

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 52287

Title: Bacteroides fragilis enterotoxin upregulates heme oxygenase-1 in dendritic cells via reactive oxygen species-, mitogen-activated protein kinase-, and Nrf2-dependent pathway

Reviewer's code: 00410685

Position: Editorial Board

Academic degree: DPhil, MD, PhD

Professional title: Associate Professor

Reviewer's country: Italy

Author's country: South Korea

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-10-29 15:29

Reviewer performed review: 2019-11-07 08:33

Review time: 8 Days and 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	(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

Ko et al describe how *Bacteroides fragilis* enterotoxin upregulates heme oxygenase-1 in dendritic cells using Nrf2 signaling pathway. This study is not entirely new as such pathway has already been described in dendritic cells triggered by *H. Pylori*, as such the novelty is limited as it represents an interesting confirmation that DC utilize this pathway also with another enterotoxin (BFT) at variance with intestinal epithelial cells that utilize NFkB and MAPK pathways as described previously by the same authors. The work is well designed, well presented and results are convincing. There are however some minor technical details that need to be addressed by authors. Figure 8A : phospho JNK blot is clearly affected by transfer problems (bubble)? Making the data unreliable. The authors report that the results displayed are representative of three, please provide alternative, appropriate blots. Figure 8A : Data on expression of total protein are missing. As the cells are treated with lentiviral vectors it is necessary to show that this treatment does not affect total protein expression. Figure 8A: It is not clear which kit has been utilized for detection of MAPK as reported in the legend as the results are reported as western blots. No reference are found by the reviewer that can be referred to this kit in the material and method section, please specify. Page 9, page 18: typing errors (singals instead of signals etc).

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ The same title
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