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Immunomodulating potential of Argemone mexicanahrough cytokine regulation

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A rgemonenexicanais used in folk medicines to treat many diseases in India. e decoction of leaves is used for the treatment of malaria, ulcers and chronic skin diseases. It is reported earlier that sanguinarine and dihydrosang/kitaleidtseare present in di erent parts of this plant. In the present study the leaves of Argemmexieanawere analyzed for the presence of these toxic compounds with HPTLC and GC-MS analysis and found negative for these compounds. ese toxic compounds are probably present in seeds and owers. us aqueous leaves extract was investigated to validate the e ect of plant on chronic skin diseases by regulating the expression of cytokines. Wistar albino rats were fed with non toxic dose, 250 mg/kg body weight of A. exected for 20 days. Spleens were removed from control and A. mexicented animals. Splenocytes were cultured in presence of 10 µg/ml con-A for 48 hours. IL-2, IFN-gamma and IL-10 cytokines were quantitated in culture supernatant by ELISA technique. ere was a signi cant increase in IL-10 expression as compare to control animals. In contrast IL-2 and IFN- were expressed in signi cantly low quantities when compared with control animals. It can be concluded from the study that e ect of A. mexicatia used to cure the allergic and hypersensitive type of immunological disorders of skin, like psoriasis, might be due to the stimulation of IL-10 immune suppressive cytokine, secreted by TH-2 subset of TH cells. While the cytokines secreted from TH-1 subsets, IL-2 & IFN-, which increase the immunological responses were down regulated.

Biography

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