

**A Preliminary Study on the Callus formation of  
*Strongylodon macrobotrys* (Jade Vine) Through Tissue Culture**

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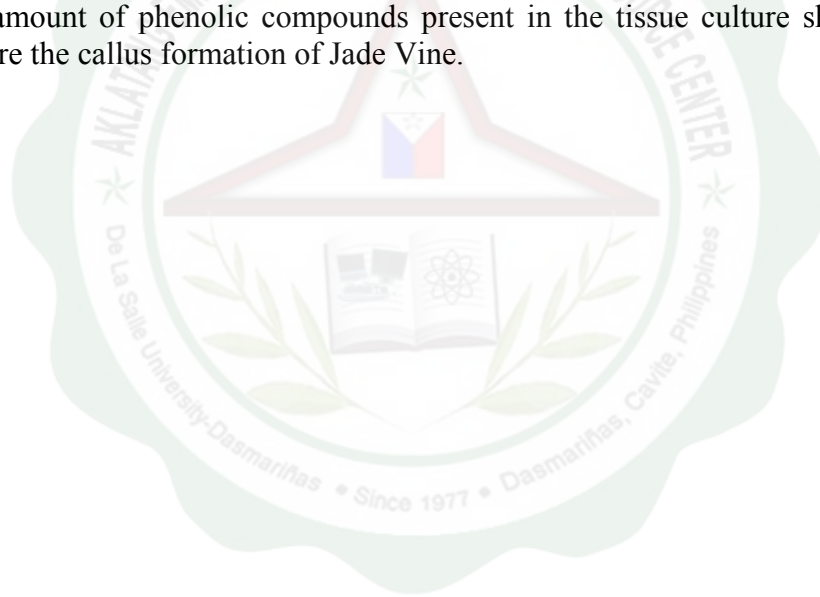
Sierra, Rei Fabbie F.  
Victoria, Sharlene Mae D.

Ms. Janette C. Papa  
Adviser

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## ABSTRACT

The preliminary study on the callus formation of *Strongylodon macrobotrys* (Jade Vine) through tissue culture aims to induce callus on the Adopted Murashige and Skoog medium and compare the effects of amounts of  $\alpha$ -Naphthalene Acetic Acid with Hormex, a commercial plant hormone. The researchers managed to inoculate the internodes of Jade Vine in the adopted media used in tissue culture. On the first trial, the internodes used as explants on the media bottles showed no response to the adopted media in the 1<sup>st</sup> week of inoculation and on the following week, the discoloration or darkening of the internodes happened, suggesting the presence of cellular decomposition on the explants. Based on the above results, the researchers added more hormones on the second trial. This time, the internodes showed no response for two weeks after inoculation and started to darkened on the third week which is the expected callus induction time. The results suggested that exploring other suitable media, increasing the volume of the applied hormones and determining the amount of phenolic compounds present in the tissue culture should be done to ensure the callus formation of Jade Vine.



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