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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 77481

Title: LncRNA SNHG16 promotes human placenta-derived mesenchymal stem cell proliferation capacity through the PI3K/AKT pathway under hypoxia

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04638072
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-05-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-03 08:48

Reviewer performed review: 2022-05-08 15:59

Review time: 5 Days and 7 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] 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 studied the role of lncRNA in regulating of hypoxia on hP-MSCs. Hypoxia lead to activation of AKT pathway. The author should demonstrate that whether SNHG16 alter the activation of AKT in response to hypoxia. lncRNA have several mechanisms to regulate gene expression. The authors should make clear or discuss how SNHG16 regulate AKT pathway.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06272301
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-05-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-02 17:52

Reviewer performed review: 2022-05-09 09:06

Review time: 6 Days and 15 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [Y] 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

In this manuscript, the authors described that LncRNA SNHG16 promotes human placental-derived mesenchymal stem cells proliferation capacity through PI3K/AKT pathway under hypoxia. I suggest accepting this manuscript after authors address the following concerns. 1. In Figure 1A&E, WB images were poor quality, so I suggest supplementing immunofluorescence staining for evidence. 2. In Figure 1D, I suggest repeating the experiment with a better quality diagram. 3. In Figure 4F, RNA FISH should be supplemented to provide the spatial location of lncRNA SNHG16. 4. Please explain why the results of control groups do not match in Figure 5C and Figure 4A. 5. The title contains a word "under hypoxia". In Figure 5, why the normal and hypoxia groups were not set after SNHG16 was knocked down. The proliferation phenotypes should be further confirmed by WB, IF and colony formation. In addition, the expression of SNHG16 should be restored after knockdown to confirm whether the phenotype is consistent. 6. In Figure 6, WB images were poor quality in CDK6 and Cyclin E1, so I suggest repeating them and adding immunofluorescence or ELISA evidence, as well as detecting the related RNA level of this pathway. 7. Both MYC and PI3K/AKT pathways can promote cell proliferation. Please explain why the MYC pathway was not detected later.

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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 77481

Title: LncRNA SNHG16 promotes human placenta-derived mesenchymal stem cell proliferation capacity through the PI3K/AKT pathway under hypoxia

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05817547
Position: Peer Reviewer
Academic degree: PhD
Professional title: Postdoctoral Fellow
Reviewer's Country/Territory: Iran
Author's Country/Territory: China

Manuscript submission date: 2022-05-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-02 15:49

Reviewer performed review: 2022-05-10 20:09

Review time: 8 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] 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 [Y] 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

In this manuscript, the authors have reported LncRNA SNHG16 promotes human placental-derived mesenchymal stem cells proliferation capacity through PI3K/AKT pathway under hypoxia. This manuscript suffers from several drawbacks in technical execution and data presentation, and, in my opinion, this manuscript in its current shape needs major revision. The main issues are as follows: 1-The manuscript must be carefully proofread for grammar, spelling, and punctuation issues. 2- The statements of this paper need improvement. The discussion part is not well written and needs a major rewrite. There is no balance between the different sections of the manuscript. The content of the introduction and results were too long. 3- For P-value, please write the exact value. 4- The method section was not well described and needed to be rewritten in more detail, such as the method of cell culture, cell transfection, etc. 5- The results of Primer Blast for gene SNHG16 primers showed a large number of nonspecific targets and no binding to the main target, which needs further investigation. 6- It is recommended to mention the statistical analysis results of cell cycle comparisons.

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 77481

Title: LncRNA SNHG16 promotes human placenta-derived mesenchymal stem cell proliferation capacity through the PI3K/AKT pathway under hypoxia

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05817547

Position: Peer Reviewer

Academic degree: PhD

Professional title: Postdoctoral Fellow

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

Manuscript submission date: 2022-05-02

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2022-07-09 10:29

Reviewer performed review: 2022-07-09 10:55

Review time: 1 Hour

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	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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statements	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript, the authors have evaluated "LncRNA SNHG16 promotes human placenta-derived mesenchymal stem cell proliferation capacity through the PI3K/AKT pathway under hypoxia". Overall, this manuscript provides valuable and valid data. I do not see any major issues in this manuscript.