



PEER-REVIEW REPORT

Name of journal: *World Journal of Virology*

Manuscript NO: 74200

Title: Omicron variant and change of electrostatic Interactions between receptor binding domain of SARS-CoV-2 with the AC Y receptor

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05824555

Position: Peer Reviewer

Academic degree: Doctor

Professional title: MD

Reviewer's Country/Territory: Brazil

Author's Country/Territory: Thailand

Manuscript submission date: 2021-12-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-21 14:55

Reviewer performed review: 2021-12-21 15:35

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 Grade E: Do not publish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 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



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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 paper presents a study concerning the molecular impact of Covid-19 variants omicron, delta and beta. More precisely, the authors investigated how mutations are related to electrostatic Interactions between receptor binding domain of SARS-CoV-2 with the ACE2 receptor. Despite the importance of this research topic, especially because of omicron variant, which is new, there are some issues that deserve to be properly addressed before publication: 1) There are several typos and some editing mistakes that must be corrected: “In this report, three important COVItD-19” “The delta variation is one of” “transmission of the delta variation is easier” => “transmission of the delta variation is higher” “and is now being” => “and it is now being” “of concern, the omicron variant, is discovered” => “of concern, the omicron variant, was discovered” “The impact of molecular changes is fascinating,” fascinating??? 2) This draft needs to be improved concerning the data description (the parameters adopted in the simulation models, where the data comes from?, which data was simulated). 3) Authors could present graphical results and other data compilations in order to make the paper more robust and attractive.



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Reviewer's code: 05476667

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Research, Assistant Professor, Pediatric Gastroenterology Fellow

Reviewer's Country/Territory: Iran

Author's Country/Territory: Thailand

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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

I agreed with authors that SARS CoV2 variants are currently a new hazard. Please add the legend for the table 1. Please extend the result section. the study promotes by the Native speaker revision. Please clearly state when you use Virus



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Reviewer's code: 03035807

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Thailand

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Reviewer performed review: 2021-12-30 01:46

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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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

Generally, it is a good topic to report the change in electrostatic interactions between receptor and virus. it is encouraged to describe how to calculated the effects of the aforementioned mutations and compared our findings to those of the wild type (Native) protein, and the conclusion of the calcualtion, the clinical significance of the speicific different number in table 1. In addition, the minor errors should be awared, such as " electrostatic interactions betweenreceptor " , " An key feature" .