Review Form 3

JournalName:	**JournalofExperimentalAgricultureInternational**
ManuscriptNumber:	**Ms_JEAI_122534**
TitleoftheManuscript:	**GeneticdiversityanalysisinSesame(SesamumindicumL.)**
TypeoftheArticle	**Originalarticle**

Review Form 3

PART1:ReviewComments

CompulsoryREVISIONcomments	**Reviewer'scomment**	**Author's Feedback** *(Please correct the manuscript and highlight that part inthemanuscript.Itismandatorythatauthorsshouldwrite his/herfeedback here)*
Please write a few sentences regarding the importance ofthismanuscriptforthescientificcommunity.Whydo youlike(ordislike)thismanuscript? Aminimumof3-4 sentences may be required for this part.	The sesame accessions. One key challenge in managing and utilizing these germplasm collections is developingstrategiestoreducetheirsizetoamoremanageableandaccessiblelevel.Toconserveand use genetic diversity effectively, it is essential to comprehend its nature andstructure. Forhybridization, a broad range of genetic diversity among parent plants is necessary, making knowledge of the genetic diversity and relationships within sesame populations vital for plant breeding programs. By examining morphological and agronomic traits, researchers can uncover the genetic diversity presentincropspecies.	
Isthetitleofthearticlesuitable? (Ifnotpleasesuggestanalternativetitle)	**Itissuitabletitleofthisarticle**	
Is the abstract of the article comprehensive? Do you suggesttheaddition(ordeletion)ofsomepointsinthis section? Please write your suggestions here.	**Thesummaryiscomprehensive.Itispreferabletodeletethestudydesignfromthesummarybecause the design is mentioned in detail in the methods and materialsof this manuscript.**	
Aresubsectionsandstructureofthemanuscript appropriate?	**Thesubsectionsandstructureofthemanuscript areappropriate.**	
Please write a few sentences regarding the scientific correctnessofthismanuscript.Whydoyouthinkthat thismanuscriptisscientificallyrobustandtechnically sound? A minimum of 3-4 sentences may be required for this part.	**The present study highlights that genetic diversity plays a crucial role in generating variation. This suggests that there is more genetic diversity in the evaluated genotypes. Based on cluster analysis, the highest intergroup distance was observed between I and IV followed by I and V and then IV and VI, thus hybridization between the above groups is likely to produce highly homogeneous offspring compared to othergroups.TheseresultsrevealedthatgroupsIIIandIVaswellasVandVIhavethehighestamountof variation, indicating their ability to use genotypes as parents, resulting in a wide range of variation for effectiveselection.**	
Arethereferencessufficientandrecent?Ifyouhave suggestions of additional references, please mention them in the review form. **-**	**Thereferencesaresufficientandrecent.**	
<u>Minor</u>REVISIONcomments **Isthelanguage/Englishqualityofthearticlesuitable for scholarly communications?**	**Englishlanguagequalityofthearticleissuitable**	
Optional/Generalcomments	Notes: 1. SomesymbolssuchasNBPGRrequirewritingthefullnameofthesymbolsinordertounderstandtheir content. 2. Theresearcherdidnotmentiontheenergylevelingeneralinsesameseedsandinthehybridsresultingfromthe genotypes. 3. ItispreferabletowritethedesignRBDinsteadofthesymbols. 4. Adifference wasnotedbetweenthegroupsinthenumber ofgenotypes.Whatisthereasonforthedifferencein the number? 5. Didtheresultinghybridsexcelinproductionandresistancetobadclimaticconditions.	

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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:

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