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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55084

Title: Stem cell-based approaches: Possible route to hearing restoration?

Reviewer's code: 03712811
Position: Editor-in-Chief
Academic degree: MD, PhD

Professional title: Director, Full Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Spain

Manuscript submission date: 2020-02-29

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2020-03-07 17:46

Reviewer performed review: 2020-03-15 20:30

Review time: 8 Days and 2 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Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

In this review article, The Author aims at summarizing the research efforts that has been pursued within the context of cell-based strategies potentially leading to sensory cell replacement in the adult cochlea. This is an interesting review study, providing the Readers with a thoroughly updated viewpoint on a matter that is no-doubt of highly relevant biological, clinical and social impact. The various sections of the paper are well presented and interconnected among each other. The "Conclusions" section is further refining the overall presentation, and it is in keeping with the presented evidence. My only observation regards the lack of one or two graphical schemes guiding the Readers, especially the ones who are not directly involved in this specific field, to understand the major efforts/strategies, and their successful outcome, as well as the related drawback and the unmet target solution. I also believe that some figure should also be added to further highlight the major issues stressed by this review.