

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Virology*

**Manuscript NO:** 69299

**Title:** Animal models for SARS-CoV-2 and SARS-CoV-1 pathogenesis, transmission, and therapeutic evaluation

**Reviewer's code:** 05301926

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-06-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-25 09:31

**Reviewer performed review:** 2021-06-26 08:29

**Review time:** 22 Hours

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 Grade E: Do not publish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

The authors reviewed several kinds of animal models for COVID-19 experiments. This review has value and useful comments are found in this manuscript. However, more detailed description will be favorable. 1. The immunological backgrounds of the mice, such as the Balb/c and C57/B6 may be critical for the appearance of the pathogenesis, symptoms, and results of mice studies. The authors should add and make clear the immunological differences between Balb/c and C57/B6. For example, it may be important whether Th1 or Th2 reaction is dominant. 2. The authors should add the latter paper as the reference: Koo B, et al. J Infect Dis 2020: Transient Lymphopenia and Interstitial Pneumonia With Endotheliitis in SARS-CoV-2-Infected Macaques 3. Some hypo: For example, Page 6, 103 and 105 may be not used superscript letters.

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Virology*

**Manuscript NO:** 69299

**Title:** Animal models for SARS-CoV-2 and SARS-CoV-1 pathogenesis, transmission, and therapeutic evaluation

**Reviewer's code:** 04686139

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Portugal

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-06-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-06-24 18:33

**Reviewer performed review:** 2021-06-29 15:58

**Review time:** 4 Days and 21 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

Dear Authors The manuscript is well written, has important message, and should be of great interest to the readers. The purpose of this manuscript is to report a critical review of literature about the recent progress in developing animal models for the above-stated two pathogenic viruses, highlighting the utility of these models in studying human diseases. Title is clear and informative; it displays the main objective of the study. The abstract contains focused background with clear objective. However the objective of work is the utility of animal models for SARS-CoV-2 and SARS-CoV-1 and not to all diseases. The following sentence can be update according new data" According to WHO, as of 5th June 2021, 172,247,729 SARS CoV2 cases were confirmed in 223 countries with 3 709 487 confirmed death cases with a case mortality ratio of 2.2% differential transmissibility rate R0 was 1.5–5.5 (WHO, 2021)." The section "5. Cats" can be more developed, and new references can be add. Table 2 is difficult to read related to the title. Maybe change de content or change the title. The reference list covers the relevant literature adequately and in an unbiased manner.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** *World Journal of Virology*

**Manuscript NO:** 69299

**Title:** Animal models for SARS-CoV-2 and SARS-CoV-1 pathogenesis, transmission, and therapeutic evaluation

**Reviewer's code:** 05301926

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-06-24

**Reviewer chosen by:** Jia-Ru Fan

**Reviewer accepted review:** 2021-09-28 11:45

**Reviewer performed review:** 2021-09-28 11:54

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	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



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The authors revised according to the reviewers' comments.