

***Application of Addition of Vermicompost Organik Fertilizer and Amino Acids to the Production and Quality of Cucumber Seeds (Cucumis sativus L.)***

*Supervisor : Ir. Dwi Rahmawati, S.P., M.P., IPM*

**Sandy Irawan Jodi**

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

***ABSTRACT***

*Research on the Application of Adding Vermicomposi Organik Fertilizer and Amino Acids to the Production and Quality of Cucumber Seeds (Cucumis sativus L.) was carried out in Wringintelu Village, Puger District, Jember Regency, East Java Province in July 2024 at an altitude of 1 meters above sea level, average soil pH per week rangers from 6.3, minimum temperature 25° celcius and maximum 29° celcius, average rainfall per year 2268 mm<sup>3</sup> and the average humadity every month rangers from 80%-85%. Followed be further research which took place at the Jember State Polytechnic Seed Production Techniques Laboratory. The research used a factorial randomized block design with two factor with each factor using three levels and repeated 3 times. The data obtained was the analyzed using Analysis of Variance and if there was a real effect, it was continued eith the Duncan Muultiple Range Test (DMRT) which showed that the treatment with the addition of vermicompost showed a very real effect on thr height of plant aged 30 days after planting (144.91) and had a significant effect on plants height at 15 days after planting (18.67), harvest age (33.18), number of fruit per plant (2.49), fruit weight per plant (1.63) and seed production per hectare (463.62). amino acid treatment showed a very significant effect on plant height at 30 days after planting (137.71) and significant effect on flowering age (25.40) and number of pithy seeds per plant (272.16). the interaction between the addition of vermicompost fertilizer and amino acids showed a significant effect on plant height at 30 days after planting (149.20), flowering age (22.40) ans weight of pithy seeds per plant (11.62).*

***Keywords:*** *Cucumber, Fertilizer, Vermicompost, Amino Acid, Seed Production*