

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 52151

Title: Do Paneth cells press a 'button' in controlling the pathogenesis of radiation enteropathy?

Reviewer's code: 03478635

Position: Editorial Board

Academic degree: PhD

Professional title: Senior Research Fellow

Reviewer's country: Japan

Author's country: China

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2019-11-22 00:15

Reviewer performed review: 2019-11-25 02:38

Review time: 3 Days and 2 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



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This study investigates the role of Paneth cells in pathogenesis of radiation enteropathy. It is very interesting that the communications between intestinal stem cells and Paneth cells are mediated via molecules such as EGF, WNT3a and DLL.

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: 52151

Title: Do Paneth cells press a 'button' in controlling the pathogenesis of radiation enteropathy?

Reviewer's code: 02440884

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's country: Germany

Author's country: China

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2019-11-26 18:05

Reviewer performed review: 2019-11-26 18:28

Review time: 1 Hour

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 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



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In the review a very interesting topic is addressed: Paneth cells in ionizing radiation damaged intestine and the mechanisms of Paneth cells driven tissue recovery. The topic is well illustrated and important references are cited. Comments 1. It was shown that Math1 mutant mice lack Paneth cells but harbor normal stem cells. As additional signal Wnt3 was suggested. In the review the putative role of Wnt3 in irradiation induced Paneth cell damage should be addressed. 2. The work Annu. Rev. Physiol. 2013. 75:289–311 should be cited.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ Plagiarism
- ☐ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 52151

Title: Do Paneth cells press a 'button' in controlling the pathogenesis of radiation enteropathy?

Reviewer's code: 02567328

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's country: Italy

Author's country: China

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2019-11-21 15:02

Reviewer performed review: 2019-11-28 11:30

Review time: 6 Days and 20 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 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 review is interesting and the topics covered in the different paragraphs are well treated. However, there is no match between title of the review and its content . The authors describe Paneth cells highlighting their role in maintaining epithelial homeostasis and defense but it is not clear how these cells can control the pathogenesis of radiation enteropathy. This is the main and very important problem of the manuscript. For this reason the manuscript should be modified and reorganized for publication. Otherwise it is necessary to change the title to make it more pertinent to the text organizing it differently. - The authors use the terms “intestinal epithelium” incorrectly. Epithelium intestine is part of mucosa that consists of epithelium, lamina propria and muscularis mucosae. Paneth cells are highly specialized epithelial cells of small intestine localized in intestinal glands (crypts) of lamina propria. Please specify - Figure 1 is not clear. Please do it again. - In the text the authors don't specify what correspond acronym CRC. Please add - Paragraph “COMMENSAL BACTERIA, ADAPTIVE IMMUNITY AND INTESTINAL RADIATION SENSITIVITY” is too long. Please separate this paragraph in sections.

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ No

BPG Search:

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- ☐ Duplicate publication



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[] Plagiarism

[Y] No