

**Efektivitas Waktu Polinasi dan Umur Penyimpanan Polen Terhadap Pembentukan dan Mutu Benih Cabai Keriting HP 1160 (*Capsicum annuum* L.) Hibrida.** *The Effectiveness of Time Pollination and Time Storage Exposure of Pollen on Quality of HP 1160 Large Hybrid Chili Seed (*Capsicum annuum* L.).* Supervised Dr. Ir. Suharjono, MP and Eko Budi Santoso, S.P.

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**ABSTRACT**

*The differences in flowering time between male and female elders and inaccurate pollination time in the receptive female elders cause the failure of fruit and seed formation processes carried out in artificial pollination on large chili HP1160 (*Capsicum annuum* L.) Hybrids. This research aimed to find out in improving the yield and quality of large hybrid chili seeds with time extension to pollination and age exposure of pollen storage. This research was conducted in September – November 2018 at the production site of PT BISI Internasional, Dusun Torong, Desa Ngabab, Kecamatan Pujon, Kota Batu, Provinsi Jawa Timur. The experimental design was Randomized Block Design Factorial (RCBD) using 2 factors and 3 repetition. First factor was the pollination (*W*) which consists of the pollination time in the morning 07`00-09`00 (*W1*), the pollination time during the day 09`00-11`00 (*W2*) and pollination in the afternoon 13`00-15` 00 (*W3*). Second factor was the age of pollen storage which consists of fresh flowers (*U1*), pollen stored 7 days (*U2*) and pollen stored 14 days (*U3*). The results showed that the treatment of time pollination in the morning had a significant (\*\*) on the formation of fruit settings 8.0 (fruit) , significant (\*) on the seed setting is 61.12 (item) and treatment of age pollen storage with fresh flowers (*P1*) significantly (\*) on seed setting is 61.24 and. The interaction of pollination time factors and pollen age factors significantly influence the parameters of seed germination*

*and seed growth rate with the highest yields of 96% and 28.29 %/etmal respectively.*

***Key words:*** *Time of Pollination, Age of Pollen Storage, Big Chili (Capsicum annuum L.)*