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Effects of Plant Hormone Treatment on the Growth of Viviparous Seed of *Kandelia candel*

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Abstract: In this study, we examined the effect of some plant hormones on the growth of viviparous seeds of *Kandelia candel* to clarify its growth mechanism. Root growth tended to be promoted by all plant hormones, particularly by gibberellin, abscisic acid and ethylene. High concentrations of Jasmonic acid strongly promoted rooting, and strongly inhibited root and shoot growth. Shoot elongation was strongly promoted by gibberellin and weakly by abscisic acid. We suggested that gibberellin is a useful hormone for controlling the shoot and root growth of viviparous seeds of *K. candel*.

Keywords: *Kandelia candel*, viviparous seed, growth, plant hormones, promote

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