



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 71591

Title: Wumei pills attenuates 5-fluorouracil-induced intestinal mucositis through Toll-like receptor 4/myeloid differentiation factor 88/nuclear factor- κ B pathway and microbiota regulation

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00039368

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Academic Research, Associate Professor

Reviewer's Country/Territory: Estonia

Author's Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-09-21 07:57

Reviewer performed review: 2021-09-22 11:51

Review time: 1 Day and 3 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection



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Re-review	<input type="checkbox"/> Yes <input checked="" 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

This is a well-designed, performed and written animal experimental study for the evaluation of possible role of Wumei Pills, as traditional Chinese medicine, on attenuation of intestinal mucositis induced by 5-fluoracil via TLR4/MyD88/NF-kB pathway and regulation of microbiota. The authors aimed to study the possible mechanism of effect of Wumei Pills on inflammation, intestinal mucosal barrier, and intestinal microbiota in mice model of chemotherapy-induced intestinal mucositis (CIM). The authors found that Wumei pills can activate the NF-kB pathway, inhibit the expression of TLR4/MyD88/NF-kB protein, which results in the down-regulation of inflammatory factors and increase the expression of tight junction proteins. Important results are that Wumei Pills could regulate the intestinal microflora and increase the content of short-chain fatty acids. This experimental study is important in point of view of possible further clinical studies. After revision I am satisfied with corrections needed to be complete, however in paragraph concerning "Alcian blue staining analysis" is still written that "The paraffin sections were dewaxed with water" which is incorrect!