

**GROWTH RESPONSE OF PAGODA MUSTARD (*Brassica narinosa* L.)
ON VARIOUS TYPES OF PLANTING MEDIA AND DIFFERENT AGE
OF SEEDLINGS WITH NUTRIENT FILM TECHNIQUE SYSTEM**

**By: Adiola Zerlinda
Supervised by: Rina Srilestari**

ABSTRACT

Pagoda mustard is one of the horticultural commodity product with high nutritional content. One way to improve the quality and quantity of pagoda mustard in limited space is to use Nutrient Film Technique System. This study aims to examine whether there is an correlation between various types of planting media and seedling age on the growth and yield of pagoda mustard, to determine the best planting medium and seedling age for the growth of pagoda mustard. The research method is a field experiment arranged using a Split Plot Design. The main plot is the planting media (rockwool, cocopeat, and rice husk charcoal) and the subplot is the age of the seedlings (7 DAS, 12 DAS, 17 DAS). The parameters observed is the percentage of surviving plants, height of the plants, number of the leaves, level of the leaves, diameter of the crown, volume of the root, wet weight, fresh root, dry root, dry crown, and crown-root ration. The research data is analyzed using Analysis of Variance (ANOVA) and further tested with 5% DMRT. The results showed that there was an interaction between the treatment of the growing media and seedling age. The treatment of rockwool growing media and seedling age 17 DAS gave the best results on the parameters of height of the plant aged 2 WAP, wet weight, and dry weight. Rockwool growing media gave the best results on the parameters of height of the plants aged 3 WAP, number of leaves at 1 WAP, 2 WAP, 3 WAP, 4 WAP, and 5 WAP, level of the leaves, fresh root, and dry root. Seedling age 17 DAS gave the best results on the parameters of number of leaves at 1 WAP and 4 WAP, and crown-root ration.

Keywords : Pagoda mustard, growing media, seedling age.