

GLOBAL PHARMA SUMMIT &

2nd International Conference on

GASTROENTEROLOGY AND HEPATOLOGY

November 23-24, 2018 | Bangkok, Thailand

Praveen Srikumar Polu, Asian J Biomed Pharmaceut Sci 2018, Volume 8 | DOI: 10.4066/2249-622X-C5-014

PHYTOCHEMICAL INVESTIGATION AND IN VITRO PRELIMINARY ANTIMITOTIC STUDIES ON ETHANOLIC EXTRACT (ETOH) OF AERIAL PARTS OF *LEUCAS DIFFUSA*. BENTH

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Lucas Diffusa commonly known as Thumbai (Tamil) decumbent herb is widely distributed in Asian countries and some places in India. The objective of present study was to investigate the presence of various phytochemical constituents and preliminary antimutagenic screening for ethanolic extract. The crude EtOH extract of aerial plant of *Leucas diffusa* were taken under phytochemical investigation revealed the presence of steroids, triterpenoids, flavanoids and carbohydrates. The extract was fractionated and isolated from n-Hexane, Ethylacetate, and Chloroform partitionates by using column chromatography and preparative TLC techniques. The IR spectra of the EtOH extract indicated the presence of OH, C=O, C-H, C-O-C and NH. Cytotoxic properties of plant extracts being developed for cancer treatment are usually evaluated by a variety of *in vivo* and *in vitro* tests carried out in animal or plant based models. In the present study we have evaluated the possibility of using plant model the germinating Mung beans (*Vigna radiata*), for rapid and inexpensive screening of extract exhibiting cytotoxic properties. The EtOH extract showed strong inhibitory effect on seed germination at 100µg/mL, 250µg/mL and 500µg/mL.

Our study shows that germinating *V. radiata* beans could be used as a convenient model for the preliminary screening of drugs exhibiting cytotoxic properties.

BIOGRAPHY

Praveen Srikumar Polu Working as Professor in the Department of Pharmaceutical Analysis in MRM College of Pharmacy, Hyderabad. He has done the PhD Doctor of Philosophy in 2010 Awarded from Andhra University, Visakhapatnam, in Faculty of Pharmaceutical Sciences. Professional Diploma In Recent Clinical Trials from Pharma Help line Society, (PDRCT) Jaipur. Attended as subject evaluator for poster presentations for National seminar organized by MAM College of Pharmacy, Guntur on 8-9th Nov, 2015. Attended as subject evaluator for oral presentations in National seminar organized by ASN College of Pharmacy, Tenali, Guntur on 18th Jun, 2016. Attended as subject evaluator in Medicinal chemistry oral presentations for Pharmaphoenix-2K13 organized by Victoria College of Pharmacy, Nallapadu, Guntur, in association with IPA (Education Division, Mumbai) on 2nd April 2013. Attended as subject evaluator in Pharmaceutical Chemistry for poster presentations for National seminar organized by Acharya Nagarjuna University, Guntur on 9-10th Nov, 2012. Attended as subject evaluator for poster presentations for National seminar organized by MAM College of Pharmacy, Guntur on 8-9th Nov, 2015. Attended as subject evaluator for oral presentations in National seminar organized by ASN College of Pharmacy, Tenali, Guntur on 18th Jun, 2016. Attended as subject evaluator in Medicinal chemistry oral presentations for Pharmaphoenix-2K13 organized by Victoria College of Pharmacy, Nallapadu, Guntur, in association with IPA (Education Division, Mumbai) on 2nd April 2013. Attended as subject evaluator in Pharmaceutical Chemistry for poster presentations for National seminar organized by Acharya Nagarjuna University, Guntur on 9-10th Nov, 2012. Presented a poster presentation entitled "Synthesis and Characterization of new schiff bases containing Pyridine moiety and their derivatives as antioxidant agents" in UGC sponsored National seminar on The promise of Green Chemistry, organized by the Dept. of Chemistry, Andhra Layola College, Vijayawada on Nov 16-17th 2011 and Secure 1st prize.

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