

## ABSTRACT

### GROWTH AND RESULTS OF PAKCOY PLANTS IN VARIOUS PLANTING MEDIA WITH HYDRAULIC DFT SYSTEM (Deep Flow Technique)

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The growth & yield of pakcoy (*Brassica rapa* L.) was influenced by the variety and planting medium. This research was conducted to determine the effect of varieties & kinds of media on the growth and yield of pakcoy plants using DFT (Deep Flow Technique) hydroponics. The research was conducted in a plastic house, Condongcatur, Sleman, Yogyakarta. The research method used was a field experiment method arranged in a completely randomized block design (RAKL) with two factors, namely the first factor was the Pakcoy variety which consisted of two levels, namely the green variety, White Light. The second factor is the planting medium which consists of three levels, namely Rockwool, Cocopeat, and Sponge. Research parameters include plant height, leaf area, root volume, dry weight, fresh weight, economic weight. Observation data were analyzed for diversity using variance (Anova) at the 5% level and continued with testing with Duncan's Multiple Range Test (UJBD) at the 5% level. The results showed the growth of white light varieties based on the parameters of plant height, leaf area, root volume, dry weight, fresh weight, and economic weight showed better growth than the green pakcoy variety.

**Keywords:** Pakcoy, Planting Media, DFT Hydroponics