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Effect of saponin from *Solanum anguivi* on heart function of alloxan-induced diabetic rats

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Solanum anguivi is a semi-domestic indigenous vegetable very valuable in many African countries with potential to become a cultivated market vegetable in Nigeria. Uptake of *Solanum anguivi* cause hypoglycemic effect, hypertension etc. The effect of Saponin from *Solanum anguivi* on heart function of the alloxan-induced diabetic rat was investigated in this study. Twenty four (24) rats of average weight 120g were randomly divided into six (6) groups A-F. Group A (control) rats were given 2.0ml of distilled water, Group B (Diabetic control), Group C to F were diabetic rats which were administered 20mg/kg, 40mg/kg and 80mg/kg Saponin from *Solanum anguivi* respectively for 14 days. The results showed that there was a significant reduction in plasma glucose in the diabetic rat to almost the level in the control. The result also shows that there were a significant reduction in Aspartate Aminotransferase (AST) and Alanine aminotransferase (ALT) activities in serum and heart compared with the control ($p < 0.05$). This study shows that *Solanum anguivi* fruit has an anti-diabetic effect on alloxan induced diabetic rat.

Biography

Oladepo Mutiu Lolade is currently studying for his Master's degree at Department of Biochemistry, Adekunle Ajasin University, where he bagged his Bachelor's degree. He is a fully baked, technically inclined, scientifically unbiased and self-motivated researcher with a good laboratory proficiency. He is presently a Scientific Officer at General Hospital Akure Ondo State, Nigeria. He is a competent and enthusiastic researcher with interest in Nutrition and Cardiovascular Diseases. His keen interest understanding the contribution of African diet and nutrition to cardiovascular health has driven him into various research that make use of experimental animal models to investigate the effects of commonly consumed Nigerian foods on markers of cardiovascular health.

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