



## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 81670

**Title:** Machine learning algorithm to construct cuproptosis and immune-related prognosis prediction model for colon cancer

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06412958

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-11-23

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-11-24 05:35

**Reviewer performed review:** 2022-12-03 12:52

**Review time:** 9 Days and 7 Hours

|                           |   |
|---------------------------|---|
| <b>Scientific quality</b> | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good<br><input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish            |
| <b>Language quality</b>   | <input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing<br><input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection |
| <b>Conclusion</b>         | <input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority)<br><input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection             |
| <b>Re-review</b>          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |



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| <b>Peer-reviewer<br/>statements</b> | Peer-Review: [ <input checked="" type="checkbox"/> ] Anonymous [ <input type="checkbox"/> ] Onymous<br>Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No |
|-------------------------------------|---|

### **SPECIFIC COMMENTS TO AUTHORS**

The content is innovative. In this study, prognostic features of colon cancer were determined based on copper toxicity and immune-related genes and verified by data set analysis. It was found that CDKN2A and DLAT related genes were closely related to colon cancer. The former was a risk factor and the latter was a protective factor, and the expressions of HSPA1A, CDKN2A and UCN3 were significantly different. In addition, the structure is clear, the logic is reasonable, simple to understand. But there's still some work to be done. 1. The DOI number does not appear in some references. In the past five years, there are few applications of literature and the overall real-time performance is not strong. 2. In this paper, the verification is mainly conducted through data sets, but there are limitations in the verification of actual experimental data.



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**Peer-review model:** Single blind

**Reviewer's code:** 04928215

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** China

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|                           |   |
|---------------------------|---|
| <b>Scientific quality</b> | <input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good<br><input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish            |
| <b>Language quality</b>   | <input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing<br><input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection |
| <b>Conclusion</b>         | <input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority)<br><input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection             |
| <b>Re-review</b>          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |



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|-------------------------------------|---|
| <b>Peer-reviewer<br/>statements</b> | Peer-Review: [ <input checked="" type="checkbox"/> ] Anonymous [ <input type="checkbox"/> ] Onymous<br>Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No |
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### **SPECIFIC COMMENTS TO AUTHORS**

In this manuscript the authors investigated the prognosis relationship between colon cancer, cuproptosis, and immune-related genes, showing that several genes combined with a worse prognosis and cuproptosis related with colon cancer prognosis. The manuscript, in order to be published, needs some modifications. Introduction -The authors refer to immune checkpoint therapy in colon cancer, it would be interesting to mention the trials currently in progress. In this regard, the authors could benefit from reading the following article, the contents of which could be useful for improving the manuscript: PMID: 34638281 DOI: 10.3390/cancers13194797 - The authors, at some point, describe copper and its regulation in cancer, this part should be introduced and it should be explained how it is related to the cuproptosis, to clarify the reason for the study. Materials and methods - There is a typo in the title. Discussion - The authors should discuss the results in the same order as they are presented in the text, i.e. first talk about CDKN2A and HSPA1A and then about UCN3. References - The bibliography needs to be updated. Some relevant papers missing, including: • PMID: 35965536 DOI: 10.3389/fonc.2022.961213 • PMID: 36313449 DOI: 10.3389/fgene.2022.928105 - Figure 1 is not mentioned in the text, it should be inserted in Materials and methods section. - Table 1 is not mentioned in the text, it should be inserted in Materials and methods section.