



In Vitro Culture of Trees (Forestry Sciences)

J.M. Bonga, Patrick Aderkas

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Woody plants provide many challenges to the tissue culturist. Although there are many excellent tissue culture books and manuals available, these are generally strongly biased towards herbaceous crops. Consequently, they often do not pay sufficient attention to the problems that specifically apply to *in vitro* culture of tree species. Culture of the latter often poses problems which are either absent or of lesser significance when culturing herbaceous species.

When trees in the field are used as explant source, the problems can be especially severe. For example, the physiological condition of the explants is difficult to control because of variation in weather and biotic factors. Furthermore, it is often difficult to obtain explants free of contaminants from field grown trees. Lack of genetic uniformity and maturation are additional problems one often has to deal with when culturing tree cells or tissues. These problems are emphasized in this text. *In vitro* culture of trees is not viewed in isolation. It is considered in conjunction with breeding, traditional cloning and other common tree improvement techniques. The text discusses theoretical as well as practical aspects of the *in vitro* culture of trees.

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