

Paper: **“Genetic Variability, Heritability, Genetic Advance, Path Coefficient Analysis, and Inter-Character Relationships in Colocynth (*Citrullus colocynthis* [L.] Schrad.) from Southeastern Villages of the Benin Republic”**

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Peer review:

Reviewer 1: Mohammed Mahmood Mohammed
University of Baghdad, Iraq

Reviewer 2: Blinded

Reviewer A:

Recommendation: Revisions Required

The TITLE is clear and it is adequate to the content of the article.

The title is mostly clear and adequately reflects the content of the article, but it could be refined for better readability.

Revised Title: "Genetic Variability, Heritability, Genetic Advance, Path Coefficient Analysis, and Inter-Character Relationships in Colocynth (*Citrullus colocynthis* [L.] Schrad.) from Southeastern Villages of the Benin Republic"

The ABSTRACT clearly presents objects, methods, and results.

The abstract provides a good overview of the study's objectives, methods, and results. However, it could be improved for clarity and conciseness.

There are a few grammatical errors and spelling mistakes in this article.

The study METHODS are explained clearly.

The study's methods are explained in detail, but there are areas where the explanation could be clearer, more organized, and more concise.

The body of the paper is clear and does not contain errors.

The body of the paper is generally clear.

The CONCLUSION or summary is accurate and supported by the content.

The conclusion effectively summarizes the study's findings, particularly the importance of genetic variability, heritability, and genetic advance in crop improvement. However, for more clarity provide more detail on which specific traits are most valuable for breeding purposes based on the study's results. Also, Refine the wording for precision, especially in distinguishing between additive and non-additive genetic effects.

The list of REFERENCES is comprehensive and appropriate.

The list of references appears comprehensive, but ensuring uniform formatting, relevance, and completeness will enhance its appropriateness for your manuscript. For example:

- Verify the relevance of each reference to your specific study area. For example, "Boelsma et al. (2001)" on nutritional skin care may not be directly relevant unless it is linked to your study's objectives.
- It would be beneficial to include more recent studies (from the last 5 years) to ensure that the literature review is current, especially if there have been significant advancements in the field.

Please rate the TITLE of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the ABSTRACT of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the LANGUAGE of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the METHODS of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the BODY of this paper.

[Poor] 1-5 [Excellent]

4

Please rate the CONCLUSION of this paper.

[Poor] 1-5 [Excellent]

3

Please rate the REFERENCES of this paper.

[Poor] 1-5 [Excellent]

3

Overall Recommendation!!!

Accepted, minor revision needed

Comments and Suggestions to the Author(s):

Dear Author,

- The title is comprehensive but could benefit from being more concise. Consider shortening it while retaining the essential aspects of the study.
- The abstract provides a clear overview of the study but is somewhat lengthy. Focus on summarizing key findings and implications more concisely to improve readability.
- The language used is generally clear but could be refined for better flow. Proofread for grammatical errors and consider simplifying complex sentences to enhance clarity.
- The methods section is detailed and appropriate. Ensure that all methodologies are described clearly, and consider adding more specifics about the statistical analyses used.
- The body of the paper is informative but needs more clarity and consistency. Ensure that each section transitions smoothly to the next. Address any inconsistencies in the presentation of results and discussions.
- The conclusion accurately summarizes the findings but could be more impactful. Consider emphasizing the main contributions of the study and suggesting practical applications or future research directions.
- Ensure that all references are formatted correctly and that they are pertinent to the study. Consider removing or updating any outdated or less relevant sources.
