

**POTENTIAL OF FERMENTED FRUIT JUICE APPLICATION TO  
PROMOTE FLOWERING OF *Solanum melongena***

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## DECLARATION

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## **ABSTRACT**

### **EFFECTS OF FERMENTED FRUIT JUICE (FFJ) APPLICATION ON *Solanum melongena* TO PROMOTE FLOWERING**

The use of chemical fertilizer in Malaysia agriculture sector is quite worrying as it can cause harmfulness towards people and environment. Fermented Fruit Juice (FFJ) is organic fertilizer which has been used in natural farming practice. Thus, a study was carried out to evaluate the effects of Fermented Fruit Juice (FFJ) application on flowering and yield of *Solanum melongena*. There were three treatments in this study; T1 (30g of NPK green 15:15:15 and 40g of NPK blue 12:12:17), T2 (NPK green 15:15:15 & FFJ) and T3 (solely FFJ). The result shows that plant that treated with T2 is effective in inducing number of fruits. Besides, T2 resulted in significantly higher fruit fresh weight as compared to T3 (solely FFJ) with no significant difference with T1 (NPK fertilizer). Thus, FFJ can be applied as plant stimulant in inducing flowering and number of fruits for *Solanum melongena* to reduce chemical fertilizer amount by combining FFJ with NPK fertilizer.

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