

Jain RA, Agarwal RC, Pandey A, Jain R. Evaluation of *Argemone mexicana* fruits extract using micronucleus assay in mouse bone marrow cells. *Bull. Pharm. Res.* 2011;1(2):22-4.

Abstract: Herbs have always been used as a common source of medicines. *Argemone mexicana* is a vital herbal plant used in ayurveda as a traditional medicinal system of India. In the present investigation, the preventive effect of *Argemone mexicana* fruits extract was evaluated against cyclophosphamide-induced micronucleus formation in the mouse bone marrow cells. The single *i.p.* administration of *Argemone mexicana* fruits extract at the dose of 50, 100 and 150 mg/kg body weight, 24 h prior the administration of cyclophosphamide (at the dose of 50 mg/kg) have significantly prevented the micronucleus formations in a dose dependent manner in bone marrow cells of mice as compared to cyclophosphamide group. Therefore, plant fruits extract seems to have a preventive potential against CP-induced micronucleus formation in swiss mouse bone marrow cells.

Key words: *Argemone mexicana*, Mutagenicity, Micronucleus, Bone Marrow, Cyclophosphamide.

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