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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

Ms: 2168

Title: Bone Marrow Mesenchymal Stem Cells Alleviate 2, 4, 6-Trinitrobenzene (TNBS)-Induced Colitis in Mice by Inhibiting Inflammatory Cytokines and Modulating Autoimmune Responses

Reviewer code: 00503120

Science editor: h.h.zhai@wjgnet.com

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS

COMMENTS TO AUTHORS:

In this manuscript the authors studied the influence of bone marrow stem cells on colitis. Transplantation (i.v.) of MSCs isolated from GFP-C57BL/6 mice (Fig. 1) resulted in homing in inflamed colon of Balb/c mice (Fig. 2), resulting attenuation of TNBS-induced colitis (Fig. 3). MSC transplanted mice showed an increase in Ki67+ proliferating cells (Fig. 4) with a decrease in Th1/Th17 responses (Fig. 5, 6, 8) and an increase in Th2/Treg response in the inflamed site (Fig. 7, 9). This is an interesting study showing the mechanisms by which MSCs attenuate colitis. However, the direct contribution of transplanted MSCs in Ki67+ proliferation assay in figure 4 and the data showing an increase in IL-4, IL-10, TGF- β and Foxp3 in inflamed tissue is not expressed in transplanted MSCs, but in infiltrating immune cells. The manuscript has many typo and grammatical errors. The labeling in some figures is small and the resolution is poor.