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Altri autori (Persone)	GuptaSurinder Kumar
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Nota di contenuto	1. The Importance, Origin, and Evolution - Surinder K. Gupta -- 2. Molecular Cytogenetics - Annaliese Mason -- 3. Distant Hybridization Involving Different In Vitro Techniques - Dan Liu, Ling Xu, Xinxin Geng, Yuanfei Zhou, Zhenchao Zhang, Bing Wang, and Weijun Zhou -- 4. Microspore Culture and Double Haploid Technology - Yoshihito Takahata, Yu Takahashi, and Ryo Tsuwamoto -- 5. Biotechnological Strategies for Enhancing Phytoremediation - Bhawana Pathak, Razia Khan, Jyoti Fulekar, and M. H. Fulekar -- 6. Genome Analysis - Graham King -- 7. Genetic Engineering of Lipid Biosynthesis in the Seeds - Stacy D. Singer, Michael S. Greer, Elzbieta Mietkiewska, Xue Pan, and Randall J. Weselake -- 8. Metabolism and Detoxification of Phytoalexins from Crucifers and Application to the Control of Fungal Plant Pathogens - M. Soledade C. Pedras -- 9. Molecular Basis of Cytoplasmic Male Sterility- Jinghua Yang and Mingfang Zhang -- 10. Self-Incompatibility - Hiroyasu Kitasiba and Takeshi Nishio -- 11. Hybrid Technology in Cruciferous Vegetables - Muhammad Awais Ghani, Lang Lang Zhang, Junxing Li, Bin Liu, and Liping Chen.-12. Genetic Modifications for Pest Resistance - Hongbo Liu, Bizeng Mao, Peng Cui, Tian Tian, Changrong Huang, Xi Xu, and Weijun Zhou.
Sommario/riassunto	The understanding of genetic material (DNA/RNA) and its manipulation by scientists has provided the opportunity to improve crucifers by increasing its diversity beyond conventional genetic limitations. The application of the biotechnological techniques will have major impacts in two ways: first, it provides a number of techniques/methods for efficient selection for favorable variants and second, it gives an

opportunity to utilize alien variation available in the crucifers by using the novel techniques of biotechnology to develop high yielding varieties with good nutritional quality, having resistance to insect, pest, and disease resistance. Biotechnology of Crucifers will benefit students, nutritionists, and biotechnologists, as well as researchers engaged in improvement of Brassicas.
