

**Aplikasi Organik Priming Air Kelapa Dan Lama Perendaman Terhadap Mutu Fisiologi Benih Terung (*Solanum melongena* L.) Kadaluarsa.**  
*Application of Organic Priming Coconut Water and Duration of Soaking on the Quality of Physiology of Eggplant Seeds (*Solanum melongena* L.) Expired*  
**Advisor: Dr. Ir. Nurul Sjamsijah, MP.**

**Arif Azhari**  
*Seed Production Techniques of Study Program*  
*Department of Agriculture Production*

**ABSTRACT**

Priming using coconut water with a certain duration of soaking is one of the seed treatments before planting which aims to improve quality of physiology of eggplant's (*Solanum melongena* L) seeds which have experienced seed decline.. The purpose of this research was to knowing the effect of coconut water concentration and duration of soaking on increasing quality of physiology of eggplant seeds expired. This research was conducted in August-September 2018 at the Green House Seed Production Laboratories State Polytechnic of Jember, Jember Regency, East Java. This research use Factorial Completely Randomized Design with 2 factors and 3 replications. The first factor is coconut water concentration which consists of 3 levels, namely  $K1 = 30\%$ ,  $K2 = 60\%$  and  $K3 = 90\%$ . The second factor is incubation period which consists of 3 levels, namely  $L1 = 24$  hours,  $L2 = 48$  hours and  $L3 = 72$  hours. Results from research shows that the coconut water concentration and duration of soaking interaction is given significant efect for plant height and root length. The highest germination was  $K2L2 = 71.83\%$ , the highest growth speed was  $K2L3 = 17.04\% / etmal$ , the highest growth simultaneity was  $K2L2 = 62.1\%$ , the highest plant height was  $K2L2 = 4.06$  cm, the highest root length was  $K2L1 = 7.89$  cm, the highest stem diameter was  $K2L2 = 0.127$  cm, and the highest number of leaves was  $K2L2 = 3.8$ .

**Key words :** Priming, is Coconut Water Concentration, is Duration of Soaking, quality of physiology.