

***The Effect of Various Concentrations Using Growth Regulators on The  
Growth of Vanilla Cuttings (Vanilla planifolia)***  
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**ABSTRACT**

*This study aims to determine the effect of the most appropriate concentration of rootone F on the growth of vanilla cuttings. This research was conducted for 3 months from September 2019 to December 2019. This study uses a randomized block design (RBD), which uses one factor, namely the provision of rootone F concentrations consisting of 6 treatments. The first treatment (R0) without rootone F concentration (control), the second treatment (R1) use 1 gram F rootone concentration, the third treatment (R2) the use of 2 gram F rootone concentration, the fourth treatment (R3) use of 3 gram rootone F concentration, treatment fifth (R4) use of 4 gram rootone F concentration, sixth treatment (R5) use of 5 gram rootone F concentration. Each treatment was repeated 4 times. On parameters of percentage of cuttings, shoot length, percentage of cuttings, number of segments, number of roots, wet weight of seeds and dry weight of seedlings showed different results that were not significant and obtained at rootone F concentration of 1 gram had the highest average tendency on the parameters of shoot length, number of sections, number of roots, fresh weight of seeds and dry weight of seeds but did not have a real effect.*

*Keywords: Vanilla, Rootone F concentration*