

**GROWTH OF BOUGENVILLE VARIETY (Hawai Orange) STEM
CUTTINGS ON VARIOUS CONCENTRATIONS OF SHALLOT EXTRACT
AND PLANTING MEDIA COMPOSITION**

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ABSTRACT

The success of plant propagation using cuttings is characterized by the formation of shoots and roots induced by the use of ZPT and the influence of planting media. This research aims to (1) examine the interaction between soaking shallot extract treatment and the composition of the planting media on the growth of bougainvillea stems, (2) determine the appropriate concentration of shallot extract for the growth of bougainvillea stems, (3) determine the appropriate composition of the planting media for the growth of bougainvillea stems. The research was conducted at the UPN "Veteran" Yogyakarta Experimental Garden, Wedomartani, Ngemplak, Sleman Regency, Special Region of Yogyakarta. The environmental design used was a factorial Completely Randomized Design (CRD) with 2 factors studied. The data obtained was processed using Analysis of Variance (ANOVA) then continued with the Duncan Multiple Range Test (DMRT) with a real level of 5%. The experimental results showed that there was an interaction between the treatment of giving 30% shallot extract (A3) and the composition of the soil planting medium: goat manure fertilizer: husk charcoal 1:1:2 (B3) on root length with the best result being 14.70. The treatment of shallot extract and the composition of the planting medium showed no significant effect on the percentage of cuttings that sprouted, the time of emergence of shoots, the number of shoots, the length of shoots, the number of leaves, the number of roots, and the volume of roots.

Keywords: Bougainville, Cuttings, Shallot Extract, Goat Manure Fertilizer, Husk Charcoal.