

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 81704

Title: Mitophagy-related gene signature predicts prognosis, immune infiltration and chemotherapy response in colorectal cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05360098

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-11-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-20 12:45

Reviewer performed review: 2022-11-28 08:38

Review time: 7 Days and 19 Hours

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 Grade E: Do not publish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

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

SPECIFIC COMMENTS TO AUTHORS

This novel predictive model developed in this article is of interest in the field of clinical cancer research, which probably can be clinically applicable in the future. Generally, I believe the results can help clinicians further understand the prognostic role of mitophagy-related genes in CRC and that could be relevant and valuable in a clinical setting. However, there are some minor questions that the authors should address before publication: 1. The predictive tool showed outstanding performance in predicting prognosis of CRC patients. I want to know whether this tool can be applied to predict the therapeutic response of immunotherapy in these patients? 2. The 95%CI of AUC calculated in this study should be provided. 3. Though the result was vividly visualized in this manuscript, more detailed interpretations of how to read the nomogram should be made. 4. Language should be checked throughout the manuscript to avoid odd formulations

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Title: Mitophagy-related gene signature predicts prognosis, immune infiltration and chemotherapy response in colorectal cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06400385

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-11-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-24 04:02

Reviewer performed review: 2022-12-05 01:05

Review time: 10 Days and 21 Hours

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

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

SPECIFIC COMMENTS TO AUTHORS

The authors aimed to develop a mitophagy-related gene signature to predict the survival, immune infiltration, and chemotherapy response of CRC patients. There are, however, a number of problems with this study. 1. In recent studies, there have been reports that autophagy genes are associated with colorectal cancer. What are the advantages and differences between your research and theirs? 2. Why did the authors not use the TCGA database for analysis since their research focuses on tumors? 3. In addition to the training set and validation set, the authors should add at least one more cohort for the validation set. 4. A detailed description of the version of the R package should be provided. 5. There are 36 genes in the signature, but they may be too many, making it difficult to use in clinical practice. 6. The authors wrote in Figure 1D that the three clusters are clearly separated, but the 1D figure does not show them. Additionally, there is no obvious connection between Cluster III and early stage in the Fig.1F. 7. It is recommended that authors revise and polish their writing.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Gastrointestinal Oncology*

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Position: Peer Reviewer

Academic degree: MD

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Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-11-20

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-01-03 14:29

Reviewer performed review: 2023-01-04 12:39

Review time: 22 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

1. The final screened genes should be marked in Figure S1A. 2. The authors have noticed the problem with the PCA graph in Figure 1D, but they have not changed the previous issue (Can the PCA graph in Figure 1D clearly distinguish the 3 clusters? 3. The title of each part of the results should be improved.