

Contents

<i>Preface to the Series</i>	v
<i>Preface to the Volume</i>	xi
<i>List of Contributors</i>	xv
<i>Abbreviations</i>	xxi
1. Introduction—Oilseed Brassicas	1
<i>Alice Hayward</i>	
2. Brassica Genome Evolution: Dynamics and Plasticity	14
<i>Piotr A. Ziolkowski, Małgorzata Kaczmarek, Danuta Babula-Skowrońska and Jan Sadowski</i>	
3. Diversity and Taxonomy of Brassica Oil Crops	47
<i>Guusje Bonnema</i>	
4. Classical Genetics and Traditional Breeding	73
<i>Gerhard Rakow</i>	
5. Molecular Linkage Maps: Strategies, Resources and Achievements	85
<i>Krishna K. Gali and Andrew G. Sharpe</i>	
6. Physical Mapping in Brassica Species	130
<i>Zahra K. Navabi and Isobel A.P. Parkin</i>	
7. Genome Sequencing Initiatives	152
<i>David Edwards and Xiaowu Wang</i>	
8. Mutagenesis	158
<i>Jun Zou, Nian Wang and Jinling Meng</i>	
9. Brassica Proteomics and Metabolomics	174
<i>Julia Kehr and Anja Buhtz</i>	
10. Role of Bioinformatics as a Tool for Oilseed Brassica Species	194
<i>Michal Lorenc, Zoran Boskovic, Jiri Stiller, Chris Duran and David Edwards</i>	

11. Comparative Genomics in the Brassicales: Ancient Genome Duplications, Glucosinolate Diversification and Pierinae Herbivore Radiation	206
<i>M. Eric Schranz, Patrick P. Edger, J. Chris Pires, Nicole M. van Dam and Christopher W. Wheat</i>	
12. Towards Genomic Selection in Oilseed Brassica	219
<i>Wallace A. Cowling, Brian R. Cullis, Cameron P. Beeck and Matthew N. Nelson</i>	
13. Abiotic Stress Tolerance of the Brassica Oilseeds	230
<i>Stephen J. Robinson, Isobel A.P. Parkin and Jas Singh</i>	
14. Genetics and Genomics of Disease Resistance	276
<i>Régine Delourme, Martin J. Barbetti, Rod Snowdon, Jianwei Zhao and Maria J. Manzanares-Dauleux</i>	
15. Genetics and Genomics of Insect Resistance in Brassicaceae Crops	319
<i>Dwayne D. Hegedus and Martin Erlandson</i>	
16. Future Prospects for Brassica Oilseed Improvement through Genomics	373
<i>C.E. Don Palmer and Wilf A. Keller</i>	
<i>Index</i>	399
<i>Color Plate Section</i>	401