Review Form 1.7

Journal Name:	**Journal of Experimental Agriculture International**
Manuscript Number:	**Ms_JEAI_107856**
Title of the Manuscript:	**Estimation of Genetic Variability, Heritability and Genetic Advance in Indian Mustard [Brassica juncea (L.) Czern & Coss]**
Type of the Article	**Original research**

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PART 1: Review Comments

	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)*
Compulsory REVISION comments 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.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**The manuscript important for scientific community** 27 genotypes of Indian mustard [Brassica juncea (L.) Czern & Coss] were evaluated for genetic variability, heritability and genetic advance for nine yield and yield attributing characters. The experiment was carried out during Rabi 2022 in Randomized Block Design (RBD) at Agricultural Research Station, Ummedganj-Kota, Rajasthan. ANOVA of nine quantitative characters revealed significant differences at 1% level of significance. Mean values of seed yield showed that NPJ 261 had highest seed yield (kg/ha) followed by RH 2199 and RB-110. Also, they were at par with each other. High genotypic and phenotypic coefficient of variation was found in number of secondary branches per plant. Phenotypic variance had higher values than genotypic variance indicating the influence of environment. High heritability estimates coupled with high Genetic Advance as percentage of mean were reported for number of secondary branches per plant, number of siliquae per plant and 1000-seed weight. These characters are highly heritable as they are governed by additive gene action. Selection for these characters will be effective in future breeding programme. **The title of the articleis suitable** **The abstract of the article is comprehensive** **Subsections and structure of the manuscript are appropriate.** **The references are sufficient and recent**	
Minor REVISION comments 1. **Is language/English quality of the article suitable for scholarly communications?**	English quality of the article is suitable	
Optional/General comments	High heritability estimates coupled with high GAM were reported for… define GAM the first time you mention it Indian mustard [Brassica juncea (L.) Czern & Coss] is one of the most important oilseed crops of India, occupying a considerably large area among the Brassica group of oilseed crops. were evaluated for genetic variability, heritability, and genetic advance for nine yield and Phenotypic variance had higher values than genotypic variance, indicating… Selection for these characters will be effective in future breeding programmes. The genetic variability in any breeding material is a prerequisite as it provides not only a basis for selection but also provide valuable information regarding the selection of diverse parents for use in hybridization …advance for each quantitative characters were… High to moderate genotypic and phenotypic coefficient of variation indicates that the… … broad sense or the degree of genetic determination is the ratio of genotypic and phenotypic variance, Analysis of variance revealed that all the nine… Selection for these characters will be effective in future breeding programmes. Hence, breeders should emphasize on these characters in	

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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)*	

Reviewer Details:

Name:	**Leonardo Ornella**
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