

Review Form 3

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| Journal Name: | Journal of Scientific Research and Reports |
| Manuscript Number: | Ms_JSRR_128063 |
| Title of the Manuscript: | "EXPLORING GENETIC VARIABILITY IN SESAME (SESAMUM INDICUM L.) GENOTYPES FOR BREEDING AND IMPROVEMENT" |
| Type of the Article | |

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. | Sesame is an essential oilseed crop in India, contributing 40-63% of the country's production. It is rich in polyunsaturated fatty acids, which play a crucial role in preventing various human diseases. However, meeting the growing demands of the increasing population requires enhancements in both yield and quality. Genetic variability is a fundamental step in any crop improvement program. Therefore, the objectives of this manuscript are critical for initiating breeding programs aimed at improving traits in sesame. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | Yes, its appropriate. | |
| 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. | It would be better if the source/pedigree/ type of accession/ IC or EC of experimental material is mentioned in abstract and detailed in the manuscript. | |
| Is the manuscript scientifically, correct? Please write here. | Yes, the manuscript is scientifically correct. However, there are some points I would like the author to incorporate if possible: <ol style="list-style-type: none"> 1. Some data need to revisit and reanalysed. I have marked them. Kindly track the changes and check them once again. 2. It would be better to supplement the manuscript with a table giving clear idea about the source of material. 3. Mean table can be added in supplementary files for betterment of the reader. 4. Details about the experimental site can be enhanced by adding more information like rainfall, type of soil and other weather parameters. 5. Other minor changes can be tracked in the main manuscript. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | Some cited references are missing in the bibliography section. Kindly add them. If possible, add latest references related to the work done in the discussion. | |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, it is fine. | |
| Optional/General comments | Since sesame is an oilseed crop, it would be better if oil content of these 68 genotypes have been estimated and incorporated. Additionally, the author can add more quantitative traits such as biological yield per plant and harvest index or any other disease data. Overall, its ok. | |

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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> |
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| 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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|----------------------------------|-------------------------|
| Name: | Ronika Thakur |
| Department, University & Country | CSIR-IHBT, India |