Efektivitas Proporsi Bunga Jantan dan Kastrasi pada Bunga Betina dalam Peningkatan Produksi dan Mutu Benih Mentimun Jepang. (*The Effectiveness of Proportion of Male Flower and Castration on Female Flower to Increased Production and Quality of Japanese Cucumber Seeds*). *Advicer Common :* Ir Titien Suhermiatin, MP.

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ABSTRACT

The increasing demand of cucumber causes the need of seeds also increased, but it was not followed by the adequate of seeds production, so the seeds should be increased. One method to increase seeds production and quality is pollination technique. The purpose of this research is to know the effetiveness of proportion of male flower and castration on female flower to increased production and quality of Japanese cucumber seeds. This research was conducted from July to September 2019 in research field of PT. Benih Citra Asia, Rowosari, Jember. This research used Randomized Complete Block Design Factorial which has 2 factors. The fiirst factor is the proportion of male flower consists of 3 levels, 1 female flower and 1 male flower (P_1), 1 female flower and 2 male flowers (P_2), 1 female flower and 3 male flowers. Second factor is castration in female flower consist of 2 levels, female flower without castration (K_0) and famale flower with castration (K_1). The result showed that 3 male flower for 1 female flower (P_3) had significant effect on parameter of the number of 1202.00 pithy seeds and castration treatment had significant effect on parameter of the number of 1107.20 pithy seeds. The best combination is on 3 male flowers for 1 female flower with castration (P_3K_1)

Key Words : *castration of female flower*, c*ucumber, proportion of male flower*