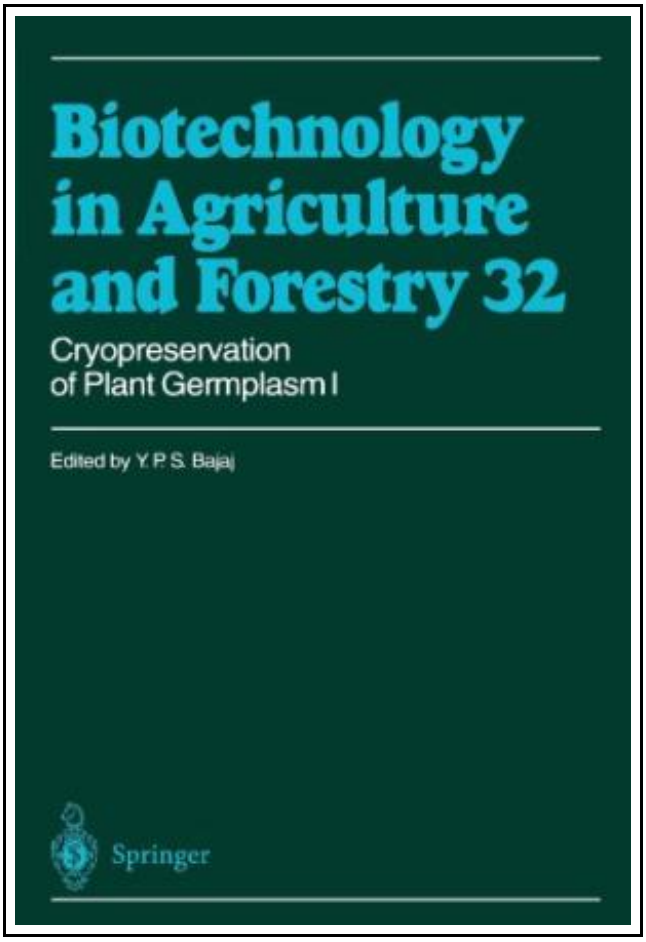
Cryopreservation of Plant Germplasm: Vol. 1



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Reviews

It is great and fantastic. I actually have read and so i am certain that i am going to going to go through once again yet again in the future. I realized this ebook from my dad and i encouraged this book to find out.

(Dr. Kayden Gerlach)

CRYOPRESERVATION OF PLANT GERMPLASM: VOL. 1

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Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2010. Paperback. Book Condition: New. 1st ed. Softcover of orig. ed. 1995. 235 x 159 mm. Language: English . Brand New Book ***** Print on Demand *****.The germ plasm of numerous plant species, especially those of forest trees, some agricultural crops, and medicinal plants, is endangered and threatened with extinction. This depletion of germplasm pools and the shrinkage of naturally occurring genetic resources have caused international concern. Conventionally, the germplasm of plants is conserved through seeds, tubers, roots, corms, rhizomes, bulbs, cuttings, etc. However, the germ plasm of a number of trees and plantation crops (such as coconut, cocao, coffee, oil palm, rubber, mango, horse chestnut, etc.) cannot be preserved since their seed are short-lived (recalcitrant). Likewise, germplasm of vegetatively propagated crops (such as potato and cassava) cannot be stored on a long- term basis and has to be grown and multiplied periodically in nurseries and fields. The plants are thus exposed to unpredictable weather conditions and diseases, with the result that instances are known where entire genetic stocks are lost. Therefore, unconventional methods are being developed for the storage and international exchange of germplasm. For this purpose in vitro cultures have been employed, but they can only enable short-to medium-term preservation; moreover, cell cultures upon repeated subculture undergo genetic erosion. In view of the recent developments in the in vitro induction of genetic variability through somaclonal variation, somatic hybridization, recombinant DNA technology, etc. , new methods need to be employed for the storage of desirable cultures. In this regard freeze preservation of cells in liquid nitrogen (-196 0q, like that of semen, enables long-term storage, theoretically, for an indefinite period of time.

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