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Name of Journal: *World Journal of Stem Cells*

ESPS Manuscript NO: 23211

Manuscript Type: Review

Reviewing: 1

Comments to the Author

The authors tried to overview the literatures discussing the current status of the different stem cell types in cell-based therapy for disc regeneration. The overall structure of this manuscript is well-organized and easy to understand. The various types of stem cells were detailedly described how to regenerate disc from each references.

While introducing disc regeneration from each stem cell types, a conclusion for how the differences of their therapeutic efficacies among these stem cells should be given. The advantages and disadvantages about their treatments are recommended to be discussed.

THANK YOU FOR YOUR COMMENTS AND SUGGESTIONS THAT WILL SIGNIFICANTLY IMPROVE OUR MANUSCRIPT: WE HAVE ADDED, AT THE END OF EACH PARAGRAPH CONCERNING SINGLE STEM CELL TYPES, A CONCLUSION ON ADVANTAGES AND DISADVANTAGES ON EACH CYTOTYPE.

In p.28, what's the difference of "DISC STEM CELLS" from disc progenitors?

IN ORDER TO AVOID MISUNDERSTANDINGS, WE HAVE REORGANISED THE STRUCTURE OF THE "DISC STEM CELLS" PARAGRAPH WITHOUT THE USE OF ADDITIONAL SYNONYMS AS SUGGESTED.

Reviewing: 2

Comments to the Author

This review is well written and summarizes well the current literature on stem cell approaches to regenerate the intervertebral disc. The English language is fine. The table 1 is fine. Possibly an overview picture summarizing the different stem cell approaches would be of value for the reader to get a quicker grasp of what is going on in the field.

WE HAVE ADDED TWO FIGURES THAT SUMMARIZE STEM CELLS SOURCES AND STEM CELL-BASED THERAPY DIFFERENT APPROACHES RESPECTIVELY.

page 30 last line, define H&E staining. page 33 line 4 correct thermoversible to thermoreversible. page 33 line 6: throughout the MS, write out numbers until twelve and use number >13.

THE TEXT HAS BEEN CORRECTED ACCORDINGLY.

Additional minor changes have been made and highlighted as recommended by the reviewers using the "Track Changes" function.