



**EFFECT OF *Diospyros blancoi* A. DC (MABOLO) CRUDE LEAF
EXTRACTS ON THE BLOOD CHOLESTEROL LEVEL
OF HIGH-FAT-DIET-INDUCED ALBINO RATS**

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**GLORIANE C. FLESTADO
ROSE ANN I. GAMEZ**

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ABSTRACT

Diospyros blancoi A. DC (Mabolo) a member of the family Ebenaceae, is more admired for its ornamental than its edible value. The ethanolic extracts of *D. blancoi* leaves were investigated for possible anti-hypercholesterolemic activity against high fat diet induced albino rats. *D. blancoi* crude leaf extract was orally administered to albino rats through oral gavage with three different concentrations formulated at T₁ (50%), T₂ (75%) and T₃ (100%) for four weeks. Hypercholesterolemia in albino rats was achieved through induction of high fat dietary feeds for two weeks. It was significantly decreased by the oral administration of *D. blancoi* crude leaf extracts. However, *D. blancoi* crude leaf extracts showed a hypocholesterolemic effect on albino rats. These results strongly suggest that the presence of anti-hypercholesterolemic agents in the leaf ethanolic extract of *D. blancoi* was due to its phytochemical constituents such as flavonoids and tannins.

Keywords: Hypercholesterolemia, leaf crude extracts, flavonoids, tannins



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