

Pengaruh Konsentrasi dan Lama Perendaman Jamur *Trichoderma sp.* Terhadap Persemaian Benih Kopi Arabica (*Coffea arabica* L.). Effect concentration and submersion time of *Trichoderma* spp. in Arabica Coffee Seed Nursery (*Coffea arabica* L.) Gayo 1. *Supervised by:* Maria 'Azizah, SP, M.Si

Rizqi Amalia Pratiwi

*Study Program of Seed Production Technique
Department of Agricultural Production
Program Studi Teknik Produksi Benih
Jurusan Produksi Pertanian*

ABSTRACT

*The low productivity of coffee in Indonesia is due to the fact that most of the coffee plants are old, come from local varieties that are not well developed, or some come from seeds without prior selection. One of the success factors in germinating coffee seeds is using *Trichoderma sp.* This research was conducted on October 2019 to January 2020 in Plant Protection Laboratory and greenhouse of Indonesian coffee and cocoa research center. This research is uses Completely Randomized Design Factorial which has 2 factors. First factor was consists 4 levels, 5 gr/liter (T1), 10 gr/liter (T2), 20 gr/liter (T3), and 40 gr/liter (T4). Second factor consists 4 levels, submersion time 6 hours (L1), submersion time 12 hours (L2), submersion time 24 hours (L3), and submersion time 48 hours (L4). The result showed that the consist of *Trichoderma sp.* gives very significant effect on parameter vigor index, while the submersion time also gives very significant effect on parameter seedling growth rate. The highest result is on combination consist of *Trichoderma sp.* 40 gr/liter and submersion time 48 hours (T4L4).*

*Keyword : Arabica coffee, *Trichoderma sp.*, consists, submersion time*