



**EFFECTS OF DIFFERENT CONCENTRATIONS of *Dolabella auricularia*  
(SEA HARE) TOXIN ON THE MOTOR AND SENSORY  
FUNCTIONS OF *Rattus norvegicus* –  
SPRAGUE DAWLEY STRAIN  
(ALBINO RATS)**



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**ELLEIN STEPHANIE C. ALMEDA**

**NATHAN V. GUZMAN**

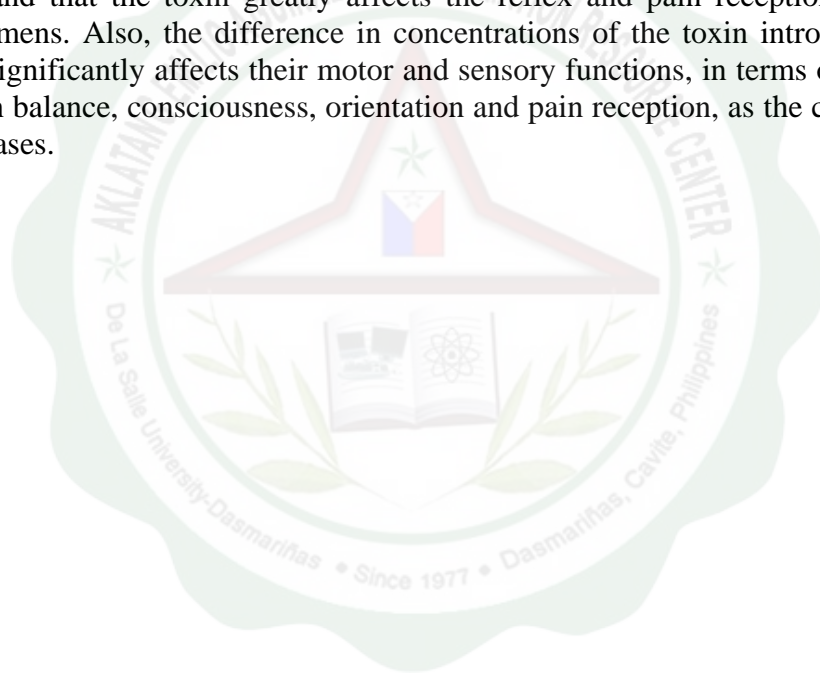
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### ABSTRACT

*Dolabella auricularia*, more commonly known as sea hare, is one of the nudibranch species that can be found in the shores of Calatagan, Batangas. Not much studies are carried out and published regarding this species in the country, which makes the great number of Filipinos unaware of the potential danger that sea hares may bring since they produce neurotoxins as part of their defense mechanisms. This study aims to identify the effects of the *Dolabella* toxin to the sensory and motor functions of the Sprague Dawley rat (*Rattus norvegicus*). Moreover, this study also aims to detect whether there is a significant effect on the different concentrations of the toxin administered to the rats.

Results showed that 100% concentration/1mL of the toxin is lethal to the rats and that the toxin greatly affects the reflex and pain reception of the test specimens. Also, the difference in concentrations of the toxin introduced to the rats significantly affects their motor and sensory functions, in terms of reflex, but not in balance, consciousness, orientation and pain reception, as the concentration increases.





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