



Biotechnology of Crucifers

By Gupta, Surinder Kumar

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book examines recent advances in the field and looks to the future of genetic engineering and manipulation. It will benefit students, nutritionists, and biotechnologists, as well as researchers engaged in the improvement of Brassicas. | Despite the recent advances made in the improvement of crucifer crops using conventional breeding techniques, the yield levels and the oil and meal quality could not be improved as expected. 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. | 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...



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