

## PEER-REVIEW REPORT

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

**Manuscript NO:** 46891

**Title:** Mechano-response of stem cells for vascular repair

**Reviewer's code:** 03814168

**Reviewer's country:** Pakistan

**Science editor:** Ying Dou

**Reviewer accepted review:** 2019-05-21 08:14

**Reviewer performed review:** 2019-05-31 06:54

**Review time:** 9 Days and 22 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input 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 checked="" 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

This review article is based on review of very important topic address the processes involved in blood vessels formation. The efforts from the authors are well appreciated; however there are some limitations in this manuscript. In the section Biomechanical stress for vascular injury and repair Name the receptors of ECs which are responsible for



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mechanical signal transduction. Similarly author mentioned about mechanosensors but didn't specified these, it is recommended to include the name and role of each sensor. In figure 1, paracrine factors are mentioned, It will be better to add the name of paracrine factors which responsible angiogenesis, also can add factors which attract stem cells at the site of injury. In the section The response of stem cells to strain stress, The first two paragraphs are irrelevant to vascular injury. It will be better to replace them with relevant materials. The final summary of the review is very board, it is recommended to focus only on the mechanical factors responsible for the vascular regeneration. Typo and grammatical mistake need to be removed.

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

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

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

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

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- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

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

**Manuscript NO:** 46891

**Title:** Mechano-response of stem cells for vascular repair

**Reviewer's code:** 03468222

**Reviewer's country:** Turkey

**Science editor:** Ying Dou

**Reviewer accepted review:** 2019-05-27 09:17

**Reviewer performed review:** 2019-06-14 22:47

**Review time:** 18 Days and 13 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input 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 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 type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Comments to Authors and Editor: This review article focuses mainly on the studies have shown the promising role of stem cells in vascular repair using in vitro and in vivo experimental settings were compiled (between 1999 and 2019). Approximately 19 review papers (best match 7) have been published about this subject area



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(<https://www.ncbi.nlm.nih.gov/pubmed/?term=mechanical+forces+stem+cells+vascular>). The most recent of these was published in 2017. The review article provides a comprehensive overview of recent advances about the effect of mechanical forces on vascular regeneration by stem cells and has a good bibliography (with external reference linking if possible). The review paper provides a balanced view of recent studies in the subject area and makes a valuable contribution to this field. The review manuscript cites appropriately important references and is coherently organized and systematically presented. The diagrams are appropriately illustrative of the paper contents. I hereby declare, on behalf of myself, that I accept this review manuscript can be published in World Journal of Stem Cells. PROOFS: The following proofs are made by adding the page and line numbers to "46891-Manuscript File.docx" file. Page 12, line 10 "....stabilise", should be changed as ".... stabilise". Page 14, line 7 "....nelucear", should be changed as ".... nuclear". Page 20, line 5 "....signaling", should be changed as "....signalling". Dr. Ayla EKER SARIBOYACI

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

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

- ☐ The same title
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##### ***BPG Search:***

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[ Y ] No