

Title Response of alstroemeria plants to NAA, ABA, TDZ, Pacleobutrazol and hinikitiol under *in-vitro* condition

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Abstract

An experiment was conducted to evaluate the effects of NAA, ABA, TDZ, Pacleobutrazol and hinikitiol effects on *in-vitro* regeneration of cut *Alstroemeria aurantifolia* cv. 'Konyambe' flower in 2010. Experiments were arranged in completely randomized designs with five replications. The results of experiment showed that NAA at 4 ppm produced the highest and significant ($P < 0.05$) rhizome number compared to control. In this experiment, hinikitiol at 10 ppm and Pacleobutrazol at 1 and 4 μM did not produce any rhizome. Hinikitiol at 1 ppm produced the highest rhizome length (3.58 cm) compared to control and other treatments. The highest (8.99) and lowest (0.56) leaf number were produced by TDZ at 2 μM and NAA at 4 ppm respectively. However, the highest and lowest leaf loss were produced by hinikitiol at 1 ppm and NAA at 1 ppm respectively.