

## In vitro Plant Regeneration of *Gonystylus Bancanus* (Miq) Kurz. Through Direct Organogenesis

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**Abstract :** Plant regeneration was achieved from shoot tip and nodal segment of *Gonystylus bancanus* (Miq) Kurz. cultured in Murashige and Skoog's medium supplemented with various concentrations of 6-benzylaminopurine (BAP). The most optimum concentration of BAP for shoot initiation is  $10.0 \text{ mg l}^{-1}$  with approximately 10% of shoot tip and 15% of nodal segment produced single shoot after 28 and 15 days of culture incubation respectively. Rooting was achieved when shoots were transferred into MS medium supplemented with  $5.0 \text{ mg l}^{-1}$  Naphthalene acetic acid (NAA). Synthesizing results developed through this research can be a starting point for the upscaling and optimization process in future.

**Keywords :** gonystylus bancanus, organogenesis, shoot initiation, shoot tip

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