

Aplikasi PGPR (*Plant Growth Promoting Rhizobacteria*) terhadap Pertumbuhan dan Produksi Benih Tiga Varietas Bawang Merah (*Allium cepa* L.). *Application of PGPR (Plant Growth Promoting Rhizobacteria) on Growth and Seed Production of Three Varieties of Red Onion (*Allium cepa* L.).* Supervised by Dr. Ir. Rahmat Ali Syaban, M.Si

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ABSTRACT

*Shallot (*Allium cepa* L.) is a horticultural crop that has many benefits and high economic value. Things that can be done to increase shallot seed production are the use of superior varieties and the provision of PGPR so that nutrient absorption can run optimally. This study aims to determine the response of three shallot varieties to the application of PGPR (*Plant Growth Promoting Rhizobacteria*). This research was conducted from October to December 2019 at UPT PSBTPB East Java Region III Kediri. The experimental design used was Factorial Randomized Group Design (RGD) which was repeated 4 times. The first factor is shallot varieties consisting of Bauji Variety (V1), Tajuk Variety (V2), Trisula Variety (V3). The second factor is PGPR concentration consisting of 20 ml/L (P1), and 30 ml/L (P2). The research data were analyzed using Anova and continued with the DMRT test at the 5% level if it showed a significant effect. The results showed that bauji varieties gave a very significantly different effect on plant height of 37.97 cm.*

Key Word : *Shallot, PGPR, Variety*