

Review Form 1.7

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| Journal Name: | Journal of Advances in Biology & Biotechnology |
| Manuscript Number: | Ms_JABB_119207 |
| Title of the Manuscript: | Combining ability studies for grain yield and its component traits in sweet corn ((Zea mays var. saccharata) |
| Type of the Article | Original Research Article |

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://journaljabb.com/index.php/JABB/editorial-policy>)

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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) |
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| <p><u>Compulsory</u> REVISION comments</p> <ol style="list-style-type: none"> 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. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>I would like to extend my congratulations on your manuscript titled "Combining Ability Studies for Grain Yield and Its Component Traits in Sweet Corn (Zea mays var. saccharata)." Your research offers valuable insights into the genetic mechanisms underlying sweet corn productivity, which is crucial for breeding programs aimed at improving this economically important crop. Below are some specific comments and commendations:</p> <p>Your study addresses a critical area in sweet corn breeding by focusing on combining ability for grain yield and its components. The results are highly relevant to breeders and researchers working to enhance sweet corn varieties for better yield and quality.</p> <ul style="list-style-type: none"> <input type="checkbox"/> The use of a comprehensive set of parental lines and hybrids for the combining ability analysis is commendable. It ensures robust and reliable results. <input type="checkbox"/> The application of Griffing's method for combining ability analysis is appropriate and well-executed. It provides a clear understanding of general and specific combining abilities, which is crucial for identifying superior parents and hybrids. <input type="checkbox"/> The presentation of results in tables and figures is clear and informative. The data is well-organized, making it easy for readers to follow and understand the key findings. <input type="checkbox"/> The inclusion of multiple traits alongside grain yield enriches the study, offering a holistic view of the genetic interactions in sweet corn. <p>Suggestions for Improvement:</p> <ul style="list-style-type: none"> • While your manuscript is strong overall, it might benefit from a more detailed discussion on the environmental factors that could influence combining ability and trait expression in different genotypes. • Consider adding more specific examples or case studies where the identified superior combiners have been used successfully in breeding programs. <p>Final Remarks:</p> <ul style="list-style-type: none"> • Overall, your manuscript is a significant contribution to the field of plant breeding and genetics. The meticulous approach, comprehensive analysis, and practical relevance of your findings make it an excellent resource for researchers and breeders alike. <p>Thank you for your hard work and dedication to advancing our understanding of sweet corn genetics. I look forward to seeing your research make a meaningful impact in the field.</p> | |
| <p><u>Minor</u> REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? | <p>Yes, the English is well written</p> | |

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| Optional/General comments | General Comments Comments: 1. The manuscript has some grammatical errors and typos. 2. Some sections lack clarity and coherence. Suggestions: • Proofread the manuscript carefully to correct grammatical errors and typos. • Ensure each section flows logically and is easy to understand. | |
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PART 2:

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| | 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? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|-----------------------|
| Name: | Muhammad Mehran Anjum |
| Department, University & Country | Switzerland |