

TOXICITY OF *Acanthaster planci* (CROWN- OF-THORNS STARFISH)
ON *Mus Musculus* (ALBINO MICE)

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ABSTRACT

The study was conducted to determine the Toxicity of *Acanthaster Planci* (Crown of Thorns Starfish) on *Mus Musculus* (Albino Mice). The Starfish, Crown of Thorns, was gathered at Calatagan, Batangas on the month of April 2007. Sixty (60) albino mice (*Mus Musculus*) were used as test organisms. In extracting the toxin from the starfish Crown of Thorns the researchers cut and trimmed the spines of Crown of Thorns starfish, 500g of which was, placed in a blender to be homogenized thorns, added with 100ml distilled water. The homogenized was placed in a centrifuge set of 4000rpm for 10 minutes. And decanted and placed in the bottle. Dilution was prepared using a different volumetric flask and finally distilled water was added. After the extraction, 1ml sample extract was injected on each of the 60 three-month old albino mice on its intraperitoneal part. The albino mice (*Mus Musculus*) were observed every 2, 4 and 6 minutes after the application of treatments. The physical /behavior of the mice were changed showing signs of nausea, drowsiness and difficulty in breathing. Eventually after application, the albino mice died. At the end of this experimentation the significant difference on the sub-lethal and lethal doses of crown of thorns were identified using Regression Analysis.

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