

**EFFECT OF ABSCISIC ACID(ABA) ON THE PRODUCTION OF
SOME SECONDARY METABOLITES FROM CALLUS OF
CATHARANTHUS ROSEUS L.G.DON *IN VITRO***

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Abstract

A study on the effect of ABA callus induction of *Catharanthus roseus* to produce of Some Secondary metabolites from callus was achieved by culturing coleoptiles of the plant on Murashing and Skoog (MS) medium supplemented with 0.5 mg.l⁻¹ and 2.0 mg.l⁻¹ NAA which is the best medium to maintain callus. Different levels of ABA(ABA ,0.0,2.0,4.0mg.l⁻¹) were added to this medium. The results showed that the control Treatment gave the highest quantity of Vindoline , Catharanthine, Vincristine and Vinblastine which reached 45.90, 28.89 , 107.26 and 139.89 ug.ml⁻¹ fresh weight of callus, Respectively .According to these results, The addition of ABA did not affect in the increase of the studied Secondary metabolites production.

Key Word :*Catharanthus roseus* ,in vitro, Secondary metabolites ,ABA

* part of M.SC. thesis for the first author.