

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Virology

ESPS manuscript NO: 22098

Title: Inflammatory and oxidative stress in rotavirus infection

Reviewer's code: 00504890

Reviewer's country: United States

Science editor: Xue-Mei Gong

Date sent for review: 2015-08-13 14:28

Date reviewed: 2015-08-19 05:31

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

This is well-written review article on "Inflammatory and oxidative stress in rotavirus infection". The authors have made a comprehensive analysis of the role of inflammatory and oxidative stress in rotavirus infection. Thus, this review article is important for the field. However, the review will be much improved if the authors will consider the following: 1. The abstract indicate that authors focused mainly on the role of inflammatory and oxidative stress in rotavirus infection. However, this review covered the multiple aspects of rotavirus infection, including the role of innate immune response in rotavirus infection. Moreover, the innate immune section has broad discussion with multiple viruses, which are irrelevant to rotavirus infection. It will be good, if authors will focus on discussion of important aspects of inflammatory and oxidative stress in rotavirus infection. The role of innate immune response including TLRs in rotavirus infection could be another review. 2. Authors, often refers multiple viruses through the review, which are not relevant to rotavirus infection. 3. The authors present a large amount of published information showing multiple proteins/enzymes and signaling pathways of inflammatory and oxidative stress, which may play critical role in rotavirus infection. This should be presented as a table(s) or schematic diagrams; otherwise, it will be hard for



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the readers. 4. The authors need to create models (cartoons) showing the potential molecular mechanism of inflammatory and oxidative stress in modulation of rotavirus infection. Such cartoons could be created in each section and one summary model could be generated for “concluding remarks” section, which may show the role of inflammatory and oxidative stress in molecular pathogenesis of rotavirus infection.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Virology

ESPS manuscript NO: 22098

Title: Inflammatory and oxidative stress in rotavirus infection

Reviewer's code: 00504918

Reviewer's country: United States

Science editor: Xue-Mei Gong

Date sent for review: 2015-08-13 14:28

Date reviewed: 2015-09-02 02:25

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

This review is excellent. Just a few grammar/spelling errors but overall very well written.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Virology

ESPS manuscript NO: 22098

Title: Inflammatory and oxidative stress in rotavirus infection

Reviewer's code: 00504096

Reviewer's country: Iran

Science editor: Xue-Mei Gong

Date sent for review: 2015-08-13 14:28

Date reviewed: 2015-09-07 02:58

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The present manuscript tries to review the role of oxidative stress and inflammation responses and signaling in rotavirus infection and pathogenesis with an emphasis on cellular proteins having oxidoreductase, thiol isomerization and chaperone activities in connection to rotavirus entry into the host cell and finally discuss potential therapeutic approaches targeting them. Major comment: Taken together, manuscript is well written, well organized and compromise the major and available knowledge in the domain. However for a review article with such great insights and extents, the manuscript suffers from lack of: 1. "Specially designed Figures and tables" to summarize and collect the presented knowledge and data in the manuscript. 2. Concluding remarks at the end of each section to figure out the prospect of future research in the specified domain presented in each section. 3. Improving the text and presentation of data to better relate the inter- and intra-presented knowledge in sections to give a general picture on the main subject of the manuscript. Minor comments: I would suggest to include some related studies in case of animal rotavirus infections and role of inflammatory and oxidative stress and potential role of interacting bacterial infections with rotavirus infection. Some examples are in the following: Alterations in oxidant/antioxidant balance,



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high-mobility group box 1 protein and acute phase response in cross-bred suckling piglets suffering from rotaviral enteritis. Kumar De U, Mukherjee R, Nandi S, Patel BH, Dimri U, Ravishankar C, Verma AK. Trop Anim Health Prod. 2014 Oct; 46 (7): 1127-33. doi: 10.1007/s11250-014-0616-3. Epub 2014 May 22 Malnutrition modifies pig small intestinal inflammatory responses to rotavirus. Zijlstra RT, McCracken BA, Odle J, Donovan SM, Gelberg HB, Petschow BW, Zuckermann FA, Gaskins HR. J Nutr. 1999 Apr; 129 (4) : 838-43 Klebsiella pneumoniae bacteraemia complicating rotavirus gastroenteritis in two infants with glucocorticoid deficiency. Longmore DK, Batch JA, McMahon SK, Conwell LS. J Pediatr Endocrinol Metab. 2010 Mar; 23 (3): 293-5.