



**THE EFFECT OF *Hopeafoxworthyi* (DALINGDINGAN) LEAF CRUDE
EXTRACT ON THE MITOTIC ACTIVITY
OF *Allium cepa*(ONION)**

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ABSTRACT

This research evaluates the effects of *Hopea foxworthyi* leaf crude extract as an antimitotic substance using the mitotic index and root length of *Allium cepa* roots. The dried leaves were extracted using 95% ethanol in rotary evaporator. Ten fold dilution factor of crude extract was done to obtain the four different concentrations (0.25g/ml, 0.1875g/ml, 0.125g/ml, and 0.0625g/ml). Sodium dodecyl sulfate as positive control and distilled water as negative control. Squash method was employed to describe the mitotic index. Concentration of 0.25g/ml leaf crude extract was found to be as effective in preventing cell division of the meristematic cells. The antimitotic activity of the extract was due to its potential property such as stilbenoids, particularly, malibatol A. These findings suggest that the promising anti-mitotic properties of the plant could be used in potential anti-cancer and anti-oxidant drug.





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