



**MUTAGENIC EFFECTS OF ALUMINUM ON**  
***Drosophila melanogaster* (FRUIT FLY)**

A Research Presented to

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### ABSTRACT

This study was conducted to determine the mutagenic effect of aluminum on *Drosophila melanogaster* from parental generations up to the third filial generations. Genetic mutations were evaluated on the phenotypic expression of compound eye color, abdominal color pattern and vestigial wing. Three treatments were considered in this study such as distilled water, aluminum solution, and aluminum with lemon extract. Results showed that constant exposure to aluminum manifested no significant mutagenic effect on the eye color, abdominal color pattern and vestigial wing type up to the third filial generation. This is indicative that the effect of aluminum and aluminum with lemon extract is not permanent and will not be transmitted to the next generation. Furthermore, in consideration of the total number of progenies indicating that untreated>aluminum>aluminum with lemon extract does not show significant difference ( $p < 0.05$ ).



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