

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Pathophysiology*

Manuscript NO: 65807

Title: Application of Electron Microscopy in Gastroenterology

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05824279

Position: Peer Reviewer

Academic degree: Doctor, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2021-03-16

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2021-09-01 13:45

Reviewer performed review: 2021-09-06 00:59

Review time: 4 Days and 11 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☐ Grade C: Good ☒ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☒ Grade A: Priority publishing ☐ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☐ Minor revision ☒ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No
Peer-reviewer	Peer-Review: ☒ Anonymous ☐ Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

There is no doubt that Electron microscopy has long been used in in the field of gastroenterology, so the author's minreview is meaningful, but the author's writing attitude is obviously not serious. 1. In the abstract: iv) detection and characterization of microorganisms, v) diagnosis of tumors with neuroendocrine differentiation, and vi) analysis of gold nanoparticles. At first glance, these subtitles did not highlight gastrointestinal issues, which would make readers feel very confused. 2. The choice of keywords is also very confusing, and does not summarize the core of the whole article. 3. In the INTRODUCTION, Based on its versatility, electron microscopy analysis has been used in several studies covering various aspects of clinical samples and a diverse range of basic research in the field of gastroenterology.clinical samples include gastroenterology, you put them together It seems inappropriate. (The full manuscript has a lot of questions like this, which must be revised). 4. The part of ANALYTICAL METHODS IN ELECTRON MICROSCOPY is actually a bit confusing, because the three different types of electron microscopes can be cross-applied in the field of biology (scanning electron microscopes can be used to observe the microscopy of tissues, cell surfaces or fracture surfaces. And the submicroscopic structure and the surface structure of larger granular samples (3nm-10nm), this is also applicable to the observation of some virus infections and bacterial infections.), the author should be taken together write, three different instruments independently write some confusion. 5. Since it is a minreview, I think the part of EXAMPLES OF ELECTRON MICROSCOPY ANALYSES should be reduced to summarize the essence. 6. In the part of Lanthanum deposition, the author quoted pictures. All use of pictures should be authorized by the journal publisher, otherwise there will be copyright disputes (Figure 3 should also be authorized,



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although it is a paper published by your team, but also should be authorized by the journal publisher). 7. Enteroliths and bezoars, I think the second paragraph is the result of your previous research, which can be summarized if the key description is redundant.

8. The description of Pathogens including bacteria, parasites, and viruses in this small chapter is good. Each chapter should be written in this way, which is clear and easy for readers to read. (But the subtitle does not highlight the gastrointestinal relationship at all, which is particularly bad.) 9. Tumor with neuroendocrine differentiation, Transmission electron microscopy revealed that neuroendocrine tumor cells contained numerous dense-core secretory granules of variable sizes and shapes in the cytoplasm. Because these neurosecretory granules are characteristic of neuroendocrine tumors, electron microscopy analysis has been used to support its diagnosis. What is the correlation between this and intestinal tumors? Clearly stated in the gut! 10. Gold nanoparticle, this part is even more so, what does it have to do with gastrointestinal disease? How do readers understand? 11. CONCLUSIONS has the same problem, please modify the subtitle! 12. Please verify the reference format again! Individual format is obviously wrong and not serious!

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Author's Country/Territory: Japan

Manuscript submission date: 2021-03-16

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-11-16 07:15

Reviewer performed review: 2021-11-16 07:22

Review time: 1 Hour

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



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SPECIFIC COMMENTS TO AUTHORS

accept