

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12881

Title: Current Progress In Use Of Adipose Derived Stem Cells (ADSCs) In Peripheral Nerve Regeneration (Invited Title Ref : 02932099)

Reviewer code: 00505705

Science editor: Fang-Fang Ji

Date sent for review: 2014-07-29 17:47

Date reviewed: 2014-08-01 03:50

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Authors reviewed the progress in the use of adipose derived stem cells (ADSC) in human peripheral nerve injury. There are a lot of research interests in the area of ADSC differentiation because of its potential clinical applications. The review is well written and evidence is carefully presented.

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12881

Title: Current Progress In Use Of Adipose Derived Stem Cells (ADSCs) In Peripheral Nerve Regeneration (Invited Title Ref : 02932099)

Reviewer code: 02488500

Science editor: Fang-Fang Ji

Date sent for review: 2014-07-29 17:47

Date reviewed: 2014-08-02 01:38

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

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

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12881

Title: Current Progress In Use Of Adipose Derived Stem Cells (ADSCs) In Peripheral Nerve Regeneration (Invited Title Ref : 02932099)

Reviewer code: 02488986

Science editor: Fang-Fang Ji

Date sent for review: 2014-07-29 17:47

Date reviewed: 2014-08-05 16:51

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The authors reviewed many articles and concluded that adipose derived stem cells (ADSCs) are potential to have neurotrophic properties and the ability to differentiate into multiple lineages. The ADSCs are ubiquitous within adipose tissue which can form many structures resembling the mature adult peripheral nervous system. The ADSCs can have neuroprotective and regenerative properties in several animal studies and need for further study in human peripheral nerve injury (PNI). The current review provides a good and detail overview of ADSCs in PNI repair. The manuscript is well-written and well-documented. However, there are few issues that need to be addressed. 1. The peripheral nervous system (PNS) consists of nerve tissue distal to the Central Nervous System (CNS). (Page 4) 2. Figure 2. Sunderland and Seddon classification of nerve injury reproduced from Deumens et al 2010. [9] (Page 30) 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. 4. ADSCs can enhance several neuronal markers. The authors should mention about if ADSCs can restore the function of PNS neurons. 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.