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| Journal Name: | [**Journal of Experimental Agriculture International**](https://journaljeai.com/index.php/JEAI) | | |
| Manuscript Number: | **Ms\_JEAI\_139970** | | |
| Title of the Manuscript: | **THE STUDY OF GENOTYPIC VARIATION IN SEED PHYSIOLOGICAL TRAITS OF SUNFLOWER (HELIANTHUS ANNUUS L.) UNDER INDUCED SALINITY STRESS DURING GERMINATION** | | |
| Type of the Article |  | | |
| **PART 1: Comments** | | | | | |
|  | | | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) | |
| **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.** | | | **This manuscript provides valuable insights into the genotypic variability of sunflower in response to induced salinity stress during germination—one of the most critical stages of crop development. By evaluating a diverse set of sunflower genotypes under controlled saline conditions, the study offers practical data that can inform breeding programs aiming to improve salt tolerance. The findings contribute to a better understanding of physiological traits associated with early-stage stress resilience, which is crucial for enhancing crop performance in salt-affected regions. Overall, the study addresses a pressing agricultural challenge and adds meaningful knowledge to the fields of plant physiology and stress**  **tolerance** |  | |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | | | **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.** | | | **Minor suggestions for improvement: a concluding sentence emphasizing the study’s practical applications—such as supporting breeding efforts for saline environments.** |  | |
| **Is the manuscript scientifically, correct? Please write here.** | | | yes |  | |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | | | **The references are generally well-chosen, combining both foundational and recent studies relevant to salinity stress and sunflower physiology. They are academically formatted and reflect a solid understanding of the topic. A slight improvement could be the inclusion of more top-tier or ISI-indexed**  **sources to further enhance the paper’s scientific credibility** |  | |
| **Is the language/English quality of the article suitable for scholarly communications?** | | | yes |  | |
| **Optional/General** comments | | |  |  | |

**PART 2:**

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|  | **Reviewer’s comment** | **Author’s Feedback** (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 detail)*  no |  |

**Reviewer details:**

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