

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 64843

**Title:** Stem cell therapy: A paradigm shift in breast cancer treatment

**Reviewer's code:** 05258171

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-02-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-02-25 07:50

**Reviewer performed review:** 2021-02-25 08:12

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

The following needs to be addressed: (1) As a review article for stem cell therapy, it is necessary to focus on this background and concepts, as well as some specific contents and latest progress on this field. (2) This manuscript detailly lists some cellular pathways and findings, but you do not point out the relationship between future direction and clinical practice. (3) The readability of this paper is not strong enough. This article is too long, including lots of figures, and it is not easy to catch your highlights and main opinions.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 64843

**Title:** Stem cell therapy: A paradigm shift in breast cancer treatment

**Reviewer's code:** 05449007

**Position:** Peer Reviewer

**Academic degree:** MBBS, MD

**Professional title:** Academic Fellow, Doctor

**Reviewer's Country/Territory:** United States

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

**Manuscript submission date:** 2021-02-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-02-24 23:31

**Reviewer performed review:** 2021-02-25 20:29

**Review time:** 20 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Overall, the authors have done a commendable work in their manuscript, reviewing literature and pathogenesis/ tumorigenesis of breast cancer and various genetic pathways. They have also highlighted the role of stem cells in breast cancer and potential target for precision medicines. However, the manuscript is extremely lengthy (>9000 words) and has significant redundancy. It appears to be in a thesis format but needs to be converted into a review article, which appears to be the intention of the submission. Ideally, the goal should be 3500-4500 words for a review article as it highlights major points, does justice to the title of the manuscript and is a succinct review of current literature on the topic. It is also important to maintain interest for the readership. My recommendation is to significantly cut down on word count and sections that are not related to stem cells and only briefly touch upon other pathways. For example, micro RNA section can be significantly cut down to highlight major studies and their connection to stem cells rather than complete tumorigenesis. Similarly, CDKs, NF- $\kappa$ B in tumorigenesis, HER2 pathway, PI3K/Akt pathway and BRCA pathway need to be summarized only in a small paragraph and their role stem cell activation or regulation in breast cancer can be highlighted in a table format. Pathways regulating cancer stem cells is beautifully highlighted in the manuscript and need to be the focus of the review hence the need to cut down the abovementioned sections.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 64843

**Title:** Stem cell therapy: A paradigm shift in breast cancer treatment

**Reviewer's code:** 03477174

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2021-02-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-02-25 12:18

**Reviewer performed review:** 2021-03-02 07:24

**Review time:** 4 Days and 19 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input 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
<b>Peer-reviewer statements</b>	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 topic has been well compiled by the authors.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 64843

**Title:** Stem cell therapy: A paradigm shift in breast cancer treatment

**Reviewer's code:** 05258171

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2021-02-24

**Reviewer chosen by:** Chen-Chen Gao

**Reviewer accepted review:** 2021-05-09 02:37

**Reviewer performed review:** 2021-05-09 03:21

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	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

Overall, the quality of the manuscript has been greatly improved, particularly the length



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of the text. In addition, three-line table column setting should be scientific and standard.