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Manuscript NO: 87801

Title: Computational exploration of the significance of COPS6 in cancer: Functional and clinical relevance across tumor types

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Peer-review model: Single blind

Reviewer’s code: 06240013

Position: Peer Reviewer

Academic degree: Doctor, MD

Professional title: Doctor

Reviewer’s Country/Territory: United Kingdom

Author’s Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-09-11 09:46

Reviewer performed review: 2023-09-13 11:49

Review time: 2 Days and 2 Hours

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<tr>
<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
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<th>Novelty of this manuscript</th>
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<th>Grade B: Good</th>
<th>Grade C: Fair</th>
<th>Grade D: No novelty</th>
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<th>Creativity or innovation of this manuscript</th>
<th>Grade A: Excellent</th>
<th>Grade B: Good</th>
<th>Grade C: Fair</th>
<th>Grade D: No creativity or innovation</th>
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### SPECIFIC COMMENTS TO AUTHORS

The study by Wang et al investigates using computational methodology the role of COPS6 in various types of cancers. The topic is interesting, and the manuscript is well written. However, I think some points merit attention before publication. Please find my suggestions for improvement below which the authors might find them useful.  

1. **Title:** This study implements only computational tools for their objectives. I think this needs to be mentioned in the title. A suggestion would be: “A computational exploration of the significance of COPS6 in cancer: Functional and clinical relevance across tumor types”  

2. **Abstract:** Line 7 & line 23; the authors should avoid strong words such as robust or comprehensive as this is only a bioinformatic study and not experimental or clinical trial. Please change the wording.  

3. **Methods:** Could the authors describe in more detail what data from TCGA were downloaded, the date of the download, how the data were pre-processed  

4. **Results:** Please provide a better resolution of the figures  

5. **Discussion:** a. The authors should mention what the novelty of the study is. Are there any other studies that investigate COPS6 in pan-cancer? b. A major comment is that there is no limitation paragraph in the manuscript. It is essential to include a
paragraph mentioning the limitations of this study and how these affect the interpretation of the scientific findings. c. Conclusion paragraphs: i. Please avoid the use of strong words such as substantial or compelling. Please rephrase sentence on page 18, paragraph 2, lines 1-2: A suggestion would be “Our study showed a potential association of COPS6 with survival outcomes in various tumours”. This study was not a biomarker study therefore it cannot be supported that COPS6 has a substantial impact on survival outcomes. ii. Please rephrase paragraph 3 on page 18: A suggestion would be “Taken together, our study provides early evidence that COPS6 may be associated with clinicopathological characteristics in various tumors and may play a role in several cancer hallmarks. Further research is needed to elucidate further the role of COPS6 in cancer progression.”