

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 53364

**Title:** Human Umbilical Cord Derived Mesenchymal Stem Cells in Peripheral Nerve Regeneration

**Reviewer's code:** 03810998

**Position:** Editorial Board

**Academic degree:** BSc, MPhil, PhD

**Professional title:** Associate Professor

**Reviewer's country:** China

**Author's country:** United Kingdom

**Manuscript submission date:** 2019-12-16

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2019-12-17 03:52

**Reviewer performed review:** 2019-12-24 05:59

**Review time:** 7 Days and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
**https://**www.wjgnet.com

#### **SPECIFIC COMMENTS TO AUTHORS**

This is a very well-written and nice review paper to summarise the use of human UCMSCs for the treatment of peripheral nerve lesions. It is acceptable to be published in this journal.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☒ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☒ No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 53364

**Title:** Human Umbilical Cord Derived Mesenchymal Stem Cells in Peripheral Nerve Regeneration

**Reviewer's code:** 02446277

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Research Assistant Professor, Senior Scientist

**Reviewer's country:** Romania

**Author's country:** United Kingdom

**Manuscript submission date:** 2019-12-16

**Reviewer chosen by:** Ruo-Yu Ma

**Reviewer accepted review:** 2020-02-06 10:45

**Reviewer performed review:** 2020-02-12 11:25

**Review time:** 6 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

## **SPECIFIC COMMENTS TO AUTHORS**

The authors performed a systematic review that supports the notion that umbilical cord blood mesenchymal stem cells (UCMSC) transplantation is an effective treatment option for peripheral nerve injury. They summarized several UCMSC implantation methods involving or not the use of a scaffold or some robber or collagen conduits, presenting for each study the obtained results. Further, the authors discussed the advantage of the use of UCMSCs as a source of stem cells and addressed to mechanisms through which these cells act to promote nerve regeneration. This is a very useful and informative study. The results are well presented and interesting. However, the abstract should be reorganized as is it not clear that the 14 selected studies (279 subjects) imply both human patients and animal models. Moreover, it is specified that 10 transplants were xenogeneic. However, from Table I and Table 2 it seems that 13 studies referred to xenogeneic transplants. I think this part should be better explained. Unclear phrase: "Four studies obtained UCMSCs from a third-party source and the remainder were harvested directly from human subjects." How can some UCB samples be obtained "directly from human subjects" and other to be obtained from "a third-party source"?

## **INITIAL REVIEW OF THE MANUSCRIPT**

### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

### ***BPG Search:***



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
**<https://www.wjgnet.com>**

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 53364

**Title:** Human umbilical cord derived mesenchymal stem cells in peripheral nerve regeneration

**Reviewer's code:** 03810998

**Position:** Editorial Board

**Academic degree:** BSc, MPhil, PhD

**Professional title:** Associate Professor

**Reviewer's country:** China

**Author's country:** United Kingdom

**Manuscript submission date:** 2019-12-16

**Reviewer chosen by:** Yu-Qiao Wang

**Reviewer accepted review:** 2020-03-16 13:04

**Reviewer performed review:** 2020-03-17 02:38

**Review time:** 13 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
<https://www.wjgnet.com>

#### **SPECIFIC COMMENTS TO AUTHORS**

The manuscript is ready for publication.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No