

## PEER-REVIEW REPORT

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

**Manuscript NO:** 55698

**Title:** Brain tumors: Cancer stem-like cells interact with the microenvironment

**Reviewer's code:** 00505755

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Senior Research Fellow

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

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

**Manuscript submission date:** 2020-03-29

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-07-24 00:03

**Reviewer performed review:** 2020-07-27 08:20

**Review time:** 3 Days and 8 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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

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

This study demonstrates the importance of CSCs and microenvironment in brain cancer treatment. Introduction may be revised to explain more in detail how single-cell RNA sequence revealed the cancer and immune cell characterization. The organization of the sections may be revised to have different numbers for subsections. Figure 2 may be revised to be more suitable for the text citation.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 55698

**Title:** Brain tumors: Cancer stem-like cells interact with the microenvironment

**Reviewer's code:** 00467030

**Position:** Peer Reviewer

**Academic degree:** DDS, MSc

**Professional title:** Attending Doctor, Director, Full Professor

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

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

**Manuscript submission date:** 2020-03-29

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-08-26 01:41

**Reviewer performed review:** 2020-08-27 03:41

**Review time:** 1 Day and 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>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 authors present a well-written review article concerning interaction of cancer stem-like cells with the microenvironment. The following points are suggested for further consideration. 1. The authors emphasize the use of valuable scRNA-seq technology in the cancer research such as application in the brain tumor in the last sentence of the introduction. I would suggest the authors to consider to describe the issue (underlying concept) of scRNA-seq technology in more detail in a separate subsection first before subsequent description for its application (i.e. may be describe before the subsection 4. Glioma and medulloblastoma). 2. Is the word 'depictes' correct (the last line of p. 8)? Perhaps 'depicts' is more adequate. Another area of typo error (?): 'Chongsathidkiet'

## PEER-REVIEW REPORT

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

**Manuscript NO:** 55698

**Title:** Brain tumors: Cancer stem-like cells interact with the microenvironment

**Reviewer's code:** 00069423

**Position:** Editorial Board

**Academic degree:** FAASLD, MD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2020-03-29

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-08-26 03:24

**Reviewer performed review:** 2020-08-30 12:07

**Review time:** 4 Days and 8 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (High priority) <input 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



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## SPECIFIC COMMENTS TO AUTHORS

Please, see Attached

*Attached contents are as follows:*

August 30, 2020

Review for World Journal Cancer Stem cell. **Manuscript “Brain tumors: Cancer stem-like cells interact with the microenvironment”**

### General Comment.

Authors have conducted a remarkably comprehensive and in depth review on the area of the brain cancer stem-like cells interacting with the tumor cell microenvironment. Their knowledge and work for this manuscript is commendable.

Not only they currently carry out the investigations but also present several areas of future research for the improved management of the currently near fatal brain cancer.

### Minor comments

There are too many abbreviations.

This is an excellent educational paper. Healthcare workers and scientists in other field may read and learn a great deal.

There seems no need to abbreviate glioblastoma and medulloblastoma to GB and MB.

If used only a few times, please, write it out.

HSPGs (for haparan sulfate proteoglycans) and HA (for hyaluronic acid) appeared only once under **Matrix section**.

Or illustrate all the abbreviations on the front page. This will certainly help the readers

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

**Manuscript NO:** 55698

**Title:** Brain tumors: Cancer stem-like cells interact with the microenvironment

**Reviewer's code:** 00467030

**Position:** Peer Reviewer

**Academic degree:** DDS, MSc

**Professional title:** Attending Doctor, Director, Full Professor

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

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

**Manuscript submission date:** 2020-03-29

**Reviewer chosen by:** Xi-Fang Chen

**Reviewer accepted review:** 2020-10-08 06:04

**Reviewer performed review:** 2020-10-08 06:11

**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 checked="" type="checkbox"/> Accept (General priority) <input 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

The authors have dealt with the suggestions adequately after reading the revised



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