



**EFFECTS OF *Delonix regia* (CABALLERO) SEEDS AS FEED ADDITIVE  
ON THE LIVER OF MALE *Gallus gallus domesticus*  
(BROILER CHICKENS)**



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### ABSTRACT

This study proved that *Delonix regia* seeds are safe to be used as feed additive on male Broiler chickens for the effects *D.regia* seeds when added to the feeds and subsequent effects on the liver of male Broiler Chickens (*Gallus gallus domesticus*) was further investigated in this study. Forty five broiler chicks were divided into three groups; the control group received no *Delonix regia* seeds, and the other groups were treated with crushed *Delonix regia* seeds with 25% and 50% composition, respectively. After 45 days, the chicken's liver was extracted subjected to histotechniques. The result after the analysis indicates that the control group, 25% *Delonix regia* seeds and 50% *Delonix regia* seeds showed no alteration from their morphological state. The difference of the liver tissues between chicken fed with regular feeds and chicken fed with additive showed that there was a significant increase in the cell number between the control group and the treatment group with 50% *Delonix regia* seeds, and treatment group with treatment group with 25% *Delonix regia* seeds and treatment group with 50% *Delonix regia* seeds. The results showed that the liver cell size had a significant difference between the control group and the treatment group with 25% *Delonix regia* seeds that showed an increase in cell size at the treatment group with 25% *Delonix regia* seeds.

Key words: *Delonix regia*, Histopathological techniques, morphological state.



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