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| Book Name: | [**Food Science and Agriculture: Research Highlights**](https://www.bookpi.org/bookstore/product/food-science-and-agriculture-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6116** |
| Title of the Manuscript:  | **Evaluation of disparate multiplicities of copper oxide nanoparticles integrated feed on the growth and hematology of koi carp** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | Overall good work. This work adds scientific input to formulate fish feed with CuO nanoparticles. The evaluation of growth parameters and hematological indices of koi carp provides valuable insights into the physiological responses induced by nanoparticle-integrated diets. Such findings can guide the optimization of feed composition for improved fish health and productivity. Moreover, understanding the potential benefits and any adverse effects of nano-based feed additives will contribute for further research on application of nanoparticle in fish nutrition and disease resistance. The fish formulation can be upscaled in future. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Justify the use of **“**disparate multiplicities” in the title. Authors may use the scientific name and common name of koi carp inside the parenthesis.  |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | “The Koi carp’s condition factor and feed utilization metrics were greater in feed VI. From feed I to feed VI, all other parameters are gradually reduced while the WBC count is steadily increased. The study came to the conclusion that Koi carp might grow well with 200 mg of copper oxide nanoparticles mixed with diet.”1. Rewrite the above lines with more clarity.
2. Justify the use of ambiguous statement “ might grow” in conclusion of the abstract.
3. No mention of scientific name of koi carp.
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| **Is the manuscript scientifically, correct? Please write here.** | 1. Is the scientific name of koi fish correct? Or some typo mistake is there? *Cyprinuscarpio var. koi*. This mistake is there all over the manuscript. Please do correction.
2. Give the reference in methods section. The authors can mention the lab standardised method if they themselves have produced the method.
3. GPS Location of the collection site not given.
4. In discussion part, add a few more references. “Fish species’ health status is determined by haematological markers. From feed I to feed VI, the Koi carp’s white blood corpuscles progressively rose while their red blood corpuscles, haemoglobin, hematocrit, and platelets steadily declined.” Please give reason by adding a few more references.
5. The increase in WBC and decrease in RBC due to nano integrated feed needs more discussion.
6. Is there any adverse effect? Plaese explain.
7. Is the hematology part mentioned in conclusion? “The present study concludes that 200 mg/100g of copper oxide nanoparticles (CuO NPs) in the feed were suitable for the enhanced growth of Koi carp. Hence the ornamental fish keepers integrate copper in the feed of ornamental fishes.”
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| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | 1. Add a few more references in material and methods section and discussion section.  |  |
| Is the language/English quality of the article suitable for scholarly communications? | The Enlish quality has a scope of improvement. The authors are requested to work on paraphrasing a few grammatically incorrect and vague sentencesEg “This is because the current work was done.”This line is in introduction part stating the research gap and objectives. Authors are requested to rewrite this section.  |  |
| Optional/Generalcomments |  |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Yutika Narzary, Bodoland University, India**