

## **Induction of in vitro flowering in the orchid *Dendrobium Sonia 17*.**

### **Abstract**

In this study, *Dendrobium Sonia 17* plantlets were used to induce in vitro flowering. Inflorescences were induced and rooting was inhibited in the half-strength Murashige and Skoog medium containing 20 $\mu$  MN6-benzyladenine (BA). The medium with high P and low N contents was effective to induce inflorescences while the medium with low P and high N contents was only effective to promote forming of shoots. In addition, the induced in vitro inflorescences were able to multiply and maintain without exhibiting a distinctive vegetative phase. Different morphologies of in vitro flowers such as incomplete flower structures, abnormal and unresupinated in vitro flowers were observed.

**Keyword:** Cytokinin; Phytohormone; Rooting.