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New source of andrographolide having potential biological activities

Cancer has been considered to be very dreadful disease. *Holmskioldia sanguinea* is a large climbing shrub found in the Himalayas at an altitude of 5,000 ft and preliminary investigation showed the excellent yield of andrographolide and subjected for the anticancer activity. Protective effect of *Holmskioldia sanguinea* leaf ethanolic extract has been investigated against Ehrlich ascites carcinoma (EAC) and Daltons ascites lymphoma (DAL) in Swiss albino mice and to evaluate the possible mechanism of action. The enzymatic antioxidant status was studied on tumour bearing mice, which shows the potential of the compound to possess

significant free radical scavenging property and revealed significant tumour regression and prolonged survival time. The isolated bioactive molecule andrographolide from *Holmskioldia sanguinea* yields (2.5%) in subject to HPTLC/HPLC analysis. The cellular defence system constituting the superoxide dismutase, catalyses was enhanced whereby the lipid peroxidation content was restricted to a larger extent. The *Holmskioldia sanguinea* is a new source of andrographolide and demonstrated the potency in treatment of cancer.

Biography

Mahesh Pal got Ph.D. Degree of Plant Natural Product Chemistry in 1998 from CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India and Postdoctoral studies from State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany Kunming, China. He is working as Principal Scientist in Phytochemistry Division at CSIR-National Botanical Research Institute, a premier Government organization, Lucknow, India. He have published more than 65 research papers in reputed journals and have been serving as an editorial board member of ten reputed journals. Currently He is working in isolation and identification of bio-molecules for anticancer, antidiabetic and antimicrobial activity from Indian medicinal Plants.

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