

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55007

Title: Molecular modulation of autophagy: New venture to target resistant cancer stem cells

Reviewer's code: 02523682

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Switzerland

Manuscript submission date: 2020-02-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-28 01:06

Reviewer performed review: 2020-03-13 15:47

Review time: 14 Days and 14 Hours

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | RE-REVIEW | PEER-REVIEWER STATEMENTS |
|--|---|--|------------------------------|---|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept (High priority) | <input type="checkbox"/> Yes | Peer-Review: |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> Accept (General priority) | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Anonymous |
| <input type="checkbox"/> Grade C: Good | | | | <input type="checkbox"/> Onymous |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade C: A great deal of language polishing | <input checked="" type="checkbox"/> Minor revision | | Peer-reviewer's expertise on the topic of the manuscript: |
| <input type="checkbox"/> Grade E: Do not publish | <input type="checkbox"/> Grade D: Rejection | <input type="checkbox"/> Major revision | | <input type="checkbox"/> Advanced |
| | | <input type="checkbox"/> Rejection | | <input checked="" type="checkbox"/> General |
| | | | | <input type="checkbox"/> No expertise |
| | | | | Conflicts-of-Interest: |

☐ Yes

☐ No

SPECIFIC COMMENTS TO AUTHORS

The manuscript described the divergent role of autophagy in cancer stem cells and cancer cells, and attempts to elucidate the molecular mechanisms involved in autophagy. This paper is benefit to understand the complex interactions of autophagy and cancer stem cells, and analyze the relationship between cancer therapy and the clinical outcome for these patients based on autophagy. Thus, this manuscript is interesting. Several suggestions should be addressed. Apoptosis and autopahgy are two different event and have different pathways. The authors should reduce the description of apoptosis. The grammar and spelling mistakes often occur in this manuscript, fox example may to my. The authors should correct and modify them seriously. In the part " TARGETING CANCER CELLS AND CSCS USING AUTOPHAGY MODULATORS", some studies demonstrated that oncolytic virus also inhibits cancer stem cell via autophagy (Biochem Biophys Res Commun. 2017 Sep 16;491(2):469-477). In addtion, the authors should disscuss the relationship of between autophagy and cancer immunotherapy expecially immune checkpoint inhibitors such as PD1, PDL1, CTLA4.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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☐ Duplicate publication

☐ Plagiarism

☐ Y No

BPG Search:

☐ The same title

☐ Duplicate publication

☐ Plagiarism

☐ Y No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55007

Title: Molecular modulation of autophagy: New venture to target resistant cancer stem cells

Reviewer's code: 03373368

Position: Editorial Board

Academic degree: PhD

Professional title: Research Associate

Reviewer's Country/Territory: Italy

Author's Country/Territory: Switzerland

Manuscript submission date: 2020-02-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-03-02 08:53

Reviewer performed review: 2020-03-21 08:43

Review time: 18 Days and 23 Hours

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | RE-REVIEW | PEER-REVIEWER STATEMENTS |
|--|---|---|------------------------------|---|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept (High priority) | <input type="checkbox"/> Yes | Peer-Review: |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input checked="" type="checkbox"/> Accept (General priority) | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Anonymous |
| <input type="checkbox"/> Grade C: Good | | | | <input type="checkbox"/> Onymous |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Minor revision | | Peer-reviewer's expertise on the topic of the manuscript: |
| <input type="checkbox"/> Grade E: Do not publish | <input type="checkbox"/> Grade D: Rejection | <input type="checkbox"/> Major revision | | <input type="checkbox"/> Advanced |
| | | <input type="checkbox"/> Rejection | | <input checked="" type="checkbox"/> General |
| | | | | <input type="checkbox"/> No expertise |
| | | | | Conflicts-of-Interest: |

☐ Yes

☐ No

SPECIFIC COMMENTS TO AUTHORS

I have read with great enthusiasm the manuscript of Mandhair HK et al. entitled "Molecular modulation of autophagy: new venture to target resistant cancer stem cells".

Comments: -Title: reflects the main subject of the MS -the Abstract reflects the work described in MS -Background informations are adequately reported -Methods and results : N/A -Discussion is accurate and reports a comprehensive review on the current knowledge in autophagy and his role in cancer and cancer stem cells -Figures are of good quality -Biostatistic: N/A -References: the authors cite the latest references on the subject - Quality of the MS: it is concise and well organized -Research methods: N/A -Ethics statement: N/A Minor revisions : the authors should amend a few grammar typos: Pag 4: "Signally" replaced with "signalling" Pag 4: mTOR (M is not "mechanistic" but "mammalian") Pag 6: "Blabbing" should be replaced with "blebbing" Pag 13: and in any other part of the MS: "Vinmentin" should be replaced with "Vimentin"

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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☐ Duplicate publication



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[] Plagiarism

[Y] No

BPG Search:

[] The same title

[] Duplicate publication

[] Plagiarism

[Y] No