



Original Research Article

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First Report on Success of Stem Cuttings on *Simarouba glauca*, Dc – An Easy Method for Mass Multiplication of Superior Mother Trees

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Developing rapid and improved stem cutting propagation is essential for this promising multipurpose tree borne oilseed species to achieving higher yield and income using superior planting stock in commercial plantation. Present study clearly reveals the effect IBA concentration on success and survival of stem cuttings. Percentage rooting and primary root number differed significantly between treated and untreated cuttings. The treatment (T₄) has cutting treated with IBA at 4000 ppm was the best and most efficient hormonal concentration in simulation of higher sprouting (52.31 %), rooting (45.16 %), root number per cutting (4.12), root length per cutting (6.45 cm) and greater survival (42.56 %) of stem cuttings of *Simarouba glauca*. However, there was significant variation in height growth (shoots sprouts length) of cuttings due to IBA treatments. The results of this study suggested that it is possible to produce clones of high yielding superior genotypes of *S. glauca* on large scale basis for use in commercial cultivation of forestry and agro forestry plantations.