

**EFFECT OF DIFFERENT LEVELS OF BENZYLAMINOPURINE COMBINED WITH  
NAPHTHALENE ACETIC ACID IN THE MICROPROPAGATION OF  
CASSAVA (*Manihot esculenta* C.)**

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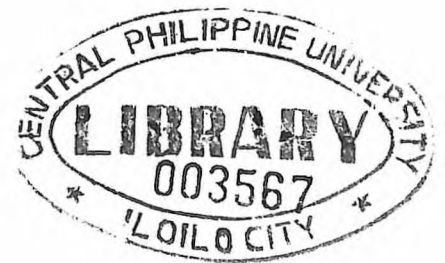
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**BACHELOR OF SCIENCE IN AGRICULTURE**

By

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**ABSTRACT**

The study was conducted at the tissue culture laboratory, WESVIARC, Hamungaya, Buntatala, Jaro, Iloilo City from January 4 to March 20, 2019. The study aimed to determine the effect of different levels of benzylaminopurine (BAP) combined with naphthalene acetic acid (NAA) in the micropropagation of cassava (*Manihot esculenta* C.). This study was composed of six experimental treatments which were laid-out in a completely randomized design replicated four times. The explants used were taken from shoot tips of Lakan 1 cassava variety. These were subjected to several disinfection and sterilization processes before it was inoculated to medium containing experimental treatments. Results revealed that the number of days from culture inoculation to callus formation ranged from 19.33 days to 30.42 days but differences among treatment means were found to be not significant ( $P > 0.05$ ). Moreover, Murashige and Skoog (MS) medium with 0.01 mg/L of NAA alone resulted in a significant formation of shoot at 12.75 days after inoculation ( $P < 0.01$ ). In addition, in terms of number of shoots developed and their heights, MS medium with 0 mg/L BAP + 1 mg/L NAA had significantly ( $P < 0.01$ ) more and taller shoots over the rest of the treatments which were added with benzylaminopurine and naphthalene acetic acid. Based on the results of the study, it can be concluded that naphthalene acetic acid alone is sufficient to induce shoot development even without the addition of benzylaminopurine.

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