

Contents

Preface to the Series	v
Preface to this Volume	vii
List of Contributors	xi
1. Molecular Phylogenetics, Evolution and Population Biology in Brassicaceae	1
Marcus Koch	
2. Evolutionary Dynamics of Repetitive DNA Fraction in Two Wild Triticeae Species	37
Alexander Belyayev, Olga Raskina and Eviatar Nevo	
3. Hybridization and Evolution of the nrITS Spacer Region	57
Volker Wissemann	
4. Gene Families and Their Evolution in Angiosperms: ABC Transporter Genes in <i>Arabidopsis thaliana</i>	73
H. Üner Kolukisaoglu	
5. Cladistic Analysis of Chloroplast <i>rbcL</i> Gene and <i>trnL-trnF</i> Intergenic Spacer Sequences in Taxaceae and Related Taxa	103
Ting Wang, Ying-Juan Su, Bo Zheng, Xue-Yan Li, Qing-lu Zeng, Li-jia Qu, and Hong-Ya Gu	
6. Genome Phylogenetics in <i>Chrysanthemum</i> <i>sensu lato</i>	117
Katsuhiko Kondo, Magdy Hussein Abd El-Twab, Reiko Idesawa, Shino Kimura and Ryuso Tanaka	

7. Use of Repeated and Coding DNA Sequences to Study Genetic Relationships in Genus <i>Helianthus</i>	201
A. Cavallini, S. Santini, T. Giordani and L. Natali	
8. Cytogenetic and Molecular Genetic Evidence on Evolution of Genus <i>Triticum</i>	223
Wenguang Cao	
9. Hybrid Introgression in <i>Betula</i>	249
Kesara Ananthawat-Jónsson	
10. Molecular Systematics of Bryophytes in Context of Land Plant Phylogeny	267
Dietmar Quandt and Michael Stech	
11. The Use of <i>in situ</i> Hybridization to Investigate Plant Chromosome Diversity	297
Paul Maxwell Datson and Brian Grant Murray	
12. Molecular Phylogenetic Studies in Rosaceae	319
Daniel Potter	
Authors Index	353
Detailed Contents	379