

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47858

**Title:** Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases

**Reviewer's code:** 03476711

**Reviewer's country:** Egypt

**Science editor:** Jia-Ping Yan

**Reviewer accepted review:** 2019-03-30 14:50

**Reviewer performed review:** 2019-04-10 09:33

**Review time:** 10 Days and 18 Hours

| SCIENTIFIC QUALITY                                     | LANGUAGE QUALITY  | CONCLUSION                                 | PEER-REVIEWER STATEMENTS                      |
|--|---|--|---|
| <input type="checkbox"/> Grade A: Excellent            | <input type="checkbox"/> Grade A: Priority publishing       | <input type="checkbox"/> Accept            | Peer-Review:                                  |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language | (High priority)                            | <input checked="" type="checkbox"/> Anonymous |
| <input type="checkbox"/> Grade C: Good                 | polishing   | <input checked="" type="checkbox"/> Accept | <input type="checkbox"/> Onymous              |
| <input type="checkbox"/> Grade D: Fair                 | <input type="checkbox"/> Grade C: A great deal of           | (General priority)                         | Peer-reviewer's expertise on the              |
| <input type="checkbox"/> Grade E: Do not               | language polishing  | <input type="checkbox"/> Minor revision    | topic of the manuscript:                      |
| publish  | <input type="checkbox"/> Grade D: Rejection                 | <input type="checkbox"/> Major revision    | <input checked="" type="checkbox"/> Advanced  |
|  |   | <input type="checkbox"/> Rejection         | <input type="checkbox"/> General              |
|  |   |  | <input type="checkbox"/> No expertise         |
|  |   |  | Conflicts-of-Interest:                        |
|  |   |  | <input type="checkbox"/> Yes                  |
|  |   |  | <input checked="" type="checkbox"/> No        |

### SPECIFIC COMMENTS TO AUTHORS

Dear authors Thank you for the interesting review. Just very few comments.

### INITIAL REVIEW OF THE MANUSCRIPT



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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47858

**Title:** Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases

**Reviewer's code:** 02529576

**Reviewer's country:** India

**Science editor:** Jia-Ping Yan

**Reviewer accepted review:** 2019-05-10 13:05

**Reviewer performed review:** 2019-05-10 16:21

**Review time:** 3 Hours

| SCIENTIFIC QUALITY                                | LANGUAGE QUALITY   | CONCLUSION   | PEER-REVIEWER STATEMENTS                      |
|---|--|--|---|
| <input type="checkbox"/> Grade A: Excellent       | <input checked="" type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept                    | Peer-Review:                                  |
| <input type="checkbox"/> Grade B: Very good       | <input type="checkbox"/> Grade B: Minor language                 | (High priority)                                    | <input checked="" type="checkbox"/> Anonymous |
| <input checked="" type="checkbox"/> Grade C: Good | polishing  | <input type="checkbox"/> Accept                    | <input type="checkbox"/> Onymous              |
| <input type="checkbox"/> Grade D: Fair            | <input type="checkbox"/> Grade C: A great deal of                | (General priority)                                 | Peer-reviewer's expertise on the              |
| <input type="checkbox"/> Grade E: Do not          | language polishing   | <input checked="" type="checkbox"/> Minor revision | topic of the manuscript:                      |
| publish   | <input type="checkbox"/> Grade D: Rejection                      | <input type="checkbox"/> Major revision            | <input type="checkbox"/> Advanced             |
|   |  | <input type="checkbox"/> Rejection                 | <input checked="" type="checkbox"/> General   |
|   |  |  | <input type="checkbox"/> No expertise         |
|   |  |  | Conflicts-of-Interest:                        |
|   |  |  | <input checked="" type="checkbox"/> Yes       |
|   |  |  | <input type="checkbox"/> No                   |

### SPECIFIC COMMENTS TO AUTHORS

The authors have done a good review of the present status of intestinal organoids use in IBD along with possible future applicability and limitations. Only two more features may be further discussed. [1] The use of organoid cultures for high-throughput drug



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screening, genetic editing and gene silencing etc as may be applicable for IBD treatment.

[2] The use of organoids from very young patients having rare forms of IBD [e.g. very early onset IBD caused by monogenetic aberrations like IL-10, IL-10R, XIAP, NCF2, or TTC7] may help to understand the role of those genes and lead to drug discovery that reverse the consequences of those mutations. [e.g. intestinal organoids grown from children with multiple intestinal atresia showed an inverted growth with the cells apical side on the outside of the organoids; treatment with a Rho kinase inhibitor led to reversal of this inversion and could help in the development of new therapies for this condition [3] Under limitations discuss also the difficulties in development of a reliable model of microbiota–epithelium interactions.

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- ☐ [ Y ] No

##### ***BPG Search:***

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [ Y ] No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47858

**Title:** Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases

**Reviewer's code:** 01587796

**Reviewer's country:** United States

**Science editor:** Jia-Ping Yan

**Reviewer accepted review:** 2019-05-10 15:11

**Reviewer performed review:** 2019-05-10 16:42

**Review time:** 1 Hour

| SCIENTIFIC QUALITY                                     | LANGUAGE QUALITY   | CONCLUSION   | PEER-REVIEWER STATEMENTS                    |
|--|--|--|---|
| <input type="checkbox"/> Grade A: Excellent            | <input checked="" type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept                    | Peer-Review:                                |
| <input checked="" type="checkbox"/> Grade B: Very good | <input type="checkbox"/> Grade B: Minor language                 | (High priority)                                    | <input type="checkbox"/> Anonymous          |
| <input type="checkbox"/> Grade C: Good                 | polishing  | <input type="checkbox"/> Accept                    | <input checked="" type="checkbox"/> Onymous |
| <input type="checkbox"/> Grade D: Fair                 | <input type="checkbox"/> Grade C: A great deal of                | (General priority)                                 | Peer-reviewer's expertise on the            |
| <input type="checkbox"/> Grade E: Do not               | language polishing   | <input checked="" type="checkbox"/> Minor revision | topic of the manuscript:                    |
| publish  | <input type="checkbox"/> Grade D: Rejection                      | <input type="checkbox"/> Major revision            | <input type="checkbox"/> Advanced           |
|  |  | <input type="checkbox"/> Rejection                 | <input checked="" type="checkbox"/> General |
|  |  |  | <input type="checkbox"/> No expertise       |
|  |  |  | Conflicts-of-Interest:                      |
|  |  |  | <input type="checkbox"/> Yes                |
|  |  |  | <input checked="" type="checkbox"/> No      |

### SPECIFIC COMMENTS TO AUTHORS

These authors have done a splendid job of reviewing and elucidating the means by which in vitro techniques can be exploited to explore the therapeutic potential of various agents in IBD as well as other diseases. To round out their extensive review of



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intestinal organoids as a research tools, the authors might want to give at least a brief mention to the current and past use of human fetal intestinal organ culture (e.g., Proc Natl Acad Sci USA 2000;97:6043-8. J Exp Med 1988;167:1341-9. Pediatr Res 2015;77:528-35). On the other hand, given the laboratory-oriented focus of this technical review, it might not be necessary to devote quite so much space and bibliography to articles regarding current clinical therapeutic approaches to IBD.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47858

**Title:** Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases

**Reviewer's code:** 02456959

**Reviewer's country:** China

**Science editor:** Jia-Ping Yan

**Reviewer accepted review:** 2019-05-12 07:31

**Reviewer performed review:** 2019-05-14 09:54

**Review time:** 2 Days and 2 Hours

| SCIENTIFIC QUALITY                                  | LANGUAGE QUALITY                                       | CONCLUSION                                    | PEER-REVIEWER STATEMENTS                    |
|---|--|---|---|
| <input type="checkbox"/> Grade A: Excellent         | <input type="checkbox"/> Grade A: Priority publishing  | <input type="checkbox"/> Accept               | Peer-Review:                                |
| <input type="checkbox"/> Grade B: Very good         | <input type="checkbox"/> Grade B: Minor language       | (High priority)                               | <input type="checkbox"/> Anonymous          |
| <input type="checkbox"/> Grade C: Good              | polishing  | <input type="checkbox"/> Accept               | <input type="checkbox"/> Onymous            |
| <input type="checkbox"/> Grade D: Fair              | <input type="checkbox"/> Grade C: A great deal of      | (General priority)                            | Peer-reviewer's expertise on the            |
| <input checked="" type="checkbox"/> Grade E: Do not | language polishing                                     | <input type="checkbox"/> Minor revision       | topic of the manuscript:                    |
| publish   | <input checked="" type="checkbox"/> Grade D: Rejection | <input type="checkbox"/> Major revision       | <input type="checkbox"/> Advanced           |
|   |  | <input checked="" type="checkbox"/> Rejection | <input checked="" type="checkbox"/> General |
|   |  |   | <input type="checkbox"/> No expertise       |
|   |  |   | Conflicts-of-Interest:                      |
|   |  |   | <input type="checkbox"/> Yes                |
|   |  |   | <input checked="" type="checkbox"/> No      |

### SPECIFIC COMMENTS TO AUTHORS

Yoo JH et al. (Manuscript Number: 47858) perform review on "Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases". However, I have following concerns about this work at least in its present



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form. 1. This manuscript must be copyedited by native-English speakers before resubmit it. 2. It is recommended to rewrite the abstract and full text according to the formats of “introduction, materials and methods, results, discussion and conclusions”. 3. Please delete the redundancy sentences, and use the tables or figures to show information. 4. On the section of Discussion, the main findings, limitations, and authors’ recommendations should be present more clearly and comprehensively. 5. This manuscript must fit the journal's requirements or format.

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##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47858

**Title:** Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases

**Reviewer's code:** 02998194

**Reviewer's country:** Greece

**Science editor:** Jia-Ping Yan

**Reviewer accepted review:** 2019-05-10 15:03

**Reviewer performed review:** 2019-05-17 13:53

**Review time:** 6 Days and 22 Hours

| SCIENTIFIC QUALITY                          | LANGUAGE QUALITY                                      | CONCLUSION                              | PEER-REVIEWER STATEMENTS              |
|---|---|---|---------------------------------------|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept         | Peer-Review:                          |
| <input type="checkbox"/> Grade B: Very good | <input type="checkbox"/> Grade B: Minor language      | (High priority)                         | <input type="checkbox"/> Anonymous    |
| <input type="checkbox"/> Grade C: Good      | polishing   | <input type="checkbox"/> Accept         | <input type="checkbox"/> Onymous      |
| <input type="checkbox"/> Grade D: Fair      | <input type="checkbox"/> Grade C: A great deal of     | (General priority)                      | Peer-reviewer's expertise on the      |
| <input type="checkbox"/> Grade E: Do not    | language polishing                                    | <input type="checkbox"/> Minor revision | topic of the manuscript:              |
| publish                                     | <input type="checkbox"/> Grade D: Rejection           | <input type="checkbox"/> Major revision | <input type="checkbox"/> Advanced     |
|   |   | <input type="checkbox"/> Rejection      | <input type="checkbox"/> General      |
|   |   |   | <input type="checkbox"/> No expertise |
|   |   |   | Conflicts-of-Interest:                |
|   |   |   | <input type="checkbox"/> Yes          |
|   |   |   | <input type="checkbox"/> No           |

### SPECIFIC COMMENTS TO AUTHORS

I would like to congratulate you for this excellent review

### INITIAL REVIEW OF THE MANUSCRIPT



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***Google Search:***

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- ☐ No

***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 47858

**Title:** Intestinal enteroids/organoids: a novel platform for drug discovery in inflammatory bowel diseases

**Reviewer's code:** 03479673

**Reviewer's country:** Bahrain

**Science editor:** Jia-Ping Yan

**Reviewer accepted review:** 2019-05-11 06:41

**Reviewer performed review:** 2019-05-20 16:30

**Review time:** 9 Days and 9 Hours

| SCIENTIFIC QUALITY                                     | LANGUAGE QUALITY  | CONCLUSION                                 | PEER-REVIEWER STATEMENTS                      |
|--|---|--|---|
| <input type="checkbox"/> Grade A: Excellent            | <input type="checkbox"/> Grade A: Priority publishing       | <input type="checkbox"/> Accept            | Peer-Review:                                  |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language | (High priority)                            | <input checked="" type="checkbox"/> Anonymous |
| <input type="checkbox"/> Grade C: Good                 | polishing   | <input checked="" type="checkbox"/> Accept | <input type="checkbox"/> Onymous              |
| <input type="checkbox"/> Grade D: Fair                 | <input type="checkbox"/> Grade C: A great deal of           | (General priority)                         | Peer-reviewer's expertise on the              |
| <input type="checkbox"/> Grade E: Do not               | language polishing  | <input type="checkbox"/> Minor revision    | topic of the manuscript:                      |
| publish  | <input type="checkbox"/> Grade D: Rejection                 | <input type="checkbox"/> Major revision    | <input type="checkbox"/> Advanced             |
|  |   | <input type="checkbox"/> Rejection         | <input checked="" type="checkbox"/> General   |
|  |   |  | <input type="checkbox"/> No expertise         |
|  |   |  | Conflicts-of-Interest:                        |
|  |   |  | <input type="checkbox"/> Yes                  |
|  |   |  | <input checked="" type="checkbox"/> No        |

### SPECIFIC COMMENTS TO AUTHORS

Dear Authors, Congratulations for this extensive review. Topic is new and relevant to current research; review is nearly perfect, although it is pertaining to basic science. There is no window left for me to suggest any changes. All the best.



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- ☐ No

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- ☐ No