## Pengaruh asam askorbat, karbon aktif, dan durasi pencahayaan terhadap pencokelatan eksplan dan regenerasi tunas kultur in vitro pisang Barangan (Musa acuminata L.)

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## Abstrak

The research was conducted to determine the effect of ascorbic acid (50 mgl-1, 100 mgl-1, 200 mgl-1) and activated charcoal (0.5 gl-1, 1 gl-1, 2 gl-1) independently with different light duration (4 weeks in darkness, 2 weeks in darkness followed by 2 weeks in 16 hours light and 4 weeks in 16 hours light) on shoot regeneration. Explants of banana cultivar Barangan (Musa acuminata L.) were planted on MS basal media supplemented with 1.6 mgl-1 IAA, 4.0 mgl-1 BAP and cultured for 4 weeks. After 4 weeks, explant browning level was evaluated. Explants were then cut vertically into two pieces and planted on the same media to induce shoot regeneration. After 4 weeks in shoot regeneration media, number of shoot, colour of shoot and height of shoot were evaluated. MS media supplemented with 1.6 mgl-1 IAA and 4.0 mgl-1 BAP without ascorbic acid and activated charcoal in darkness for 4 weeks was the most suitable media for shoot regeneration. The shoot regeneration gave average of 10,4 shoots per explant.

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