Biotechnology for *in vitro* propagation of the *Albizia julibrissin* species

Main features

• the technology is intended for the production of planting material of *Albizia julibrissin* (silk tree) through *in vitro* propagation.

• the working methodology consists of inoculating explants (meristems with 1-2 leaf primordia) on culture medium containing MS mineral salts (Murashige - Skoog, 1962), Jacquiot vitamins, supplemented with 0,5 mg/l BAP (benzylaminopurine), 0,1 mg/l GA_3 (gibberellic acid), 1 mg/l ANA (naphthylacetic acid), under sterile conditions in a laminar airflow hood; transfer of explants that have started growing to culture medium containing MS mineral salts, Miller vitamins, supplemented with 0,1 mg/l ANA and 5 mg/l 2iP (2 isopentyladenine) in order to stimulate regeneration and shoot elongation; transfer of regenerated microshoots in the multiplication phase to MS culture medium with mineral salts reduced by half supplemented with 6 mg/l IBA (indolylbutyric acid) in order to induce rhizogenesis; acclimatization and fortification of *in vitro* regenerated plants.

Aspects of *in vitro* culture

Plant acclimatized and fortified in pot