

ANTIHYPERLIPIDEMIC EFFECT OF *ASPARAGUS GONOCLADOS* BAKER AGAINST CHOLESTEROL DIET INDUCED HYPERLIPIDEMIA IN RATS.NALLAM JAHNAVI¹, PRASAD. P. NAIDU^{2*}, KOTESWARA RAO. A², KARUNASREE. C. P¹¹Department of pharmacology, Krishna Teja College of Pharmacy, Tirupati-517501, Andhra Pradesh, India. ²Department of Biotechnology & Bioinformatics, Yogi Vemana University, Kadapa-516003 Andhra Pradesh, India. Email: prasad_bio@yahoo.inRef:<https://innovareacademics.in/journals/index.php/ajpcr/article/view/920/764>**ABSTRACT****Objective:** To evaluate the antihyperlipidemic potential of the Ethanolic Extract of Root tubers of *Asparagus gonocladus* (EERAG) in cholesterol diet induced hyperlipidemic rats.**Methods:** Wistar albino rats were randomly divided into five groups of six each. Group-I served as normal control. Groups II to V were given 5% cholesterol diet for 3 months to induce hyperlipidemia, and for last 28 days were administered either: 0.5ml water/saline for Group- I; cholesterol diet (5%) for Group-II; Standard drug Rosuvastatin (20mg/kg body weight) for Group-III; *A.gonocladus* extract at 250 mg/kg bodyweight for Group-IV and 500mg/kg body weight for Group-V. The effects of EERAG on serum lipid profile, Body Weight and antioxidant enzymes (Superoxide Dismutase and Catalase) were assessed and compared.**Results:** Cholesterol diet induced hyperlipidemic rats showed a significant ($P<0.001$) increase in the plasma concentration of Total Cholesterol (TC), Triglycerides (TG), Low-Density Lipoprotein cholesterol (LDL-c), Very Low-Density Lipoprotein cholesterol (VLDL-c) and body weight. Decrease in High Density Lipoproteins Cholesterol (HDL-c) and antioxidant enzymes were observed when compared to normal control rats. Co-administration of EERAG and standard drug Rosuvastatin with high cholesterol diet caused a significant decrease ($p<0.001$) in the concentration of serum TC, VLDL, TG, body weight and increase in the HDL-c and antioxidant enzymes when compared with cholesterol fed control rats.**Conclusion:** The result suggests lipid lowering and antioxidant potential of effect of *A. gonocladus*, which serves as a new potential herbal product for preventing hyperlipidemia.**Keywords:** *Asparagus gonocladus*, Cholesterol, Hyperlipidaemia, Lipid profile, Antioxidant enzymes.**Erratum of the manuscript no 920 published in (May-June) 2014 issue.****OLD AUTHOR'S NAME:-**NALLAM JAHNAVI¹, PRASAD. P. NAIDU^{2*}, KOTESWARA RAO. A², KARUNASREE. C. P¹**NEW CORRECTED AUTHOR'S NAME:-** NALLAM JAHNAVI¹, P PRASAD^{2*}, KOTESWARA RAO. A², KARUNASREE. C. P¹