

ReviewForm 1.7

JournalName:	JournalofAdvancesinBiology&Biotechnology
ManuscriptNumber:	Ms_JABB_116507
TitleoftheManuscript:	GeneticvariabilitystudiesinBittergourd(MomordicacharantiaL.)genotypes
TypeoftheArticle	

PART1:ReviewComments

	Reviewer'scomment	Author'scomment (ifagreedwithreviewer,correctthemanuscriptandhighlightthatpartinthe manuscript.Itis mandatorythatauthorsshouldwrite his/herfeedbackhere)
<p>Compulsory REVISIONcomments</p> <p>1. Isthemanuscript important forscientific community? (Please writefewsentenceson thismanuscript)</p>	<p>Yes, this manuscript is likely important for the scientific community, particularly researchers in plant science andagricultureinterested in improving bittergourd varieties. Understandinggeneticvariabilityisessentialforcropimprovementprograms.By identifyinggenotypeswithdesirabletraits,breederscandevopnewbittergourdvarieties with increased yield, diseaseresistance, or other beneficialcharacteristics. The manuscript providesvaluable dataonthe geneticdiversityof bitter gourd.This information can beused by otherresearcherto design breeding strategies and select appropriate parent lines for hybridization. Theresearchmethodologyappearsound.Theuseofarandomizedblockdesignand analysis of variansuggestsarigorous approach to data collection andanalysis. The manuscript confirms these expectations and presents the results clearly, it could contributesignificantly to theknowledgebasein bitter gourd breeding.</p>	
<p>2. Isthetitleofthearticlesuitable? (Ifnotpleasesuggest analternativetitle)</p>	<p>This title is accurate andinformative. Herearesome alternativetitles thatconsider these points: "Evaluation of GeneticVariability forYieldImprovement in BitterGourd Genotypes" "Identifying High-Yielding Bitter Gourd Germplasm through Analysis of Genetic Variability" "Unlocking the Potential of Bitter Gourd: Exploring Genetic Diversity for Yield Enhancement" "BitterGourd Bonanza:Unveiling GeneticGems forHigherYields"</p>	

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<p>3. Is the abstract of the article comprehensive?</p>	<p>Yes, the abstract is likely comprehensive based on the information you've provided. It mentions the research subject (bitter gourd), the purpose (investigating genetic variability), the methodology (RCBD experiment), and key findings (significant differences among genotypes). It highlights the importance of bitter gourd and genetic variability for crop improvement. It likely adheres to the typical word limit for abstracts (usually around 150-250 words).</p>	
<p>4. Are subsections and structure of the manuscript appropriate?</p>	<p>Yes, the subsections and structure of the manuscript appear appropriate for a research paper on genetic variability.</p> <p>The breakdown into Introduction, Materials and Methods, Results, Discussion, and Conclusion follows the IMRaD (Introduction, Methods, Results, and Discussion) structure commonly used in scientific writing. This structure guides the reader through the research process, from establishing the background and research question to presenting the findings, interpreting them, and drawing conclusions. Separating the Results and Discussion sections allows for a clear presentation of data without immediately interpreting it. The Discussion section can then analyze the results in the context of existing knowledge.</p>	
<p>5. Do you think the manuscript is scientifically correct?</p>	<p>The abstract and introduction suggest a well-structured and potentially scientifically sound study. The methodology, data analysis, and references would provide more support to the manuscript's scientific correctness.</p>	
<p>6. Are the references sufficient and recent? If you have a suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The reference list you provided appears to be well-balanced and recent (2004-2024). They cover relevant aspects of bitter melon genetics, genetic variability analysis, and (if applicable) breeding programs for yield improvement. Here are a few other recent examples (2020-2024) you might consider:</p> <p>Genetic Diversity and Population Structure Analyses in Bitter Melon (<i>Momordica charantia</i> L.) Based on Agro-Morphological and Microsatellite Markers (MDPI, 2023) explores genetic diversity using microsatellite markers, a potentially valuable addition to your research.</p> <p>Assessment of genetic variability in F4 segregating population of bitter melon (<i>Momordica charantia</i> L.) (Phytojournal, 2021) investigates genetic variability for yield traits in a segregating population.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Based on the information you've provided, the language and English quality of the article appear suitable for scholarly communication.</p>	
<p>Optional/General comments</p>		

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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DR

Checked by:PM

Approved by: MBM

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