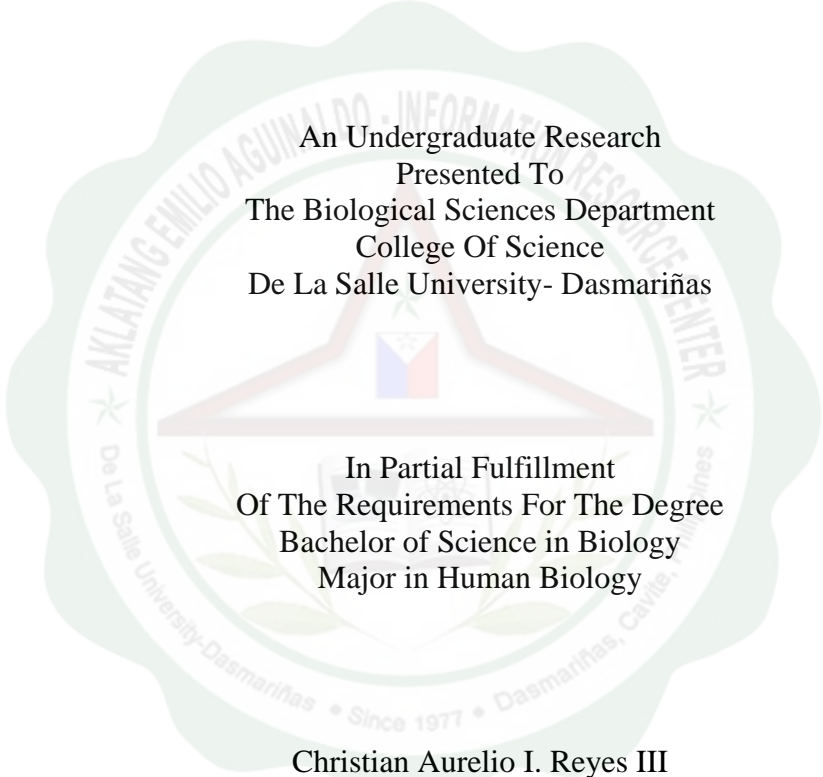


EFFECTS OF CHLORPYRIFOS TO THE FEMALE *Gambusia affinis*  
(MOSQUITO FISH) AND ITS JUVENILES



An Undergraduate Research  
Presented To  
The Biological Sciences Department  
College Of Science  
De La Salle University- Dasmariñas

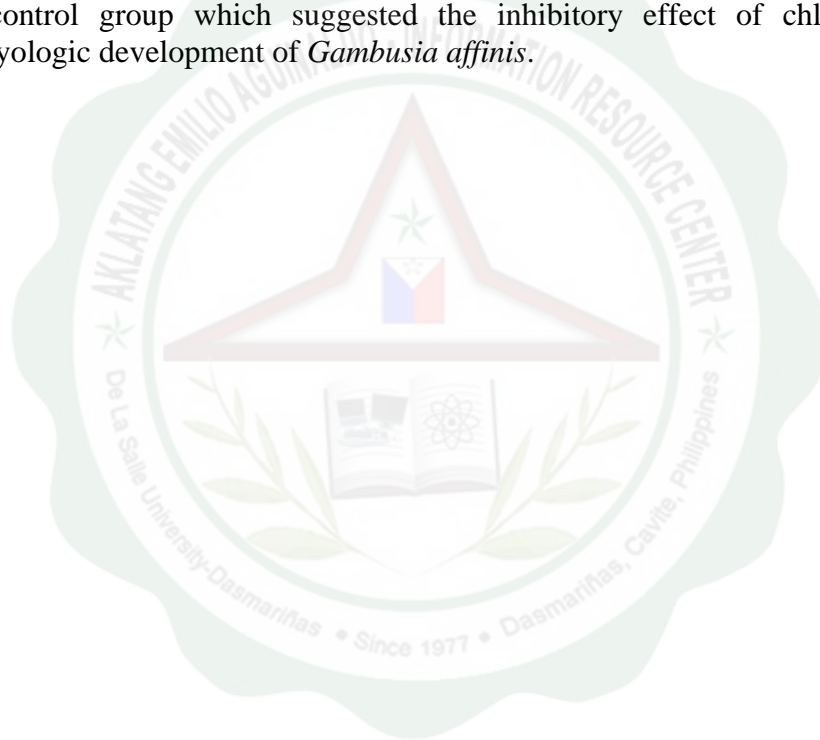
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## ABSTRACT

This study describes the effects of chlorpyrifos on *Gambusia affinis*. Locomotory behavior, survival rate of test pregnant females, and resulting juveniles were noted in the study. Microscopic examination was also done to evaluate the changes in the morphological structure of the fishes particularly the total body length in juveniles. A change in pigmentation of the test females from a dull grey to olive green to a darker pigment of the scales was noted after exposure to the toxicant. Sluggishness and uncoordinated swimming behaviors as well as the reproductivity rate were noted significantly from the 0.1, and 0.05mg/L treated test pregnant females. The resulting juveniles from the treated group showed shorter average length compared to the control group which suggested the inhibitory effect of chlorpyrifos to the embryologic development of *Gambusia affinis*.



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