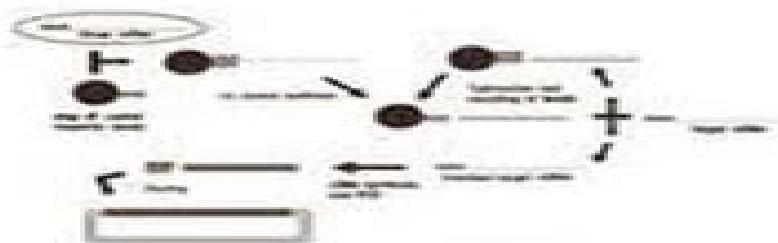


FORESTRY SCIENCES

Somatic Cell Genetics and Molecular Genetics of Trees

**M. Raj Ahuja
Wout Boerjan
David B. Neale
editors**



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Somatic Cell Genetics And Molecular Genetics Of Trees

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Somatic Cell Genetics And Molecular Genetics Of Trees:

Somatic Cell Genetics and Molecular Genetics of Trees M.R. Ahuja, Wout Boerjan, David B. Neale, 2012-12-06 This proceedings is based on a joint meeting of the two IUFRO International Union of Forestry Research Organizations Working Parties Somatic Cell Genetics S2 04 07 and Molecular Genetics S2 04 06 held in Gent Belgium 26-30 September 1995 Although a joint meeting of the two Working Parties had been discussed in the past this was the first such meeting that became a successful reality. In fact this meeting provided an excellent forum for discussions and interactions in forest biotechnology that encouraged the participants to vote for a next joint meeting. In the past decade rapid progress has been made in the somatic cell genetics and molecular genetics of forest trees. In order to cover recent developments in the broad area of biotechnology the scientific program of the meeting was divided into several sessions. These included somatic embryogenesis, regeneration, transformation, gene expression, molecular markers, genome mapping, and biotic and abiotic stresses. The regeneration of plants produced by organogenesis or somatic embryogenesis is necessary not only for mass cloning of forest trees but also for its application in genetic transformation and molecular biology. Although micropropagation has been achieved from juvenile tissues in a number of forest tree species, in vitro regeneration from mature trees remains a challenging problem in most hardwoods and conifers. The mechanisms involved in the transition from juvenile to mature phase in woody plants are poorly understood. This transition can now be investigated at the molecular level.

Cell Culture

and Somatic Cell Genetics of Plants I. K. Vasil, F. Constabel, 1984 V 1 Laboratory procedures and their applications v 2 Cell growth, nutrition, cytodifferentiation and cryopreservation v 3 Plant regeneration and genetic variability v 4 Cell culture in phytochemistry v 5 Phytochemicals in plant cell cultures v 6 Molecular biology of plant nuclear genes v 7A The molecular biology of plastids v 7B The photosynthetic apparatus molecular biology and operation v 8 Scale up and automation in plant propagation

Forest Genetics, 1996

Cell Culture and Somatic Cell Genetics of Plants: Molecular biology of plant nuclear genes I. K. Vasil, 1984

Cell Culture and Somatic Cell Genetics of Plants I. K. Vasil, 1984 V 1 Laboratory procedures and their applications v 2 Cell growth, nutrition, cytodifferentiation and cryopreservation v 3 Plant regeneration and genetic variability v 4 Cell culture in phytochemistry v 5 Phytochemicals in plant cell cultures v 6 Molecular biology of plant nuclear genes v 7A The molecular biology of plastids v 7B The photosynthetic apparatus molecular biology and operation v 8 Scale up and automation in plant propagation

Acta Physiologiae Plantarum, 1978

Proceedings of the Twenty-sixth Meeting of the Canadian Tree Improvement Association Canadian Tree Improvement Association.

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Genetic

Engin of Plants for Crop Improvement Rup Lal,Sukanya Lal,1993-04-13 Genetic Engineering of Plants for Crop Improvement discusses current genetic engineering methods for plants and addresses the commercial opportunities for transgenic plants Topics covered include Agrobacterium mediated transformations the use of electroporation PEG mediated transformation microinjection the microprojectile bombardment method and the electrical discharge particle acceleration method A concise account of the resistance of transgenic plants to insect attack viral infection and herbicides has also been provided Possibilities for genetic manipulation for proteins that have superior nutritional properties are discussed and a brief account of tests confirming the safety and commercial validity of transgenic plants is included Genetic Engineering of Plants for Crop Improvement provides valuable information for researchers and students in plant biotechnology plant gene manipulation molecular biology and all areas of the life sciences *Journal of Plant Biology* ,2002 *Soviet Genetics* ,1975

Plant Tissue Culture and Biotechnology ,1997 *Proceedings of the Symposium on Biotechnology for Forest Tree Improvement* ,1992 **Who's who in Technology** ,1986 Fifth ed published in 7 vols Who's who in biotechnology Who's who in chemistry Who's who in civil engineering earth sciences Who's who in electronics Who's who in mechanical engineering Who's who in physics and Master index of expertise master index of names **Biology Digest** ,1993

American Journal of Botany ,1998 *Florida Agricultural Research* ,1982 *Catalogs of Courses* University of California, Berkeley,1995 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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