

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 66507

Title: Cathepsin L, transmembrane peptidase/serine subfamily member 2/4, and other host proteases in COVID-19 pathogenesis – with impact on gastrointestinal tract

Reviewer's code: 05187266

Position: Peer Reviewer

Academic degree: MD

Professional title: Research Fellow

Reviewer's Country/Territory: United States

Author's Country/Territory: Poland

Manuscript submission date: 2021-03-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-29 13:15

Reviewer performed review: 2021-03-30 19:47

Review time: 1 Day and 6 Hours

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 Grade E: Do not publish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
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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

SPECIFIC COMMENTS TO AUTHORS

The authors an extremely thorough review on the topic. I believe with a few minor additions, the manuscript may be acceptable for publication. A table with the discovered caspases/receptors used by COVID would be beneficial. Also, a figure highlighting how COVID-19 infects cells and which pathways are used, especially in the gastrointestinal system. With these additions I believe the manuscript may be publishable.

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 66507

Title: Cathepsin L, transmembrane peptidase/serine subfamily member 2/4, and other host proteases in COVID-19 pathogenesis – with impact on gastrointestinal tract

Reviewer's code: 05702710

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Poland

Manuscript submission date: 2021-03-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-29 14:28

Reviewer performed review: 2021-04-09 12:40

Review time: 10 Days and 22 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 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
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SPECIFIC COMMENTS TO AUTHORS

This manuscript reviews possible routes of the virus infection concerning the host-enzymatic systems responsible for the proteolytic priming of SARS-CoV-2. There is no review on the given topic, and thus the paper provides the reader with all the necessary information in one place. The manuscript is comprehensive and well-written and must be accepted for publication in the journal.