

**Pengaruh Konsentrasi ZPT Aloe Vera dan Waktu Pemangkasan Terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus L.*). *Effect of Aloe Vera Concentration and Pruning Time on Cucumber (*Cucumis sativus L.*) Seed Production and Quality.* Supervisor : Dr. Ir. Nantil Bambang Eko S, M.Si.**

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### ***ABSTRACT***

*The purpose of this study was to determine the effect of the interaction between PGR (Plant Growth Regulator) Aloe vera concentration and pruning time on the production and quality of cucumber seeds (*Cucumis sativus L.*). This research was conducted from December 2022 to February 2023 which took place in paddy field, Tegalgede Village, Sumbersari, Jember. The experimental design use was a Randomized Group Design (RGD) with two treatment factors, each of which was repeated 3 times. The first factor is the concentration of PGR Aloe vera which consists of 3 level, namely A1 (0%), A2 (20%), A3 (30%). The second factor is pruning time which consists of 3 levels, namely P1 (20 HST), P2 (25 HST), P3 (30 HST). Observation data were statistically analyzed using Analysis of Variance (ANOVA), if the results showed significantly different effects then continued with the Duncan Multiple Range Test (DMRT) at the 5% level. The results showed that the treatment of PGR Aloe vera concentration gave a significantly different effect on the parameters of fruit diameter and fruit weight per plant. The treatment of pruning time gave a significantly different effect on the parameters of fruit diameter, fruit weight per plant, seed weight per plant, number of seeds per plant, weight of 1000 seeds, and seed production per hectare. The treatment interaction between the concentration of PGR Aloe vera and pruning time gave an effect that differed not significantly on all parameters.*

**Key Word** : *Aloe vera, Pruning Time, Cucumber*