



**PHYTOCHEMICAL AND NEUROLOGICAL INVESTIGATION  
OF *Passiflora foetida* L. (STINKING PASSION FLOWER)  
FLOWER EXTRACT ON MALE ALBINO MICE**

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### ABSTRACT

The presence of phytochemicals, such as alkaloids, steroids, terpenoids, anthraquinones, flavonoids, saponins, and tannins that may be present in the flower extract of *Passiflora foetida* L. were tested in this study. Four main procedures were generally followed to achieve the goal of this study, including extraction of the fresh flower of *Passiflora foetida*, solvent fractionation of the said extract, phytochemical analysis, and neurological analysis. The primary goal of this study was to identify the phytochemicals present in the flower of *P. foetida* that may form the basis for the significant potential of the said plant to bring about neurological effect. Phytochemical analysis revealed that only alkaloids, terpenoids, and tannins were present in the flower extract of the said plant. Among those three phytochemicals, alkaloids showed the most abundant amount since they yielded positive in all the solvents during the phytochemical screening. Meanwhile, the neurological investigation showed that the flower extract of *P. foetida* has more significant effect in eliciting CNS depression than CNS stimulation. This may be due to the high amounts of alkaloids identified beforehand. Also, among the treatment groups used, extracts from ethyl acetate (T<sub>3</sub>) showed the greatest significant effect. Extracts from the said solvent contain alkaloids and tannins. In conclusion, *P. foetida* has indeed a neurological activity and that it is a CNS depressant. Hence, it may be used as a foundation in creating drugs meant to treat neurological disorders by producing calming effect.



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