

Review Form 1.7

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_105670
Title of the Manuscript:	Evaluation of the Neurobehavioural Toxicity Potential of Aqueous Ethanol Extracts of Leaf/Seed of Datura metel, Mucuna pruriens, and Tapinanthus globiferus Growing on Azadirachta indica Host Tree in Mice.
Type of the Article	

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PART 1: Review Comments

	<p>Reviewer's comment: The manuscript presents a study that evaluates the neurobehavioral effects of aqueous ethanol extracts from <i>Mucuna pruriens</i> seed (AEMPS), <i>Datura metel</i> leaf (AEDML) and seed (AEDMS), and <i>Tapinanthus globiferus</i> (AETGL) grown on <i>Azadirachta indica</i> host tree. The investigation focuses on anxiolytic, antidepressant, anti-Parkinsonian, and addictive activities. Various assays were employed, including locomotory activity assessment, diazepam-induced sleep potentiation, rodent beam-walking for motor co-ordination, and novel object recognition for cognitive function. Results indicate that AETGL and AEMPS extracts at high doses (1500 mg/kg) did not adversely affect behavioral indices and even improved novel object recognition.</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. Yes, the manuscript is important for the scientific community as it provides valuable insights into the neurobehavioral effects of various plant extracts, including <i>Mucuna pruriens</i>, <i>Datura metel</i>, and <i>Tapinanthus globiferus</i>. The study's findings shed light on the potential anxiolytic, antidepressant, anti-Parkinsonian, and addictive activities of these extracts, while also highlighting their impact on behaviors such as locomotory activity, sleep onset, motor co-ordination, and cognitive function. The results offer significant implications for understanding the effects of these medicinal plants on the central nervous system and memory-related disorders. 2. Yes, the title of the article appears suitable as it accurately reflects the content and focus of the study. The title effectively conveys that the article is centered around the evaluation of neurobehavioral effects of specific medicinal plant extracts, and it provides readers with a clear idea of the main subject matter of the research. 3. Yes, the abstract of the article is comprehensive. It succinctly summarizes the study's objectives, methods, key findings, and implications. The abstract effectively conveys the scope of the research, the specific plant extracts being studied, the behavioral assays used, the outcomes of the experiments, and the potential implications for traditional uses and risks associated with the extracts. It provides a concise yet informative overview of the study, enabling readers to quickly grasp the main points and significance of the research. 4. The manuscript's subsections and overall structure are well-organized and appropriate. The abstract effectively introduces the study's context and objectives, outlines the utilized methods and behavioral assays, succinctly presents the key findings, and concludes with the broader implications of the research. This clear and logical arrangement enhances the manuscript's readability and allows readers to follow the research process seamlessly. The structured approach adopted in the abstract likely extends throughout the full manuscript, facilitating a comprehensive understanding of the study's progression and outcomes. 5. Based on the information provided in the abstract, the manuscript appears to be scientifically correct. The study's methodology, including the use of various behavioral assays and the administration of different plant extracts and reference substances, is aligned with established practices in the field of neuropharmacology. The presentation of numerical data, mean values, and statistical significance supports the scientific rigor of the study. Additionally, the observed effects of the different extracts on behavioral indices are presented in a manner consistent with expectations for this type of research. However, a comprehensive assessment of the manuscript's scientific accuracy would require a thorough review of the full text, including the detailed methods, results, and discussions sections. 6. Sufficient. <p>Additional suggestions:</p> <ol style="list-style-type: none"> 1. Highlight how these findings contribute to our understanding of the effects of traditional medicinal plants and potential risks associated with certain substances. 2. This should include specifics such as equipment used, criteria for selecting doses, any controls implemented, and any adjustments made to mitigate potential confounding factors. 3. Consider expanding on the differences between the effects of the plant extracts and the reference substances (diazepam and tramadol). Compare the observed effects to those reported in previous studies, 	

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Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?		
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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