

Peer Review

Review of: "Cadmium Toxicity Induced Changes on Antioxidative Enzymes Level in Fresh Water Catfish *Channa Punctatus* (Bloch)"

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Correct Critical Error: Revise the Discussion section on Page 10 to accurately describe the **decrease** in SOD and CAT activity and remove all incorrect mentions of "fluoride."

Clarify Methods: Add detailed information on sample size (n), exposure system (static/renewal), water quality parameters, source of chemicals, and histopathological staining methods.

Revise Results Text: Ensure every statement in the text of the Results section perfectly matches the data presented in the tables and figures.

Improve Data Presentation: Present data in tables as Mean $\pm$ SEM for each group. Ensure statistical annotations are consistent and clear across all tables and figures.

Edit Language: Perform thorough professional English language editing to improve clarity, grammar, and flow.

Focus Discussion: Shorten the general review of oxidative stress and instead provide a deeper interpretation of the current study's results, explaining the biological implications of the observed changes.

Proofread: Carefully proofread the entire manuscript to eliminate typographical errors and formatting inconsistencies (e.g., spacing in citations "et al.,2023" should be "et al., 2023").

Conclusion

The study has a sound premise and utilizes appropriate techniques. The data presented (assuming the tables are correct) show a clear pattern of cadmium-induced oxidative stress and liver damage. However,

the critical error in the discussion regarding the direction of change in enzyme activities and the mention of the wrong pollutant (fluoride) is a severe flaw that must be addressed. Once all major and minor concerns are thoroughly rectified, this manuscript could become a valuable contribution to the field of aquatic toxicology.

Declarations

Potential competing interests: No potential competing interests to declare.