

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 70085

Title: Downregulation of miRNA-21 and cancer stem cells after chemotherapy results in better outcome in breast cancer patients

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05469314

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Research Assistant Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2021-07-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-22 14:04

Reviewer performed review: 2021-07-23 13:53

Review time: 23 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 Grade E: Do not publish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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

This is a wonderful letter about cancer epigenetics. After learning the latest research of Mandhair HK et al., the authors made a brief introduction and present some personal opinions on autophagy, post-transcriptional regulation and cancer stem cells in cancer. They also showed an interesting result that miR-21 expression was declined after three cycles of chemotherapy in breast cancer. This letter may provide clues for further study on cancer epigenetics in the future. My main concern is regarding:

1. In abstract, it is mentioned "combination therapy with anti-miRNA21/mimic miRNA21 may prove beneficial for cancer management". Why might mimic miRNA21 also be used in cancer therapy? Please give a brief introduction of possible benefit of mimic miRNA2.
2. In the last paragraph, it is mentioned "the regulation in autophagy by modulating epigenetic milieu (Methylation, and non-coding RNA) transcriptional factors, and Cancer Stem Cells (CSCs) may help in providing better cancer management". Autophagy regulated by CSCs is not easy to understand, which can be supplemented in the previous paragraphs.