

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 39573

Title: Regulatory role of Sphingosine kinase and sphingosine-1-phosphate receptor signalling in progenitor/stem cells

Reviewer's code: 03370303

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2018-05-04

Date reviewed: 2018-05-05

Review time: 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input 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 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

This minireview is every excellent, giving us a large volume of information regarding the roles for S1P signaling in regulating physiological functions of various lineages of stem cells. I believe that this review, which is more than a minireview, will contribute to



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an advanced understanding of the significance of S1P signaling in the biology of stem cells.

However, this manuscript contains a few careless mistakes. Before publication in World Journal of Stem Cells, they should be corrected. Points to be corrected: 1) In line 2 in page 15, "Figure 1" should be corrected as "Figure 3". Also, the title of this Figure should be corrected. 2) The Figure 2 in page 15 should be deleted since it is a duplication of Figure 2 in page 13. 3) There is no sentence that refers Figure 2. Please add some descriptions. An example is shown in page 12 in "modified 39573-Manuscript File". 4) The format of Figure 1 is distinct from that of Figure 2. It is desirable for authors to revise the Figure 1 according to the format of Figure 2. An example is attached to page 10 in "modified 39573-Manuscript File". 5) Additional points that need modification are shown in "modified 39573-Manuscript File".

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 39573

Title: Regulatory role of Sphingosine kinase and sphingosine-1-phosphate receptor signalling in progenitor/stem cells

Reviewer's code: 03478635

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2018-05-18

Date reviewed: 2018-05-21

Review time: 2 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 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

The manuscript describes about the S1P signaling in stem cells. The subject is of importance and needs to be investigated. It seems like figure 1 describing about the S1P2 receptor signaling mediated by Gi protein in page 10 and Figure 1 describing about



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SphK/S1P signaling leading to several different cell singling are different. Please re-check them carefully.

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 39573

Title: Regulatory role of Sphingosine kinase and sphingosine-1-phosphate receptor signalling in progenitor/stem cells

Reviewer's code: 01851506

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2018-05-18

Date reviewed: 2018-05-22

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 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

In this review, the authors give the comprehensive review on the role of S1P in the stem cells. In particular, they discuss the potential of S1P-mediated signaling pathway in cell proliferation and in cell differentiation in a variety of systems such as embryonic



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development of vasculature and nervous system, hematopoietic stem cell migration, skeletal muscle regeneration, and multiple sclerosis development. Also the potential involvement of S1P signaling for metastasis and for tumorigenicity in Cancer Stem cells has been discussed. The review is interesting and will attract a wide range of readers. Some typographic errors: hall mark.....hallmark (page 1) TGFb..... TGFbeta (greek) , TNFa...alpha(greek) (page 2) hemopoietic.....hematopoietic (page 3, 4) Stat is not "Activator of Transcription". Stat is a "Signal Transducer and Activator of Transcription" (page 8 and 10) key stone.....keystone (page 9)

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