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## Efficacy of *Curcuma longa* on histology of ovary under endosulfan induced toxicity

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India has a rich history of plants being used for medicinal purposes. *Curcuma longa* L. is extensively used as a spice, food preservative and colouring material in India, China and South East Asia. *Curcuma longa* (Fresh rhizome and its dried powder) has been used in traditional systems of medicine, like Ayurveda, Unani and Siddha as a household remedy for various diseases. In the last few decades, extensive work has been done to establish the biological activities and pharmacological actions of *Curcuma longa* and its extracts. *Curcuma longa* has been shown to have a wide spectrum of biological actions like anti-inflammatory, antioxidant, anti-carcinogenic, antimutagenic, anticoagulant, antifertility, anti-diabetic, antibacterial, antifungal, antiprotozoal, antiviral, antivenom and antiulcer activities. Studies were carried out to evaluate the efficacy of *Curcuma longa* on an organ affected by pesticide induced toxicity in female Swiss albino mice. Endosulfan, a chlorinated cyclodiene insecticide, was administered orally at 3mg per kg body weight per day one time to normal mice for 12 weeks. Further they were administered aqueous rhizome extracts of *Curcuma longa* for 12 weeks. Mice were sacrificed on the day next to the last day of treatment. Their ovaries were excised and fixed. A few other parameters were also studied. Observations showed deformities in ovarian tissue of Endosulfan exposed mice. However, histological study of *Curcuma longa* treated mice showed marked recovery. It was effective in reduction of degenerative effects, altered LPO level and restoration of weight. Hence *Curcuma longa* has the potential to mitigate the pesticide induced toxicity.

### Biography

Arti Kumari has pursuing her PhD from Magadh University, Bodh-Gaya, Bihar, India. She is SRF in a project of Indian Council of Medical Research, New Delhi, India. She has published papers in reputed journals.

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