

PEER-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 65898

Title: Orosomucoid-like protein 3, rhinovirus and asthma

Reviewer's code: 05432496

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Fellow

Reviewer's Country/Territory: Brazil

Author's Country/Territory: United Kingdom

Manuscript submission date: 2021-03-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-17 14:59

Reviewer performed review: 2021-03-20 19:14

Review time: 3 Days and 4 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

This review manuscript summarizes the current knowledge on the orosomucoid-like protein 3 (ORMDL3) gene, Rhinovirus infection, and Asthma. The title, abstract, and keywords are appropriated. Nevertheless, the manuscript is more HRV centered, I would suggest changing the title to remove the "asthma". The text is concise and cites the mains investigations (references) on the subject. The manuscript lacks a graphical abstract, but has 2 tables "ORMDL3 Roles in Regulating Human Rhinovirus Infection" and "The Models for Studying Interaction of Host and Environmental Factors". Please cite table 1 on the text. Importantly, the author highlights the potential investigation methods and applications. The quality of the manuscript is very good, with few typos.

PEER-REVIEW REPORT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 65898

Title: Orosomucoid-like protein 3, rhinovirus and asthma

Reviewer's code: 00005290

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: United Kingdom

Manuscript submission date: 2021-03-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-19 11:07

Reviewer performed review: 2021-03-23 11:13

Review time: 4 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Dr Youming Zhang presents an interesting review, focusing on the recent research on the relationship between ORMDL3 gene , childhood asthma and HRV infection. ORMDL3 has been shown to mediate HRV infection through regulating expression of HRV receptor ICAM1, metabolisms of ceramide and sphingosine-1-phosphate (S1P), endoplasmic reticulum (ER) stress, ER-Golgi interface and glycolysis. In the conclusion the Author suggests the use of genetic modified epithelial cells provides a powerful platform to identify novel therapeutic targets related to HRV infection, which is a well-known trigger of asthma, not only in children. Minor points 1-Any data concerning the phenotype (allergic, eosinophilic, non eosinophilic etc) of asthma related to ORMDL gene polymorphism ? 2- ORMDL3 is expressed in eosinophils and some data showed that, In adult subjects, the number of T alleles at SNP rs7216389 ci related to significantly greater FeNO levels and peripheral eosinophil counts (Schwantes EA et al J Asthma Allergy 2017).

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Critical Care Medicine

Manuscript NO: 65898

Title: Orosomucoid-like protein 3, rhinovirus and asthma

Reviewer's code: 00005290

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: United Kingdom

Manuscript submission date: 2021-03-17

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-04-19 06:38

Reviewer performed review: 2021-04-19 06:49

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In the revised manuscript addressed all the raised points.