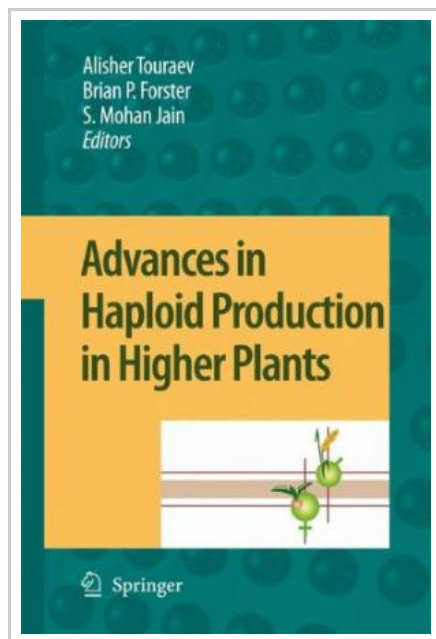




Advances in Haploid Production in Higher Plants

By Alisher Touraev

Springer-Verlag Gmbh Dez 2008, 2008. Buch. Book Condition: Neu. 254x178x26 mm. Neuware - The importance of haploids is well known to geneticists and plant breeders. The discovery of anther-derived haploid *Datura* plants in 1964 initiated great excitement in the plant breeding and genetics communities as it offered shortcuts in producing highly desirable homozygous plants. Unfortunately, the expected revolution was slow to materialise due to problems in extending methods to other species, including genotypic dependence, recalcitrance, slow development of tissue culture technologies and a lack of knowledge of the underlying processes. Recent years have witnessed great strides in the research and application of haploids in higher plants. After a lull in activities, drivers for the resurgence have been: (1) development of effective tissue culture protocols, (2) identification of genes controlling embryogenesis, and (3) large scale and wide spread commercial up-take in plant breeding and plant biotechnology arenas. The first major international symposium on 'Haploids in Higher Plants' took place in Guelph, Canada in 1974. At that time there was much excitement about the potential benefits, but in his opening address Sir Ralph Riley offered the following words of caution: 'I believe that it is quite likely that haploid research will...



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