

(Download) Somatic Embryogenesis in Woody Plants: Volume 5 (Forestry Sciences)

## Somatic Embryogenesis in Woody Plants: Volume 5 (Forestry Sciences)

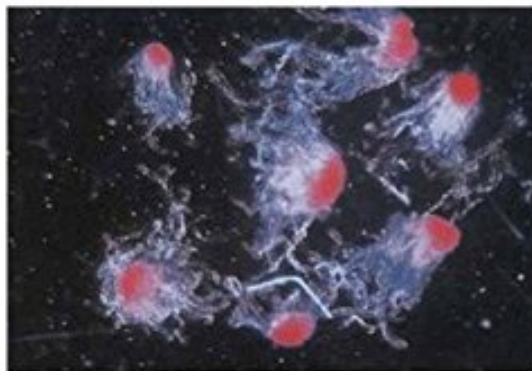
*From Springer*  
*ebooks / Download PDF / \*ePub / DOC / audiobook*

FORESTRY SCIENCES

### Somatic Embryogenesis in Woody Plants

Volume 5

S. Mohan Jain  
Pramod K. Gupta  
Ronald J. Newton  
editors



KLUWER ACADEMIC PUBLISHERS

 Download

 Read Online

#14061250 in Books 2013-02-19 2013-10-03Original language:EnglishPDF # 1 9.45 x .80 x 6.30l, .0 #File Name: 9401060061339 pages | File size: 21.Mb

**From Springer : Somatic Embryogenesis in Woody Plants: Volume 5 (Forestry Sciences)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Somatic Embryogenesis in Woody Plants: Volume 5 (Forestry Sciences):

The quality of human life has been maintained and enhanced for generations by the use of trees and their products. In recent years, ever rising human population growth has put a tremendous pressure on trees and tree products; growing awareness of the potential of previously unexploited tree resources; and environmental pollution have both accelerated the development of new technologies for tree propagation, breeding and improvement. Biotechnology of trees may be the answer to solve the problems which can not be solved by conventional breeding methods. The combination of biotechnology and conventional methods such as plant propagation and breeding could become a novel approach to improving and multiplying a large number of the trees and woody plants. So far, plant tissue culture technology has largely been exploited by commercial companies in propagation of ornamentals, especially foliage house plants. Generally, tissue culture of woody plants has been recalcitrant. However, limited success has been achieved in tissue culture of angiosperm and gymnosperm woody plants. A number of recent reports on somatic embryogenesis in woody plants such as Norway spruce (*Picea abies*), Loblolly pine (*Pinus taeda*), Sandalwood (*Santalum album*), Citrus and mango (*Mangifera indica*), offer a ray of hope for inexpensive clonal propagation for large-scale production of plants or 'emblings' or somatic seedlings; protoplast work; cryopreservation; genetic transformation; and synthetic or artificial or manufactured seed production.