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REVIEWER'S REPORT

Manuscript No.: IJAR-IJAR-52874 Date: 17.07.25

Title: The involvement of dopaminergic, serotonergic and noradrenergic receptors in the antidepressant effect of methanol extract of Asystasia vogeliana in the Tail Suspension Test using mice

Recommendation:
Accept as it is ..... YES ....
Accept after minor revision...
Accept after major revision .....

Rating	Excel.	Good	Fair	Po
Originality			√	
Techn. Quality		√		
Clarity		√		
Significance		√		

Reviewer Name: PROF DR DILLIP KUMAR MOHAPATRA **Date:** 17.07.25

Reviewer's Comment for Publication.

(*To be published with the manuscript in the journal*)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

Detailed Reviewer's Report

This study investigates the antidepressant-like effect of methanol extract of Asystasia vogeliana (AV) in the Tail Suspension Test (TST) using mice. The findings suggest that AV extract exhibits antidepressant-like effects through interactions with the dopaminergic and serotonergic systems, but not the noradrenergic system.

Implications for Practice

- **Potential Therapeutic Application**: The study's findings suggest that AV extract may have potential therapeutic applications in the management of depression.
- **Mechanistic Insights**: The study provides mechanistic insights into the antidepressant-like effect of AV extract, highlighting the involvement of the dopaminergic and serotonergic systems.

Limitations and Future Directions

- **Further Studies**: Additional studies are needed to fully elucidate the mechanisms underlying the antidepressant-like effect of AV extract and to explore its potential therapeutic applications.
- **Clinical Relevance**: The study's findings should be validated in clinical trials to determine the efficacy and safety of AV extract in humans.

Conclusion

The study provides evidence for the antidepressant-like effect of AV extract, mediated through interactions with the dopaminergic and serotonergic systems. Further research is needed to explore the potential therapeutic applications of AV extract and to fully elucidate its mechanisms of action.