



PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

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Title: Potential of transposon-mediated cellular reprogramming towards cell-based therapies

Reviewer's code: 02934109

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: India

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Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2020-04-01 03:42

Reviewer performed review: 2020-04-02 12:38

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Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" 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 Grade E: Do not publish
Language quality	<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
Conclusion	<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
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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 difficulties in the clinical application of ipscs mainly lie in their low differentiation efficiency and low success rate of transplantation. The ipscs approach, whether using compounds, retrovirus vectors, or transposons, is also important but does not have much clinical significance in this regard. However, transposons also play an important role in this field because they eventually gives rise to 'transgene-free' iPS cells. The author also summarizes a lot of articles and clinical applications of transposons, and summarizes the disadvantages of transposons. Hopefully there will be better technology in the future.