

## PEER-REVIEW REPORT

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

**Manuscript NO:** 46336

**Title:** Physical energies to the rescue of damaged tissues

**Reviewer's code:** 02151660

**Reviewer's country:** United States

**Science editor:** Ying Dou

**Reviewer accepted review:** 2019-02-27 21:51

**Reviewer performed review:** 2019-02-27 23:01

**Review time:** 1 Hour

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 checked="" 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 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 manuscript by Facchin and colleagues is a detailed review of various physical energies and how they regulate biological processes. The authors extrapolate there findings to focus on how different physical forces may be of use in regenerative medicine. The evidence supporting the use of these technologies in regenerative



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medicine is the weakest part of the manuscript. Overall, this is a fascinating review of an area that needs far more attention than is currently afforded in the biological sciences. The large number of studies that the authors have pulled together that support the role of mechanical forces, electric fields, electromagnetic fields, electromagnetic radiation and photobiomodulation in regulating biological processes has reached the point where traditional biologists can no longer ignore the importance of these signals in translating their research findings. It is hoped that this review will prompt further research into these intriguing areas.

#### **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:** 46336

**Title:** Physical energies to the rescue of damaged tissues

**Reviewer's code:** 01206707

**Reviewer's country:** South Korea

**Science editor:** Ying Dou

**Reviewer accepted review:** 2019-02-27 20:26

**Reviewer performed review:** 2019-03-08 08:10

**Review time:** 8 Days and 11 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" 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

Dear Authors, The reviewer would like to thank the authors for the interesting topic. The manuscript is relatively well prepared. However, it may be easily reader for the readers. Addition of several images regarding the data with tables may improve the quality of the manuscript. Thank you very much.



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- ☐ Plagiarism
- ☐ No