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.

In this research, "Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays," the design of this experiment is interesting; however, there are some minor and major issues. Overall, I hope that the authors will solve these issues in the manuscript, improve the quality, and make it suitable for publication. I have recorded all my comments and opinions in the attached file in the Supplementary data.

- In the title, write the scientific name in italic form, "*Zea mays*."
- It is better to abbreviate all the plant names mentioned after the first mention of the plant's scientific name in the text, e.g., *Z. mays*; please edit all text.
- Please write all titles in one format.
- In Materials & Methods, 2.6, "Assessment of Antioxidant Enzyme Activity," what was the pH of the phosphate buffer? Also, was a phosphate buffer without EDTA and polyvinyl pyrrolidone (PVP) used to obtain the extract?!!!
- In Materials & Methods, 2.10, "Statistical Analysis," what statistical software was used to analyze the data, and what software was used to draw the graphs? Please describe here.
- In Materials & Methods, 2.10, "Statistical Analysis," it is better to describe the experimental design in this section by mentioning the number of treatments and the number of repetitions (the number of each pot for each treatment).
- The discussion in the green synthesis of iron oxide NPs section is weak. Please rewrite this section.
- Please check the significant letters at the top of each column in the graphs. The relationship between the significant letters and the values listed in each column does not match and causes the reader to get confused.
- In figures 6-10, please write the unit name in complete form (IU/mL).
- In figures 7 and 8 and Supplementary Attachment 1; as you mentioned in the Materials and Methods section (units per mL), I think the unit for CAT and SOD should be written as (IU/mL).