

Studies on Propagation of *Celastrus paniculatus* Willd: An Endangered Medicinal Plant

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Abstract : An experiment was conducted to study the effect of different growth regulators on seed germination and vegetative propagation by cuttings of an endangered medicinal plant species, *Celastrus paniculatus* Willd. at College of Horticulture, Mudigere during June- Sept 2014. Various growth parameters were recorded for seed germination and significantly higher results for Rate of germination (0.78), Plant vigour (2082.74), Plant height (22.10cm), number of leaves (7.83) fresh weight (136.58mg) and dry weight of plant (59.16mg) noticed in seeds treated with GA3 400 ppm when compared to control. In vegetative propagation the cuttings treated with IBA 2000 ppm recorded significantly highest sprouting percentage (98.00) when compared to control (71.00). The results of present investigation will be helpful for large scale multiplication of the species. It will also help for cultivation and conservation of this endangered species.

Keywords : *Celastrus paniculatus* Willd, seeds, germination, cuttings

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