***Effects of Shallots Extract Concentration and Prolonged Immersion of The Root Growth of Vanilla Cuttings* (*Vanilla Planifolia* Andrews)**

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## *ABSTRACT*

*Vanilla in Indonesia is growing rapidly due to the arrival of vanilla-based industries, this affects the higher needs of vanilla. One way to meet the needs of vanilla is by propagation that is cuttings. In addition, to support growth, the treatment of the shallots and the length of immersion is required to optimize the success rate. The study was conducted from September 2019 to January 2020. This research was conducted on Jember State Polytechnic land, Mastrip PO BOX 164 road. The study used a randomized design group (RAK) that was structured factorial with two factors. The first factor is the concentration of shallot extract consisting of 4 treatments and the second factor is the length of immersion consisting of 4 treatments so that 16 combinations of treatments are obtained. Each combination of treatment is 3 replays, resulting in 48 trial units. Analysis using BNJ test level 5%. Based on the results and discussion of the study can be concluded that the treatment of the concentration of shallot extract does not have a real effect on all parameters and the treatment of long soaking gives a real influence on the number of segments. As for the influence of the interaction between concentration and length of immersion gives a real influence on the parameters of the number of segments.*

*Key words: Vanilla, Shallot Extract, Long Immersion.*