

JOURNAL EDITOR-IN-CHIEF'S REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 82702

Title: Human pluripotent stem cell-derived extracellular vesicles: From now to the future

Journal Editor-in-Chief (Associate Editor): Shengwen Calvin Li

Country/Territory: United States

Editorial Director: Jia-Ping Yan

Date accepted review: 2023-04-07 06:39

Date reviewed: 2023-04-07 06:40

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> [Y] Accept
<input type="checkbox"/> [Y] Grade B: Very good	<input type="checkbox"/> [Y] Grade B: Minor language polishing	<input type="checkbox"/> [] High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of	<input type="checkbox"/> [] Rejection
<input type="checkbox"/> Grade D: Fair	language polishing	<input type="checkbox"/> [] Minor revision
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> [] Major revision

JOURNAL EDITOR-IN-CHIEF (ASSOCIATE EDITOR) COMMENTS TO AUTHORS

EIC Specific comments: Manuscript NO: 82702 1) Pages 5-6: "It was shown that the hiPSC-derived EVs (hiPSC-EV) contains a variety of microRNAs (miRNAs) (such as miR-382, miR-611, and others) related to pathways such as focal adhesion, Wnt, PI3K-Akt, and MAPK signaling, as well as proteins related to processes involved in signal transduction." [use contain, not contains]. 2) Page 8: "It was also demonstrated that MVs, but not EXOs, retrodifferentiated Müller cells into retinal progenitor cells in vitro[71]." It is infrequent to see "retrodifferentiated Müller cells." Thus, the authors need to elaborate on the definition of the term. 3) Page 12: "The advantages of PSC-EVs could be related to a higher level of EV production since the cells have the greater proliferative capacity, along with the fact that we can isolate EVs from a single source, possibly reducing the variability between batches." Neither PSCs nor PSC-EVs are homogeneous in production but heterogenous, implying neither contents are consistent. Revise the statement to reflect on the heterogeneity of both PSCs and



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PSC-EVs.