PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 83661

Title: Interaction mechanisms between autophagy and ferroptosis: Potential role in colorectal cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 04410177

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor, Senior Statistician, Statistical Worker, Statistician

Reviewer’s Country/Territory: Taiwan

Author’s Country/Territory: China

Manuscript submission date: 2023-02-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-02-12 03:55

Reviewer performed review: 2023-02-21 14:07

Review time: 9 Days and 10 Hours

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<th>Scientific quality</th>
<th>[ ] Grade A: Excellent</th>
<th>[ ] Grade B: Very good</th>
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<th>Novelty of this manuscript</th>
<th>[ ] Grade A: Excellent</th>
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SPECIFIC COMMENTS TO AUTHORS
Comments to the Author In this paper, the authors aimed to summary the mechanisms of autophagy and ferroptosis, as well as their roles in CRC by literature review. This study is some interesting and the results may be useful. However, some critical concerns should be addressed before publish.  1- I suggested the authors should register this review to PROSPERO.  2- The quality of prisma flow chart is lacked. Besides, I suggested the authors should add some published article for this meta-analysis if necessary.  3- Where is the mechanism plot described in manuscript based on its assumed pathogenesis? This concern needs to be addressed.  4- To my knowledge, discussion should updated solution or treatment for this issue. Could the authors conduct related treatment comparison for traditional therapy associated with Colorectal Cancer?  5- There are some grammatical errors in this paper. Generally, this work may be not suitable for publication until major concerns to be addressed in World Journal of Gastrointestinal Oncology.  6- Literature limitations should be added.
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Title: Interaction mechanisms between autophagy and ferroptosis: Potential role in colorectal cancer
Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed
Peer-review model: Single blind
Reviewer’s code: 05116713
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer’s Country/Territory: United States
Author’s Country/Territory: China
Manuscript submission date: 2023-02-03
Reviewer chosen by: Geng-Long Liu
Reviewer accepted review: 2023-03-06 10:16
Reviewer performed review: 2023-03-06 10:20
Review time: 1 Hour

Scientific quality

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SPECIFIC COMMENTS TO AUTHORS
This is a review article, so there is no need to comment on methodology or other issues of relevance to research articles. This is a reasonably comprehensive review on a topic that has heretofore received little attention in the CRC research field. I have learned some things. The writing is satisfactory. The references are complete and the figures and tables are acceptable. Therefore - accept.
PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

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Title: Interaction mechanisms between autophagy and ferroptosis: Potential role in colorectal cancer

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 06411442

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer’s Country/Territory: China

Author’s Country/Territory: China

Manuscript submission date: 2023-02-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-05 01:12

Reviewer performed review: 2023-03-09 10:45

Review time: 4 Days and 9 Hours

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SPECIFIC COMMENTS TO AUTHORS

This is a good review that covers the mechanisms of autophagy and ferroptosis, and focuses on their roles in CRC. I only have several minor concerns: (1) “relevant studies has indicated significant crosstalk between autophagy and ferroptosis”. The “has” should be “have”. (2) In the section of “Other potential pathways”, I suggest add brief description about the specific autophagy receptor HPCAL1 in ferroptosis. (3) In the section of “CONCLUSION AND PERSPECTIVE”, I suggest add brief description about clinical translation of ferroptosis in cancer treatment.
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Title: Interaction mechanisms between autophagy and ferroptosis: Potential role in colorectal cancer
Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed
Peer-review model: Single blind
Reviewer’s code: 00503405
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Senior Lecturer, Senior Scientist
Reviewer’s Country/Territory: Hungary
Author’s Country/Territory: China
Manuscript submission date: 2023-02-03
Reviewer chosen by: Geng-Long Liu
Reviewer accepted review: 2023-03-05 13:04
Reviewer performed review: 2023-03-09 18:51
Review time: 4 Days and 5 Hours

| Scientific quality          | [ ] Grade A: Excellent | [ ] Grade B: Very good | [ Y] Grade C: Good |
|                            | [ ] Grade D: Fair      | [ ] Grade E: Do not publish |
| Novelty of this manuscript | [ ] Grade A: Excellent | [ Y] Grade B: Good      | [ ] Grade C: Fair |
|                            | [ ] Grade D: No novelty |
| Creativity or innovation of this manuscript | [ ] Grade A: Excellent | [ ] Grade B: Good | [ Y] Grade C: Fair |
|                            | [ ] Grade D: No creativity or innovation |
SPECIFIC COMMENTS TO AUTHORs
The review article examines the role of autophagy and ferroptosis in CRC. The topic of the article is a very important and exciting one, with a lot of potential. The article is basically fairly written; however, I would suggest changes in several aspects:  - CRC is not a single disease. It is not clear from the article how autophagy and ferroptosis are distinguished in sporadic or colitis-associated CRC.  - It is possible to influence autophagy, and there is experimental evidence that this alters the phenotype of CRC cells. In any case, I think it is justified to add to the article how it is possible to influence the process of autophagy (e.g., by TLR signaling), how this influences ferroptosis, and whether this has an effect on cancer cell survival, division, and the emergence of the stem cell phenotype. It would also be useful to develop a figure highlighting the interactions of autophagy and ferroptosis in cancer cells.
RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastrointestinal Oncology
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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed
Peer-review model: Single blind
Reviewer’s code: 00503405
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Senior Lecturer, Senior Scientist
Reviewer’s Country/Territory: Hungary
Author’s Country/Territory: China
Manuscript submission date: 2023-02-03
Reviewer chosen by: Jia-Ping Yan
Reviewer accepted review: 2023-03-31 13:21
Reviewer performed review: 2023-03-31 13:26
Review time: 1 Hour

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SPECIFIC COMMENTS TO AUTHORS
The manuscript has been revised according to the suggestion of all Reviewers. The manuscript is now acceptable for publication.