

PEER-REVIEW REPORT

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Title: Therapeutic implications of SARS-CoV-2 dysregulation of the gut-brain-lung axis

Reviewer's code: 03064668

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

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Reviewer chosen by: AI Technique

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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 Grade E: Do not publish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 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
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 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



**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

In this review, the authors summarized recent findings on COVID-19 pathogenesis in the Gut-Brain-Lung Axis and offer therapeutic interventions to improve clinical outcomes. It is importance for readers to better understand the relationship between gut and SARS-CoV-2. Major comments: 1.The authors can use more figures and tables to summarize their findings, making it easier for readers to understand. 2. Some parts of the review needs to be readjusted to make the structure clearer, “Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) infection in the Gut”, “Gut Inflammation and SARS-CoV-2”, and “SARS-CoV-2 infection results in Microbial Dysbiosis in the Gut” are all about SARS-CoV-2 and gut. “Utility of Vitamin D as an Alternative Therapy for SARS-CoV-2 and IBD therapy” can be put in the last part. Minor comments: 1.In the core tip part, “In this review, we summarize recent findings on COVID-19 pathogenesis in the gut-brain axis and offer therapeutic interventions to improve clinical outcomes.” gut-brain axis or gut-brain-lung axis, please confirm it. 2.In the introduction part, “The pandemic has taken countless lives (approximately 2 million worldwide as of 01/15/2021) and unprecedented socio-economic losses.” By 18 April 2021, the Confirmed deaths is 3, 003, 794, please update the number. 3. Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), the abbreviation should be used for the first time it appears.