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Studies on Anti-Depressant activity of *Spathodea campanulata* in rodents

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Background and Aim: *Spathodea campanulata* (*S. campanulata*) (family: Bignoniaceae) is a flowering tree and is native to Africa and Southern Asia. Traditionally, *S. campanulata* is useful in treatment of fever, malaria, diabetes, skin disease, filaria, gonorrhoea, epilepsy and mental disorders.


Experimental Procedure: The current study investigated antidepressant activity of ethyl acetate and methanol extracts of *S. campanulata* flowers using two models viz. forced swim test and tail suspension test. Methanol extract of *S. campanulata* exhibited impressive antidepressant activity in both the models and was further evaluated in lithium induced head twitches and open field test models. Further, a flavonoid was isolated from the methanol extract by column chromatography and characterized by different

spectroscopic techniques. Depression is primarily associated with deficiency of monoamines in different regions of brain, therefore an attempt was also made to examine possible mode of antidepressant action of isolated flavonoid by determination of monoamines and their metabolites levels in the different regions of mice brain.

Speaker Biography

Ritika Gururani has completed M.Pharm with thesis titled: "Assessment of anti-diabetic and hypolipidemic activity of selected compounds in albino rats" from Banasthali University, Rajasthan, India with 74% marks and stood second in order of merit in the year of 2017. Her area of interest is Research and Development in the field of pre-clinical pharmacology and molecular biology. She has published a research paper "Discovery of Novel Soluble Epoxide Hydrolase Inhibitors as Potent Vasodilators" in scientific reports.

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