



**HEPATOPROTECTIVE POTENTIAL OF *Neolamarckia cadamba* Roxb.
(BOSSER) ETHANOLIC LEAF EXTRACT AGAINST IBUPROFEN-
INDUCED LIVER DAMAGE ON *Rattus norvegicus*
(ALBINO RATS)**

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

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

ALYSSA J. DELAS ALAS
ELLANE E. BARCELON

March 2015



ABSTRACT

The hepatoprotective potential of *Neolamarckia cadamba* ethanolic leaf extract alone and its combination with Silymarin against Ibuprofen-induced liver damage on *Rattus norvegicus* (albino rats) was evaluated using alanine aminotransferase (ALT) serum level and histopathological assessment. After 10 day oral administration of 100 mg/kg Ibuprofen to all groups, ALT levels increased. The following are the treatments: T1 received 100mg/kg Silymarin. T2 received 100mg/kg *N. cadamba* and T3 received the combined dose of the two. Results indicated that *N. cadamba* extract and its combination with Silymarin has no significant difference ($p>0.05$) on the ALT serum level and size of hepatocytes using One-Way ANOVA. Histopathological assessment of the damaged liver indicated that *N. cadamba* is better than Silymarin showing less granulomatous sites, intact parenchyma and normal size of sinusoid. However, the combination of *N. cadamba* and Silymarin showed no hepatoprotective potential as observed in the hepatic tissue. It was concluded that 100mg/kg *N. cadamba* and its combination with 100 mg/kg Silymarin has no hepatoprotective potential against ibuprofen-induced liver damage on albino rats.



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