

**Pengaruh Umur Pemangkasan Pucuk dan Konsentrasi GA<sub>3</sub> terhadap Produksi dan Mutu Benih Mentimun PMSKE 0405 (*Cucumis sativus* L.).**  
*Effect of Pruning Age and GA<sub>3</sub> Concentration on Production and Seed Quality of Cucumber PMSKE 0405 (*Cucumis sativus* L.). Supervisor : Ir. Sri Rahayu, MP.*

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### **ABSTRACT**

*Improved seed quality can lead to high cucumber productivity. Through shoot pruning techniques combine with the application of gibberellins on cucumber plants, it is expected to improve seed quality. This study aimed to determine the effect of shoot pruning age and GA<sub>3</sub> concentration regulation on fruit yield and seed quality of cucumber (*Cucumis sativus* L.). This research was carried out for 4 months from November 2021 to February 2022. The entire series of research was carried out in Gebang Village, Tenggarang District, Bondowoso Regency. The research used a factorial Randomized Complete Block Design (RCBD) which consisted of 2 factors, namely shoot pruning and gibberellin concentration with 16 treatment combinations and 13 replications. The shoot pruning factor consisted of 4 levels, namely, without pruning, 14 days after planting, 21 days after planting and 28 days after planting. Meanwhile, the concentration of gibberellins consisted of without gibberelin, 75 ppm/liter, 150 ppm/liter and 225 ppm/liter. The data were analyzed using the F test (ANOVA) and continued with the DMRT test with an error rate 5%. The results showed that the pruning age and GA<sub>3</sub> concentration gave the significant effect for almost all parameters. The interaction between pruning age 28 days after planting and GA<sub>3</sub> concentration 75 ppm/liter has significant effect on the parameter of weight of 1000 grains 29.90 gram.*

**Key words :** *cucumber, pruning and gibberellins.*