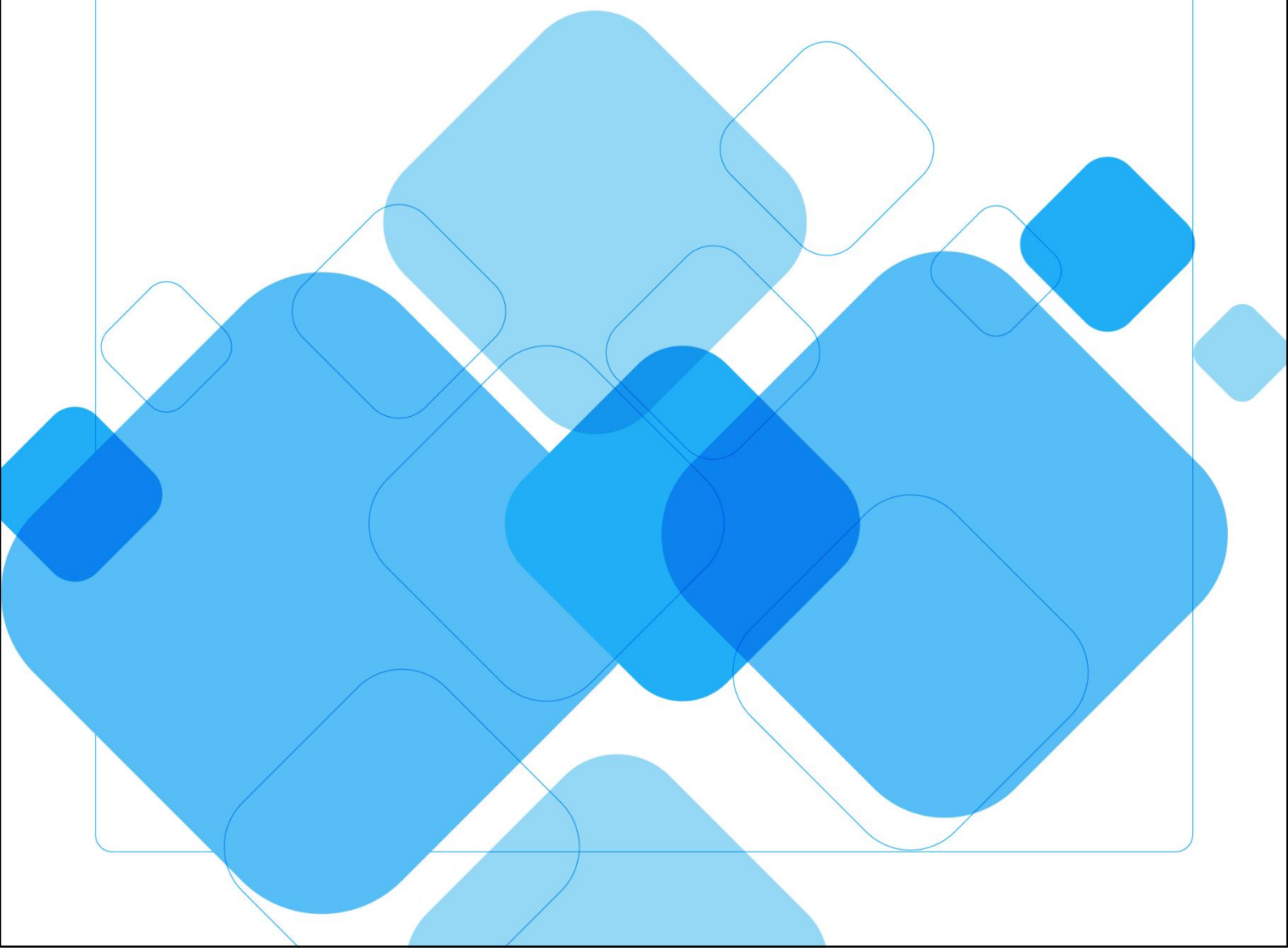




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Peer Review Service Summary

Requirement	Peer Review Service
Service Type	Manuscript Peer Review Service

Background

Reference 4295

Title

The title is clear in terms of objective, outcome and target.

Abstract

Abstract. This is too wordy and unhelpful.

We do not need to read a litany of information in the introduction.

First paragraph: The authors introduce the term MDA for the first time and need to expand the abbreviation here.

Introduction

Major Comments

Line 25-37 – The entire para discussed chemical pollution and its impact on the environment, especially freshwater fauna. However, it would be interesting to know how copper pollution appears in the aquatic environment from natural and anthropogenic sources. Secondly, there is also needed to emphasize on why authors have chosen liver (e.g. maybe liver is known to be the primary organ for copper storage in fish), kidney and gill to study histo-cytological changes.

Line 57: In the available literature, we did not find any data on the effects of copper ion on antioxidant enzyme activities and lipid peroxidation of Capoeta umbla tissues.

Reviewer Comments: The review is not very detailed. The critical issues in this paper were not addressed. The author should review previous literature on copper ion on antioxidant enzyme activities and lipid peroxidation in general (or so far studied fish), which would shed light on readers on the findings in terms of its basic mechanism (e.g. *C.Auratus*, is been studied already). If not, there should clear and precise justification on why the author has chosen the Capoeta Umbla tissues.

Minor Comments

Line 47: Copper sulphate pentahydrate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) has a multitude of uses in agriculture (Straus et al., 2012).

Reviewer Comments: Should indicate its usage

Materials and Methods

Reviewer Comments: Statistical Analysis: Due to the nature of the sample and size, data should be expressed in the mean and standard error rather than standard deviation

Results

Table and Figures

Reviewer Comments:

- Sample size in the Table and in the results section are missing
- MDA, CAT, GSH and all other variables in the Tables need to be abbreviated.
- p. 15, line 5: Figure 2 was not included in the manuscript.
- Figures: Figure 1: Provide a different filler for the "negative" graph bar, maybe a solid, not pattern. As is, it cannot be distinguished.

Discussion

Reviewer Comments: In the discussion, while comparing the previous studies, authors can include only the context with supportive reference rather than starting with the author. For example,

In this study, significant differences were similarly found in the antioxidant responses and capacities of gill, liver and gills. Yonar et al. (2016) reported that the tissue differences could be due to different rates of free radical generation, differences in susceptibility to oxidative 168 damage or different antioxidant capacities of the tissues" can be written as

Reviewer Comments: "In this study, 165 significant differences were similarly found in the antioxidant responses and capacities of gill, liver and gills. The tissue difference could be due to different rates of free radical generation, differences in susceptibility to oxidative damage or different antioxidant capacities of the tissues (Yonar et al. 2016)

Reviewer Comments: A conclusion statement is missing in terms of how the present study results contribute to the objective and the overall literature. A recommendation for further studies should be included especially to elucidate the underlying mechanisms involved in the long-term toxicity profile of ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) in Capoeta Umbla tissues.

- p. 17, line 11: Consider deleting the last "the."
- p. 17, line 23: Consider adding the word "the" between "in" and "level" and adding an "s" after the word "month."
- References: Header should be centred.
- Add in-text citations of the following references to the reference list: Stein & Hedger, 1997
- The following references are not cited in the text.
- Remove from reference list or add to text:
 - o Marcus & Kunda, 1986 Showers... 1998
- Check publication date for Striegel-Moore reference/citation... 2002 or 2006?