



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50161

Title: SIRT1 alleviates the ER stress-mediated apoptosis of intestinal epithelial cells in ulcerative colitis

Reviewer's code: 03478635

Reviewer's country: Japan

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-07-17 08:35

Reviewer performed review: 2019-07-18 02:03

Review time: 17 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 checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer's expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Minor revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a basic study demonstrating that Sirtuin 1 (SIRT1) activation reduces apoptosis of intestinal epithelial cells via suppression of ER stress-mediated apoptosis-associated molecules CHOP and caspase-12. The methods and results in the abstract would be



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more concise. The SIRT1 activation induced by the ulcerative colitis may be shown in figure 8.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

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- No



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50161

Title: SIRT1 alleviates the ER stress-mediated apoptosis of intestinal epithelial cells in ulcerative colitis

Reviewer’s code: 02821831

Reviewer’s country: Algeria

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-07-19 10:43

Reviewer performed review: 2019-07-19 11:08

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 polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer’s expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Minor revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The study contribution is interesting . The authors show that Sirtuin 1 activation reduces apoptosis of IECs through the suppression of the endoplasmic reticulum (ER) stress-mediated apoptosis-associated molecules CHOP and caspase-12. SIRT1 activation



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could constitute a potential therapeutic strategy for ulcerative colitis . The Introduction Section is well documented . The authors must add one sentence about the role of cytokines and Nitric oxide in inflammatory process during ulcerative colitis (Soufil et al, 2016) In Materiel and Methos Section, the choice of THP1 cell line(myeolo-monocytic lin in co culture must be argued in the text. The results are intersting. In Discussion, section the clinical relevance of the study in UC must be discused in one ore more sentences. I suggest a minor revision

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50161

Title: SIRT1 alleviates the ER stress-mediated apoptosis of intestinal epithelial cells in ulcerative colitis

Reviewer’s code: 00467030

Reviewer’s country: Taiwan

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-07-18 01:22

Reviewer performed review: 2019-07-23 05:09

Review time: 5 Days and 3 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 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

After reading the entire submitted manuscript, it is a well-conducted article with potential clinical application that SIRT1 may serve as a novel therapeutic strategy for ulcerative colitis in future, to my opinion.



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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50161

Title: SIRT1 alleviates the ER stress-mediated apoptosis of intestinal epithelial cells in ulcerative colitis

Reviewer’s code: 02558978

Reviewer’s country: Taiwan

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-07-18 07:49

Reviewer performed review: 2019-07-23 11:21

Review time: 5 Days and 3 Hours

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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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		<input type="checkbox"/> Major revision	<input type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

World Journal of Gastroenterology-50161 Title: SIRT1 alleviates the ER stress-mediated apoptosis of intestinal epithelial cells in ulcerative colitis Comments: 1. Authors applied the SIRT1 activator SRT1720 and inhibitor NAM to investigate the potential



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effects of SIRT1 on the intestinal barrier in a UC coculture model. Authors conclude that SIRT1 activation significantly increased the expression of occludin and ZO-1 in Caco-2 monolayers, suggesting that SIRT1 may exert protective effects on colitis by promoting intestinal barrier integrity. Please provide the SirT1 protein levels in the treatment of STR1720 and NAM. Most importantly, authors should provide the SirT1 activity to prove the activity of SirT1 was stimulated by STR1720 and inhibited by NAM well and truly, respectively. 2. To prove the protective role of SirT1 on ER stress-mediated colitis, I suggest authors to design experiments to knock-down or express SirT1 in Caco-2 cells and then assay the inflammatory cytolines, the expression of occludin and ZO-1 and ER stress-related proteins.

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