

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Stem Cells*

**Manuscript NO:** 82012

**Title:** How the interplay among the tumor microenvironment and the gut microbiota influence the stemness of colorectal cancer cells

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05469117

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Adjunct Professor, Chief Physician, Deputy Director

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Argentina

**Manuscript submission date:** 2022-12-26

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-01-16 16:16

**Reviewer performed review:** 2023-01-23 15:00

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

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

Colorectal cancer (CRC) represents one of the most prevalent tumors worldwide. The tumor microenvironment (TME) through its proinflammatory role, among others, actively participates in CRC progression and the disturbance of gut microbiota (dysbiosis). Colorectal cancer stem cells (CCSC) are a tumor cell subpopulation that drives CRC initiation, progression and treatment failure. The paper is well arranged and the logic is clear, and. The cited literature is comprehensive and modern. The provided figure and tables are well composed and understandable. The quality of language of the manuscript is acceptable for me. So, I recommend to you that this manuscript may be accepted. There are some advices for author: 1) In addition to the impact on tumor microenvironment, does intestinal microbiota have an impact on the immune status of tumor patients? 2) Does intestinal microbiota affect the expression of PD-L1 in tumor?

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**Reviewer's code:** 05392119

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Argentina

**Manuscript submission date:** 2022-12-26

**Reviewer chosen by:** Dong-Mei Wang

**Reviewer accepted review:** 2023-01-31 07:54

**Reviewer performed review:** 2023-02-01 07:39

**Review time:** 23 Hours

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
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### SPECIFIC COMMENTS TO AUTHORS

The well established fecal microbiome transplantation (FMT) have been applied in CRC research and treatment. Please kindly search with term "fmt tme crc" for additional literature about it and add them.

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**Reviewer's code:** 03270754

**Position:** Editorial Board

**Academic degree:** MD, PharmD, PhD

**Professional title:** Assistant Professor, Associate Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Argentina

**Manuscript submission date:** 2022-12-26

**Reviewer chosen by:** Dong-Mei Wang

**Reviewer accepted review:** 2023-02-01 01:25

**Reviewer performed review:** 2023-02-08 12:26

**Review time:** 7 Days and 11 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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## SPECIFIC COMMENTS TO AUTHORS

1.This research focused on How the interplay among the tumor microenvironment and the gut microbiota influence the stemness of colorectal cancer cells, after check the pubmed,there are not similar articles , so was very innovative. 2.The topic of this manuscript fall within the scope of the journal, focus on stem cells. 3.There are so many studies identified that gut microbiota and its metabolites on the host immune system and the formation of TME, but how TME effect on gut microbiota? Also the same question how CCSC effect on gut microbiota? 4.In table 2, tole molecular subtypes (CMS) of CRC>100% 5.Figure 2 I think not very clear and cannot represent the relationship between each other clearly.