genetic Improvement in Vegetable Crucifers 309
Pritam Kalia

Chapter 17 Industrial Products 343
Carla D. Zelmer and Peter B.E. McVetty

Chapter 18 Collection, Preservation, and Distribution of Wild Genetic Resources 361
César Gómez-Campo

Index 375