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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 74928

Title: Correlation between Amino Acid Metabolism and Self-renewal of Cancer Stem Cells: Perspectives in Cancer Therapy

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03763746
Position: Peer Reviewer
Academic degree: BSc, MA, MPhil, MSc, PhD
Professional title: Research Scientist
Reviewer's Country/Territory: Pakistan
Author's Country/Territory: China

Manuscript submission date: 2022-01-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-18 04:40

Reviewer performed review: 2022-01-24 04:05

Review time: 5 Days and 23 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

none

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Reviewer's code: 03372822
Position: Editorial Board
Academic degree: PhD
Professional title: Reader (Associate Professor)
Reviewer's Country/Territory: Portugal
Author's Country/Territory: China

Manuscript submission date: 2022-01-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-18 08:45

Reviewer performed review: 2022-01-24 23:17

Review time: 6 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [Y] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors made an extensive review about amino acids metabolism and cancer stem cells. Although the manuscript is well written, it becomes very exhaustive and turns into a long list of amino acids and their correlation with some embryonic stem cells, cancer stem cells and tumor properties. No real perspective into novel therapeutic approaches is presented in the manuscript (thus the title does not really reflect the content of the manuscript), and other published articles have described similar data. There are inaccuracies about certain terms, such as the first sentence of the introduction which states: "Stem cells are pluripotent cells with...". However, most of stem cells are not pluripotent. Pluripotency characterizes embryonic (carcinoma) stem cells and iPSC, mostly. In my opinion, the manuscript does present enough originality to be published in its actual state.