

**Optimasi Pertumbuhan Krisan (*Chrysanthemum* sp.) pada Beberapa Konsentrasi Media Murashige-Skoog dengan Penambahan Ekstrak Jagung dan Air Kelapa (*Optimization of the Growth of Chrysanthemum (*Chrysanthemum* sp.) at Several Concentrations of Murashige-Skoog Media with the Addition of Corn Extract and Coconut Water*)** Supervisor: Netty Ermawati, SP, Ph.D.

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### ***ABSTRACT***

*Chrysanthemum is a cut flower and ornamental plant that has high aesthetic and economic value, but its production in Indonesia has decreased in the last 5 years. Efforts to optimize the growth of chrysanthemum are through in vitro culture with the preparation of the right media composition. The research was conducted in the Jember State Polytechnic tissue culture laboratory from July to November 2022 using the RAL method. The first factor (murashige skoog concentration) consists of 3 levels: 100%, 50%, 25%, and the second factor is the extra composition of corn and coconut water which consists of 3 levels, namely: without the addition of corn extract and 10% coconut water, 5% corn extract + 10% coconut water, and 10% corn extract + 10% coconut water. The results showed that murashige skoog media concentration had a significant effect on the number of leaves parameter, but not significantly different on the number of shoots, root length, and live percentage. The treatment with the addition of corn extract and coconut water showed a very significant effect on almost all observed parameters except for the number of shoots parameters. The interaction of the treatment of several concentrations of Murashige Skoog media with the addition of corn extract and coconut water gave no significant differences in all parameter observations.*

**Keywords:** *chrysanthemum, growth, murashige skoog, corn extract, coconut water*