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## Investigation of tumor inhibitory potential of *Anisochilus carnosus* (L.F.) wall against Ehrlich ascites carcinoma- A traditionally used medicinal plant

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Indian habitant *Anisochilus carnosus* (L.F.) Wall. Lamiaceae, annual shrub is found in hilly regions of Tamil Nadu, Maharashtra, Karnataka and Rajasthan. Dry leaves of *A. carnosus* have been studied and flavonoids like luteolin, apigenin, and luteolin-7-glucoside were reported. Traditionally this plant is used to treat respiratory, skin, ulcer ailments. Bhilla tribes of Maharashtra, use its roots for cold, cough and fever. Paliyar tribal community of Tamil Nadu uses the leaf paste to treat skin diseases such as eczema and psoriasis.

**Materials & Methods:** Swiss albino mice were divided into 7 groups. Group (G) 1 mice (Normal group) received 0.05% acacia gum, G2 mice Disease control. G3 and G4 EAC mice + *A. carnosus* ethanolic extract i.p. 30 mg/kg and 50 mg/kg b.wt, G5 and G6 EAC mice+ aqueous extract 50 mg/kg and 100mg/kg. G7 EAC mice + Cisplatin (3.5mg/kg b.wt.). Following this, various factors such as tumor volume, tumor cell viability, tumor weight, prolongation of life span and haematological parameters were assessed. From the results obtained it was found there was significant lowering of all the above parameters in EAC bearing mice, considerable prolongation of host life span and restoration of haematological parameters to normal levels. with *A. carnosus* treatment. This could possibly be attributed to the phytoconstituents present in the plant such as flavonoids, phytosterol, saponins, phenols, tannins and volatile oil. Therefore *A. carnosus* is a promising alternative to synthetic substances as natural compound and is useful in cancer and prevention treatment.

### Biography

Richard Lobo is an alumnus of Manipal College of Pharmaceutical Sciences (MCOPS). He completed his BPharm with distinction in 1999 from Mangalore University, MPharm in Pharmacognosy with 1<sup>st</sup> rank and PhD in Pharmacognosy in 2003 and in 2009 respectively from Manipal University. He joined teaching in Pharmacognosy in MCOPS in 2004. He has published more than 40 research and review articles in reputed national and international journals, and contributed 2 chapters in two books. He is working as an Associate Editor for *BMC Complementary and Alternative Medicine* since 2012, as Editorial Board Member for *Journal of Pharmaceutical Crops and Current Traditional Medicine – Bentham Science* and *Journal of Bioequivalence Studies* by Annex publishers. He has teaching experience of more than 10 years, guided more than 10 PG students, and presently guiding 3 PhD scholars. He is an external examiner for reputed universities for UG, PG and PhD exams. Presently, he is working as Associate Professor, Department of Pharmacognosy, MCOPS, Manipal University.

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