## Effects of BAP and Lighting Duration on Banana (Musa paradisiaca cv. Raja Bulu) Micropropagation

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Abstract	This study aims to determine the best concentration of 6-Benzilaminopurine (BAP) and lighting duration for Raja Bulu banana cultivar micropropagation. The explant was taken from Pagubugan Village, Cilacap Regency, Central Java. The experiment was arranged as a Randomized Completely Block Design (RCBD) with two factors. The first factor was BAP, with concentration used were 0; 2.5; 5; 7.5 mg/L and the addition of Indole-3-acetic acid (IAA) 0.5 mg/L for all treatment. The second factor was lighting treatment. All explants were put in dark incubation for two weeks followed by light duration treatment: 12 hours of light/day and 16 hours of light/day for the next two weeks. The addition of BAP increased the number of shoots, but did not affect time for shoot initiation, shoot height, number of leaves and number of roots. The best BAP concentration was 2.5 mg/L and 7 mg/L after four weeks of incubation and has the potential to become new shoots. Nevertheless, the lighting duration did not affect all observed variables.
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