



**Baishideng  
Publishing  
Group**

7901 Stoneridge Drive, Suite 501,  
Pleasanton, CA 94588, USA  
**Telephone:** +1-925-223-8242  
**Fax:** +1-925-223-8243  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
<https://www.wjgnet.com>

## PEER-REVIEW REPORT

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

**Manuscript NO:** 42912

**Title:** Triple-modal imaging for stem-cell labeled with multimodal nanoparticles, applied in stroke model

**Reviewer's code:** 02728252

**Reviewer's country:** Egypt

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-10-23

**Date reviewed:** 2018-10-27

**Review time:** 4 Days

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 checked="" type="checkbox"/> Grade B: Very good	<input checked="" 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 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

It is a comprehensive basic study with two arms, in vitro and in vivo. The authors aimed to determine the sensitivity of triple-modal imaging of stem-cells labeled with multimodal nanoparticles in vitro and to confirm their results with in vivo stroke model.

They highlighted the importance of quantification of multimodal nanoparticles internalized into cells and their efficacy in signal detection for the triple image modality in stroke model. Despite the great efforts that were done, the abstract and the introduction sections were poorly written and should be checked by Language Service Company to improve the manuscript and to be of high quality. The methodological section is well designed and sound. In the result section; • Please write the degree of positivity for CD90 in the text. • Positive markers surface should be written positive surface markers and the same for negative markers surface should be written negative surface markers. • In some instances, logarithmic scale pH was written correctly and in others as ph?

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

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

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

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

- ☐ The same title
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- ☐ No



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## PEER-REVIEW REPORT

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

**Manuscript NO:** 42912

**Title:** Triple-modal imaging for stem-cell labeled with multimodal nanoparticles, applied in stroke model

**Reviewer's code:** 03811054

**Reviewer's country:** Egypt

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-10-23

**Date reviewed:** 2018-11-02

**Review time:** 10 Days

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 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

### SPECIFIC COMMENTS TO AUTHORS

The manuscript is good and worthy of publication as it focuses on a good goal the importance of quantification of MNP internalized into cells and the efficacy in signal detection for the triple image modality in stroke model but there are some minor things:



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The authors should review the abbreviations. There are abbreviations without expressing them. The item must be written in full and the abbreviation should be written in parentheses. The other thing, is that the authors mentioned that MSCLuc implanted in the animal after submitted to stroke induction; they have to write the method they have induced this stroke in the experimental animals

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

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

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

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## PEER-REVIEW REPORT

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

**Manuscript NO:** 42912

**Title:** Triple-modal imaging for stem-cell labeled with multimodal nanoparticles, applied in stroke model

**Reviewer's code:** 03947685

**Reviewer's country:** Saudi Arabia

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-10-23

**Date reviewed:** 2018-11-04

**Review time:** 12 Days

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 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 checked="" type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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		<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 addresses an important area of research relevant to fate determination of stem cells post transplantation. My comments for the improvement of the quality of the manuscript include: 1. The manuscript contains too much of unnecessary text and

details. Redundancy of the text is distracting for the reader from the the real message. For example, both Introduction and discussion part can be cut down to remove unnecessary details. Similarly, inclusion for 100 references for a research paper are a little too many and need to be reduced significantly. 2. The text needs extensive revision for language, grammar and spellings. There are many words which are not used in English language at all. Please extensively revise the paper. 3. The authors claim that the Triple modal approach will help to morphofunctionally assess the fate of the transplanted cells. It remains less evident from the provided data how the labels will help in assessment of the differentiated cells from the undifferentiated cells and similarly if the the cells proliferate,, how the label will assess the derivative (daughter) cells. Similarly, if the cells undergo apoptosis, how the label will discriminant between the immune cells picking up the released label from the dying/ apoptotic transplanted stem cells.

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

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### *BPG Search:*

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- ☐ Plagiarism
- ☐ No