

**KAJIAN PENAMBAHAN GIBERELIN SEBAGAI UPAYA
PEMBENTUKAN BUAH SALAK PONDOH (*Salacca zalacca Gaertner Voss.*)
TANPA BIJI**

*(Gibberellins Treatment Studies For Pondoh Snake Fruit (*Salacca zalacca Gaertner Voss.*)
Without Seeds Cultivation)*

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ABSTRACT

This research tried to cultivate Pondoh snake fruit without seeds using gibberellins and 2,4-D treatments. The research was conducted in snake fruit field Bangunkerto, Turi, Sleman, DIY started from August 2016 to March 2017.

This research was using a single factor experiment that arranged in a complete randomized blocked design (CRBD). It consisted 5 treatments i.e. spraying 2,4-D 100 ppm at each treatment and continued with spraying gibberellins (GA_3) with 5 concentration levels 0 ppm, 100 ppm, 200 ppm, 300 ppm, 400 ppm and one control with 3 blocks as replications. Each blocks contained 3 samples, so there were 54 treatment units in total. The data consisted percentage of successes fruit without seed, fruit development per cluster, seed development, and fruit development which were analyzed using analysis of variance (ANOVA) to determine the treatments effect. If there was a significant difference between the treatments then the analysis will be continued by using a further test of Duncan's Multiple Range Test at 5% error rate.

The results showed that the gibberellins and 2,4-D treatments failed to cultivate Pondoh snake fruit without seeds. However, the best treatment result was addition of 200 ppm gibberellins for the thickness of fruit flesh, fruit weight and fruit volume at 90-days harvest.

Keywords: Pondoh snake fruit without seeds, gibberellins (GA_3), 2,4-D