

Review of: "Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed *Zea Mays*"

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Potential competing interests: No potential competing interests to declare.

The study is well-structured and addresses an important issue in agricultural science. The use of iron oxide nanoparticles to alleviate saline stress in *Zea mays* is a novel approach with significant potential. The findings contribute to the understanding of nanotechnology's role in addressing agricultural challenges. The manuscript is well-written, and the research is conducted with rigor. I will recommend minor revisions for further improvement.

Abstract:

1. Abstract is well written, but can be further strengthened.

Introduction

1. Consider including more references to provide a more informative context.
2. Ensure consistent formatting of references throughout the entire manuscript.
3. Include clear objectives at the end of the introduction, as they are currently missing.

Materials and methods

1. Please provide a citation for the protocol you are following in Section 2.4.
2. In Section 2.10, kindly specify the statistical tool you employed for the analysis.

Results

1. There is room for improvement in the language used in the results section.
2. In Section 3.2, could you come up with an alternative and more fitting heading?
3. Figure 5 appears to have considerable noise. Could you please provide a clearer version?
4. In Table 3, please ensure that the latter half of the sentences is written in lowercase, maintaining consistency throughout the entire manuscript.
5. In Section 3.7, ensure that '*Zea mays*' is italicized, and please maintain this formatting throughout the entire manuscript.
6. The statistical letterings require correction.

Conclusion

1. Conclusion is well written.

Supplementary

1. Kindly provide a clearer version of Supplementary Image 2.