



**EFFECT OF DIFFERENT LEAF CONCENTRATIONS  
OF *Rosmarinus officinalis* L. (ROSEMARY) IN  
THE BLOOD CHOLESTEROL LEVEL OF  
*Albino Rattus norvegicus* (ALBINO RATS)**

An Undergraduate Research Presented to the  
Faculty of Biological Sciences Department  
College of Science and Computer Studies  
De La Salle University - Dasmariñas  
Dasmariñas, Cavite

In Partial Fulfillment of the Requirements  
for the Degree Bachelor of Science Major in Human Biology

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March 2013



### ABSTRACT

The crude extract of *Rosmarinus officinalis L.* (Rosemary) was tested on its effect on the cholesterol activity of albino rats. Hypercholesterolemia was induced to the albino rats by high-fat diet using buttered pellets. Normal baseline blood was collected prior to the administration of 50%, 75% and 100% extract of rosemary leaves. The study showed that the various concentration of extracted rosemary has a significant effect in lowering the blood cholesterol level of the albino rats. Best concentrations were also determined before treatment. The concentrations 75% and 100% were given to treatments as once daily and twice daily. Weekly monitoring of blood cholesterol was done for ten weeks. Using paired t-test and One-way ANOVA, it was found out that there is a difference in the effect in lowering hypercholesterolemia ( $p < 0.05$ ). Inducing the albino rats with the two concentrations namely:  $T_4=75\%$  and  $T_5=100\%$  given dosing frequency of once daily and twice a day has no significant difference in lowering the blood cholesterol level. Results suggest that the extract have a potential property in controlling the lipid diet of an individual.



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