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RESEARCH ARTICLE

Effects of plant growth hormones on shoot proliferation of *Musa paradisiaca* cv. BANTAL

■ **BANDITA DEO AND BIKRAM PRADHAN**

SUMMARY

The present experiment was conducted to study the effects of three plant growth hormones BAP, kinetin and IAA for the enhancement of shoot proliferation of *Musa paradisiaca*, cv. BANTAL. From the *in vitro* multiplication culture the data analysed on the basis of parameters like percentage of response, days of response, number of shoot buds and number of shoots. Among all BAP with IAA was found to be more effective than kinetin along with IAA. Out of various treatments the optimum concentration for the growth and proliferation of shoot in multiplication phase was found in MS + 4 mg/l BAP + 0.5 mg/l IAA followed by 2 mg/l BAP and 4 mg/l kinetin.

Key Words : *Musa*, Plant growth hormones, Bantal

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