

## IN-VITRO ANTI-CANCER ACTIVITY OF ETHANOLIC EXTRACT OF ROOTS OF *PUERARIA TUBEROSA*

Saraswati Dubey

*Department of Chemistry, Govt. O. F. K College, Khamariya, Jabalpur (M.P.)*

**ABSTRACT :** The HeLa and MCF-7 cells were treated with Ethanolic extract of *Pueraria tuberosa* and effects on the cytotoxic nature of extract of *Pueraria tuberosa* were determined using Trypan blue and Hoechst tests. The MTT assay results were used to evaluate the anti-cancerous activity of the extract. The effects of plant Roots extract on cancer cells was studied. The IC<sub>50</sub> (1.35 µg/µl to 1.2 µg/µl.) values was found for the extract. The nature of cytotoxic activity is found to be apoptotic rather than necrosis by Hoechst test. The anti cancer effects of ethanol extract of *Pueraria tuberosa*. Roots may be related to their content of flavonoids. This study validates the traditional use of the plant in management of Cancer.

**Key words :** *Pueraria tuberosa*, Anti cancer activity.