

Format for ANSWERING REVIEWERS

September 14, 2014

Dear Editor,



Please find enclosed the edited manuscript in Word format

Title: Current Progress In Use Of Adipose Derived Stem Cells (ADSCs) In Peripheral Nerve Regeneration

Author: Shomari Zack-Williams, Peter E Butler, Deepak M Kalaskar

Name of Journal: *World Journal of Stem Cells*

ESPS Manuscript NO: 12881

The manuscript has been improved according to the suggestions of the reviewers.

Response to Reviewer 1

We would like to thank the reviewer for accepting our work in its original format. No alterations were made following reviewers input.

Response to Reviewer 2

Would like to see some expansion on culture and delivery methods, potential pitfalls and areas of future needed study added

Firstly, we would like to thank the reviewer for identifying an area where our paper required more in depth information. We placed more details specifically in the areas of cell culture, different modes of delivery as well as potential pitfalls. We have addressed above comments by the reviewer and highlighted in the text in revised manuscript

Answer to reviewer comments:

- We have provided more information on isolation and culturing of ADSCs on pages 7-8 of the review article.
- More information has been provided for the different methods of ADSC delivery on pages 13-14.
- Potential pitfalls and areas of future study are mentioned further in the discussion and conclusion sections on pages 17-20.

Response to Reviewer 3

We would like to thank the reviewer for their comments and suggestions to improve our work. We have addressed following comments by the reviewer and highlighted in the text in revised manuscript

Question 1. The peripheral nervous system (PNS) consists of nerve tissue distal to the Central Nervous System (CNS).

Answer to reviewer:

This sentence on page 4 has been deleted

Question 2. Figure 2. Sunderland and Seddon classification of nerve injury reproduced from Deumens et al 2010. [9] (Page 30).

Answer to reviewer:

This figure has been modified and has been placed in a separate file along with the other images and permission has been granted to use this image from Elsevier.

Questions 3. ADSCs can activate and increase various neuron markers. The authors should shortly discuss about the appearance and function about these phenomena and if ADSCs can influence these markers at similar level or time.

Answer to reviewer:

On page 11 there is a specific mention of markers and the theories behind the relevance of these markers in neural differentiation of ADSCs.

Question 4. ADSCs can enhance several neuronal markers. The authors should mention about if ADSCs can restore the function of PNS neurons.

Answer to reviewer:

On pages 17-19 in the discussion, the evidence for ADSCs and their action within the peripheral nervous system is answered. The authors come to a conclusion regarding how they feel ADSCs interact with the damaged peripheral neuron based on the evidence in the literature.

Question 5. I wonder and suggest if the authors have the permit from original authors or publishers when using their figures. I suggest that the authors can re-draw it by themselves.

Answer to reviewer :

Permissions have been gained for the figures which have been reproduced directly from the relevant journals.

Response To Reviewer 4

We would again like to thank the reviewer for their comments and have attached evidence of addressing the previous reviewer's recommendations.

Suggestions: Running Title

Answer: ADSCs Regenerating Peripheral Nerve Regeneration (Page 1)

Suggestions: Please offer reference 96

Answer: Reference list updated to fit with the text with 100 references instead of 101 and reference 96 correctly cited and referenced

Suggestions: Please mark the location of figure 5 within the text

Answer: Figure 5 now listed within the text on page 9

Suggestions: Please offer figure 8 and mark the location of figure 8 in the text

Answer: Figure 8 is mentioned within the text on page 17 and is located on page 33

Suggestions: Please mark the position of table 4 in the text

Answer: Table 4 is mentioned on page 12 of the review article text