

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 69619

Title: Current knowledge on the multiform reconstitution of intestinal stem cell niche

Reviewer's code: 04023112

Position: Peer Reviewer

Academic degree: BSc, MSc, PhD

Professional title: Associate Research Scientist, Research Scientist

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-10 15:41

Reviewer performed review: 2021-07-19 07:36

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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 Grade E: Do not publish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 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

SPECIFIC COMMENTS TO AUTHORS

Dear authors, The manuscript entitled: "Multiform reconstitution of the intestinal stem cell niche" represents a well designed review article. Only some minor modifications need to be performed, in order the the quality of the manuscript to be improved. 1) In my opinion the title need some further modification, because it is confusable and mostly corresponds to a research article rather than to a review study. 2) In pages 4-6 section 2.1 Biochemical Signaling within the ISC Niche. I think it would be better the specific signalling pathways should not be seperated as differenc subsections. If the authors insist to present seperately the different signalling pathways more information need to be added. 3) In pages 11-13, sectiion 3.1 dECM. The authors should include information regarding the characteristics of dECM based on the studies of Crapo et al (Biomaterials. 2011 Apr; 32(12): 3233-3243.), Badylak (Semin Cell Dev Biol . 2002 Oct;13(5):377-83.) and Mallis et al. (Bioengineering (Basel) . 2020 Dec 10;7(4):160). 4) The authors should add before the section 5 Future Development and Challenges, a section descibing the potential applications of the presented methodology. Are there any clinical trials that are now performing using the described methodologies. 5) Also the authors should add the interplay between Intestinal Mesenchymal Stromal Cells and Intestinal cells, their role and their potential contribution in immunity.