

Biotechnology in Agriculture and Forestry 2

Crops I

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Crops I Biotechnology In Agriculture And Forestry Vol 2

Wallace C. Olsen



Crops I Biotechnology In Agriculture And Forestry Vol 2:

Wheat Y. P. S. Bajaj, 2013-03-09 Wheat which is the second most important cereal crop in the world is being grown in a wide range of climates over an area of about 228 945 thousand ha with a production of about 535 842 MT in the world Bread wheat *Triticum aestivum* L accounts for 80% of the wheat consumption however it is attacked by a large number of pests and pathogens rusts and smuts cause enormous damage to the crop and reduce the yield drastically in some areas The major breeding objectives for wheat include grain yield earliness resistance to lodging and diseases spikelet fertility cold tolerance leaf duration and net assimilation rate fertilizer utilization coleoptile length nutritional value organoleptic qualities and the improvement of characters such as color and milling yield The breeding of wheat by traditional methods has been practiced for centuries however it has only now come to a stage where these methods are insufficient to make any further breakthrough or to cope with the world's demand Although numerous varieties are released every year around the world they do not last long and long term objectives cannot be realized unless more genetic variability is generated Moreover the introduction of exotic genetic stocks and their cultivation over large areas results in the depletion and loss of the native germplasm pool

High-Tech and Micropropagation III Y. P. S. Bajaj, 2013-04-17 Presenting the state of the art of tissue culture and in vitro propagation of vegetable and tuber crops medicinal and aromatic plants fibre and oilseed crops and grasses this book complements the previous two volumes on High Tech and Micropropagation which concentrated on special techniques Vol 17 and trees and bushes of commercial value Vol 18 The specific plants covered here include asparagus lettuce horse radish cucumber potato cassava sweet potato artichoke yams cardamom fennel celery thyme leek mentha turmeric lavender agave yucca cotton jute sunflower ryegrass zoysiagrass and various species of *Aconitum* *Artemisia* *Camelia* *Centaureum* *Digitalis* *Dioscorea* *Glehnia* *Levisticum* *Parthenium* and *Pinella* The book is of use to advanced students teachers and research workers in the field of pharmacy horticulture plant breeding and plant biotechnology in general and also to individuals interested in industrial micropropagation

Haploids in Crop Improvement I Y. P. S. Bajaj, 2012-12-06 Haploid plants have the gametophytic number of chromosomes They are of great importance especially in studies on the induction of mutations and also for the production of homozygous plants they are needed in large numbers The conventional methods employed by plant breeders for their production are cumbersome time consuming laborious and rather inefficient Sometimes it may take years to produce a pure line However with the introduction of in vitro techniques especially anther culture for the induction of androgenesis it has become increasingly evident that these methods considerably accelerate the production of haploids for plant breeding programs During the last decade in vitro produced haploids have been incorporated into breeding programs of many agricultural crops and positive results have been obtained especially with rice wheat potato barley maize asparagus sunflower brassica tobacco etc Among these rice and wheat are the best examples in which a number of improved varieties have been released In wheat the breeding cycle can be shortened by three or four generations

when the pollen haploid breeding method is used instead of conventional cross breeding The release of the wheat varieties Jinghua 1 and Florin is a typical example of what can be achieved with other crops Taking these developments into consideration the present volume Haploids in Crop Improvement I was compiled Transgenic Crops IV Eng Chong Pua, Michael R. Davey, 2007-05-22 This volume presents the current knowledge of plant biotechnology as an important tool for crop improvement It covers cereals vegetables root crops herbs and spices This volume is an invaluable reference for plant breeders researchers and graduate students in the fields of plant biotechnology agronomy horticulture genetics and both plant cell and molecular biology

Micropropagation of Woody Plants M.R. Ahuja, 2013-06-29 This volume covers recent advances in the vegetative propagation of woody plants by tissue culture A wide range of topics relevant to micropropagation of woody plants are discussed by renowned international scientists These include cellular control of morphogenesis light regimes in tissue culture maturation and rejuvenation synthetic seed genetics of micropropagated plants haploid embryogenesis protoplast culture and acclimatization of ex vitro woody plants In addition to micropropagation of selected woody plants both gymnosperms and angiosperms this volume also includes in vitro genetic selection strategic planning for application of biotechnology for genetics and breeding and clonal options for woody plant improvement A balanced view of both perspectives and limitations of woody plant micropropagation is presented Tissue Culture as a Plant Production System for Horticultural Crops Richard H. Zimmerman, 1986-07-31 Conference on Tissue Culture as a Plant Production System for Horticultural Crops Beltsville MD October 20 23 1985

The Literature of Crop Science Wallace C. Olsen, 1995 A reference based largely on the Core Agricultural Literature Project at the Albert R Mann Library Cornell U which over six years identified the most useful current literature in the field of agriculture for university level instruction and research An historical component has also been added

Plant Tissue Culture Sant Saran Bhojwani, Vibha Dhawan, Renu Arora, 1990 The first volume of this Plant Tissue Culture PTC bibliography published in 1986 covered the literature from 1900 to 1985 This supplement to the PTC bibliography covers the papers and books published in the period 1986 1989 with some references of 1985 and before which were not available when the original volume was compiled The detailed Introduction to this volume includes a table with a graphic presentation of the trend of research in the field of PTC during this 5 year period It is interesting to note that during the past five years alone about 6000 papers have been published which is almost half of the literature published from 1900 to 1985 Another table lists the periodicals and their respective volumes surveyed for this book Appended is an Index to Plant Names which facilitates the search of the literature either subject wise or species crop wise

Breeding Plantation Tree Crops: Tropical Species Shri Mohan Jain, P.M. Priyadarshan, 2008-10-08 Tree species are indispensable to support human life Due to their long life cycle and environmental sensitivity breeding trees to suit day to day human needs is a formidable challenge Whether they are edible or industrial crops improving yield under optimal sub optimal and marginal areas calls for united efforts from the scientists around the world

While the uniqueness of coconut as kalpavriksha Sanskrit meaning tree of life marks its presence in every continent from Far East to South America tree crops like cocoa oil palm rubber apple peach grapes and walnut prove their environmental sensitivity towards tropical sub tropical and temperate climates Desert climate is quintessential for date palm Thus from soft drinks to breweries to beverages to oil to tyres the value addition offers a spectrum of products to human kind enriched with nutritional environmental nancial social and trade related attributes Taxonomically tree crops do not confine to a few families but spread across a section of genera an attribute so unique that contributes immensely to genetic biodiversity even while cultivated at the commercial scale Many of these species in vogue other or to nurture in their vicinity thus ensuring their integrity in preserving the genetic biodiversity While wheat rice maize barley soybean cassava and banana make up the major food staples many fruit tree species contribute greatly to nutritional enrichment in human diet The edible part of these species is the source of several nutrients that makes additives for the daily diet of humans for example vitamins sugars aromas and flavour compounds and raw material for food processing industries Tree crops face an array of agronomic and horticultural problems in propagation yield appearance quality diseases and pest control abiotic stresses and poor shelf life *Crops I* Y. P. S. Bajaj, 1986 Subject Guide to Books in Print, 2001 **Australian Journal of Plant Physiology**, 1991 Technical Bulletin, 1991 **Acta Agronomica Hungarica**, 1986 **Bulletin of the Polish Academy of Sciences**, 1988 **Optics in Agriculture and Forestry** James A. DeShazer, George E. Meyer, 1993 *Handbook of Plant Cell Culture* David A. Evans (généticien).), Zhenghua Chen, William R. Sharp, 1983 **Scientific and Technical Books and Serials in Print**, 1989 **Agricultura Tropica Et Subtropica**, 1997 **Somatic Embryogenesis and Synthetic Seed** Y. P. S. Bajaj, 1995

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