**RESEARCH COMMUNICATION**

**ROOTING RESPONSE OF GUAVA (PSIDIUM GUAJAVA L.) THROUGH CUTTING UNDER GARHWAL HIMALAYAN REGION**

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Abstract: Rooting response of Guava (Psidium guajava L.) through cutting, experiment was done valley region in Garhwal Himalayan. The experiment was laid out in Randomized Block Design (RBD) with three replications. For preparing the rooting media, soil and farm yard manure (FYM) in ratio of 2:1 by v/v were mixed thoroughly, then the mixture was filled in root trainers. Properly prepared hardwood cuttings of about 15-20 cm in length during the month of August were treated with various concentrations of IBA viz., 2000, 3000 and, 4000ppm for 10 second by concentrated solution quick dip method with control, and planted in three different conditions namely Mist chamber, Shade house and open condition. The result shows mist house growing condition was found effective in increasing the rooting performance of the cuttings. The cuttings treated with 4000ppm IBA performed best in all aspects, Survival percentage of cutting, number of sprouts, number of leaves, shoot length, shoot diameter, number of primary root, number of secondary root, root length, root diameter, fresh weight of root, dry weight of root and rooting percentage. Overall treatment G_2C_3 (Mist chamber with 4000 ppm IBA) treatment combination was found best in all parameters taken.

Key words: Guava, IBA, Growing condition, Rooting percentage

**REFERENCES**


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