

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_130918
Title of the Manuscript:	Exploring the Dynamics of Genetic Parameters: Genetic Variability, Heritability and Character Association in Rice (Oryza sativa L.)
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	Genetic variability studies provides crucial insights for selecting desirable genotypes for breeding programme. Estimating heritability helps plant breeders determine the effectiveness of selecting desirable traits across generations.Character association analysis aids in identifying key traits that significantly contribute to improving rice productivity and quality.	Genetic variability in a crop species is a boon to plant breeders and ecosystems as a whole. The final outcome of a breeding program relies on the proportion of desired genetic variability and its heritability to the progeny. The trait association helps understand the direct or indirect influence of the component trait on the expression of the dependent trait.
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	Yes
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Conclusion with recommendation should be added in the last portion of abstract	Action taken
Is the manuscript scientifically, correct? Please write here.	Yes	Yes
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References should be added in same format with doi Some recent studies about this field I recommend to add references  1. Hossain, M. M., Azad, M. A. K., Alam, M. S., & Eaton, T. E. (2021). Estimation of variability, heritability, and genetic advance for phenological, physiological, and yield-contributing attributes in wheat genotypes under heat stress condition. <i>American Journal of Plant Sciences</i> , 12(4), 586-602. <a href="https://doi.org/10.4236/ajps.2021.124039">https://doi.org/10.4236/ajps.2021.124039</a>  2. Hossain, M. M., Azad, M. A. K., Eaton, T. E.-J., & Siddquie, M. N.-A. (2021). Assessment of different traits to evaluate genetic divergence in some wheat ( <i>Triticum aestivum</i> L.) genotypes under late sowing	Action taken

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	<p>condition. <i>American Journal of Plant Sciences</i>, 12(5), 734-747. <a href="https://doi.org/10.4236/ajps.2021.125049">https://doi.org/10.4236/ajps.2021.125049</a></p> <p>3. Karikor, M. A. S., Kabir, M. S., Hossain, M. M., Azad, M. A. K., Mohamud, M. A., Rahman, M. H., Shumsun, N., &amp; Hoque, M. A. (2022). Estimation of combining ability and heterosis in wheat. <i>International Journal of Advances in Agricultural Science &amp; Technology</i>, 9(12), 1-46. <a href="https://doi.org/10.47856/ijaast.2022.v09i12.001">https://doi.org/10.47856/ijaast.2022.v09i12.001</a></p> <p>4. Mohamud, M. A., Hoque, A., Hassan, A. H., Hossain, M. M., Monira, S., &amp; Muse, M. I. (2022). Estimation of genetic variability, heritability, and genetic advances for short duration and high yielding rice genotypes. <i>Journal of Advances in Agricultural Science &amp; Technology</i>, 9(10), 34-55. <a href="https://doi.org/10.47856/ijaast.2022.v09i10.004">https://doi.org/10.47856/ijaast.2022.v09i10.004</a></p>	
Is the language/English quality of the article suitable for scholarly communications?	Yes but minor change is needed	yes
Optional/General comments	<p>Overall good some minor change is needed. Please follow the following instructions</p> <p>In the <b>introduction</b> part, the author's summary and description of literature review lack comprehensiveness regarding to the objectives of this study. Additionally, there is a lack of clarity in identifying the breakthrough point of this study and addressing key scientific problems.</p> <p>In <b>materials and method part</b>, Cultivate area with geographic location, cultivate condition like temperature, rainfall, humidity, precipitation should be added. Which data have you collected and which methods have you used to collect and measure the data you should explained properly</p> <p>In the <b>result and discussion section</b> need more clearly discussion the implications and underlying mechanisms within the experiment.</p>	Action taken

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?	(If yes, Kindly please write down the ethical issues here in details)	No ethical issues