

Peer-review report(s). Authors must resolve all issues in the manuscript that are raised in the peer-review report(s) and provide point-by-point responses to each of the issues raised in the peer-review report(s):

Reviewer #1:

Scientific Quality: Grade D (Fair)

Language Quality: Grade B (Minor language polishing)

Conclusion: Major revision

Specific Comments to Authors:

The authors of the mini-review by De Paulo et al. sought to elucidate the role of extracellular matrix (ECM) as a subject of bioengineering in gastrointestinal (GI) tract research. Their primary focus is on inflammatory bowel disease (IBD). In essence, the evaluation is highly articulate and organized. The objective of the article is evident. Nevertheless, there are other concerns that require significant changes.

1. Change the subtitle from "LESIONS AND DISEASES AND INFLAMMATORY BOWEL DISEASE" to "ECM in IBD".

R: Thank you for your correction. We have changed the subtitle.

2. Regarding the influence of ECM on inflammation and carcinogenesis, the landmark publications of Hanahan, Weinberg (doi: 10.1016/s0092-8674(00)81683-9; doi: 10.1016/j.cell.2011.02.013; doi: 10.1158/2159-8290.CD-21-1059), and Colotta (<https://doi.org/10.1093/carcin/bgp127>) must be mentioned.

R: Thank you for your correction. We have added the references

3. Refs. 21, 33, 35, and 51 are incomplete. 4. The format of the references is not uniform.

R: Thank you for your correction. We have changed all the references

5. The ratio of the newest articles from 2023–2024 in the reference list is quite low.

R: Thank you for your correction. We have added more references.

6. The page numbering is incorrect regarding pages 20 and 21. (i.e., 20/19; 21/19).

R: Thank you for your correction. We have changed the page numbering.

7. On page 11, neo-MEC should be corrected to neo-ECM.

R: Thank you for your correction. We have corrected.

8. The main aspects of the following article must also be incorporated into the review: doi:
10.1093/ecco-jcc/jjae077

R: Thank you for your correction. We have added the references

9. The decellularization techniques that are discussed in the last chapter should also be placed in a table in which the main advantages and disadvantages should be compared.

R: Thank you for your correction. We have added a table with Characteristics and Effects; and Preservation of the ECM

10. This article does not provide any insight into the potential of ECM cellular depletion procedures and matrix preservation for the modeling and therapy of IBD. A chapter will be devoted to this aspect before the conclusion.

R: Thank you for your correction. We have added a new chapter

11. In addition, one or two figures would be necessary to make the topic of the article understandable for the general public. Overall, the article attempts to summarize a very interesting and important topic. Basically, it is a well-written piece of work, but the content needs to be expanded on the aspects I suggested, and the errors and typos pointed out need to be corrected. It is also essential to include a table and one or two figures, as this will enhance the relevance and comprehensibility of the article. Finally, a summary chapter should be written in which the authors present the possible future role of structural modeling of ECM in IBD.

R: Thank you for your correction. We have added a figure and a table.

Editorial Office's comments. Authors must revise the manuscript according to the Editorial Office's comments and suggestions, which are provided below:

(1) Science Editor:

1 Scientific quality:

The authors explore the perspectives on the extracellular matrix in inflammatory bowel disease and bowel decellularization protocols. The topic is within the scope of the journal.

(1) Classification:

Grade D;

(2) Summary of the Peer-Review Report:

Basically, it is a well-written piece of work, but the content needs to be expanded on the aspects I suggested, and the errors and typos pointed out need to be corrected. It is also essential to include a table and one or two figures, as this will enhance the relevance and comprehensibility of the article. Finally, a summary chapter should be written in which the authors present the possible future role of structural modeling of ECM in IBD.

R: Thank you for your correction. We have added a new chapter and a figure and a table.

(3) References recommendations:

The reviewer didn't request the authors to cite improper references published by him/herself.

(4) Manuscript Type:

After verification, the manuscript type is "Minireviews".

2 Specific comments

(1) Country/Territory of origin: Brazil.

(2) The language classification is Grade B.

Please visit the following website for the professional English language editing companies that we recommend: <https://www.wjgnet.com/bpg/gerinfo/240>.

(3) Reference numbers in the main text:

The reference does not require superscripts, please modify it. The correct format is "the spleen hilum[3]".

Thank you for your correction. We have changed all the references

(4) References:

References are not allowed to be duplicated (No. 27 and 28; No. 2 and 53).

Thank you for your correction. We have changed all the references

(5) Acknowledgment:

Please remove the fund information from the section. The funds should be listed in the section of "Supported by...."

R: Thank you for your correction. We removed the fund information.

(6) Figures or tables:

Please upload the document of figures or tables referred in your manuscript.

R: Thank you for your correction. We have added a figure and a table.

3 Recommendation: Conditional acceptance.

Language Quality: Grade B (Minor language polishing)

Scientific Quality: Grade D (Fair)

(2) *Company Editor-in-Chief:*

I have reviewed the Peer-Review Report, full text of the manuscript, all of which have met the basic publishing requirements of the *World Journal of Experimental Medicine* and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors. Before final acceptance, the author(s) must add a table/figure (medical imaging) to the manuscript.