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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 48245

Title: Generation of induced secretome from adipose-derived stem cells specialized for disease-specific treatment: an experimental mouse model

Reviewer's code: 03472014

Reviewer's country: Malaysia

Science editor: Ying Dou

Reviewer accepted review: 2019-04-16 04:18

Reviewer performed review: 2019-05-06 01:45

Review time: 19 Days and 21 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection	Peer-Review: [Y] Anonymous [ ] Onymous Peer-reviewer's expertise on the topic of the manuscript: [Y] Advanced [ ] General [ ] No expertise Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The present manuscript, authored by Kim et al., attempts to provide a novel experimental approach in developing specialised cell-free based therapeutics for treating a specific disease. A systematic experimental design of this work is essentially the

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strength of this study and support the conclusion. Very well done to the team in bringing an impact and specialised therapeutics development approach for future medicine. This approach is expected to open a new way of developing various specific therapeutics by harnessing MSC unique characteristics; plasticity and paracrine effects in aiding tissue repair and healing.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

[ ] The same title

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[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 48245

Title: Generation of induced secretome from adipose-derived stem cells specialized for disease-specific treatment: an experimental mouse model

Reviewer's code: 00004699

Reviewer's country: Japan

Science editor: Ying Dou

Reviewer accepted review: 2019-04-14 23:14

Reviewer performed review: 2019-05-08 04:05

Review time: 23 Days and 4 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection	Peer-Review: [Y] Anonymous [ ] Onymous Peer-reviewer's expertise on the topic of the manuscript: [ ] Advanced [Y] General [ ] No expertise Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Kim O-H et al. observed the higher therapeutic potentials of TAA-induced secretome (isecretome) from adipose-derived cells. TAA-isecretome treatment in vivo mice model showed the recovering of the damaged hepatocyte by TAA treatment. This study is well

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organized and interesting, and further give us the possibility of isecretome therapy as a disease specific approach. Although secretome analysis was performed by LS-MAS in this study, interpretation of the data of the contents of isecretome is insufficient in the present version. Comments: 1) Many scientists want to know what are the essential protein/gene/enzymes in secretome from adipose-derived stem cells, and which factors detected by LS-MAS reflect inflammation, differentiation, proliferation and apoptosis. Thus, explanation and interpretation of data on secretome analysis is limited. More detail explanation and discussion of the data (Fig 6B) should be required. 2) In addition to comment 1, it is still unknown the molecular mechanism of pro-proliferative and antioxidant actions of TAA-isecretome in mouse model of TAA-induced hepatic failure (Fig.4). Molecular mechanism/pathway of them by TAA-iCM infusion should be explained. 3) Although 0.1mM TAA was appropriate concentration of TAA (page 11, lines 6-7 and Figure 1B-1C), figure legend of it (page 25, lines 3-5) indicated 0.25mM. Please check it.

INITIAL REVIEW OF THE MANUSCRIPT

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[Y] No