The Effect Concetration Aplication of Coffee Root PGPR (Plant growth promoting rizhobacteria) On The Growth of Robusta Coffee Seds
(*Coffea canephora* Pierre ex A Froehner)

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ABSTRACT

Plant growth promoting rizhobacteria (PGPR) is a group of good bacteria around plants root. The aim of this research was to determine the effect of giving PGPR using several types of concentrations, on the growth of Robusta Coffee Seedlings. The research was conducted at state Polytechnic of Jember's Practicum Land using non factorial randomized block design method with 4 different treatments and 6 replications. The treatments that be used were K0 = 0 Ml/l, K1 = 50 ml/l, K2 = 100 Ml/l, K3 = 150 Ml/l. Parameter of observations include plant height, stem diameter, amount of leaf, root lenght, root volume, Rot wet weight and root dry weight. Observation was applied on plants aged 2,4,8,12 and 16 weeks after planting. The data from observation then was analyzed using ANOVA test and continued with LSD test at the 5% level. The result showed that the treatment of K1 = 50 Ml/l had a significant effect on the growth of plant height and the amount of Robusta Coffee plant's leaves.

Keywords: *PGPR, Concetration, Robusta Coffee Seds.*