Induksi Kalus Tanaman Aglaonema Snow White Dengan Kombinasi Zat Pengatur Tumbuh 2,4-D dan 2-iP. *Callus Induction of Aglaonema Snow White Plants Using a Combination of Growth Regulators 2,4-D and 2-iP*. *Supervised by* Dr. Ir. Nurul Sjamsijah. MP.

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ABSTRACT

Aglaonema is a tropical ornamental plant that is a favorite in Indonesia with the scientific name Aglaonema sp. Aglaonema plant propagation is generally quite time consuming and can damage the parent tree if the separation of saplings and parents is done. In vitro propagation of aglaonema plants to determine the effect of the addition of growth regulators auxin 2,4-D and cytokinin 2-iP on MS media on callus induction of Aglaonema Snow White plants. The research was conducted at the Jember State Polytechnic Tissue Culture Laboratory in August-December 2023. The research design used was a factorial completely randomized design with 2 factors. The first factor was the treatment of 2,4-D (Diclorophenoxyacetic acid) concentration, namely 6 ppm, and 8 ppm. The second factor is the treatment of 2-iP (Isopentenyl Adenine) concentrations of 4 ppm, 6 ppm, 8 ppm, and 10 ppm to induce snow white aglaonema callus. The data obtained from this research were analyzed using analysis of variance. The results showed that the days of callus appearance, explant development, percentage of live explants and explant color gave results that were not significantly different.

Kata Kunci : *Aglaonema snow white, leaf explant, growth regulator*