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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 34625

Title: Dextran Sodium Sulfate Colitis Murine Model: An Indispensable Tool for Advancing Our Understanding of Inflammatory Bowel Disease Pathogenesis

Reviewer's code: 02440884

Reviewer's country: Germany

Science editor: Ze-Mao Gong

Date sent for review: 2017-05-12

Date reviewed: 2017-05-13

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The excellent review gives an overview about DSS colitis with strong implications to IBD pathophysiology. Comments 1. IBD associated dysplasia in the DSS model should be addressed.



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Name of journal: World Journal of Gastroenterology

Manuscript NO: 34625

Title: Dextran Sodium Sulfate Colitis Murine Model: An Indispensable Tool for Advancing Our Understanding of Inflammatory Bowel Disease Pathogenesis

Reviewer's code: 02446483

Reviewer's country: Canada

Science editor: Ze-Mao Gong

Date sent for review: 2017-05-12

Date reviewed: 2017-05-17

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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 checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Interesting work, but more clarity is necessary in the manuscript and the number of tables and figure need to be increased to 5 and 10, respectively. It needs to be clarifying and instructional!



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Name of journal: World Journal of Gastroenterology

Manuscript NO: 34625

Title: Dextran Sodium Sulfate Colitis Murine Model: An Indispensable Tool for Advancing Our Understanding of Inflammatory Bowel Disease Pathogenesis

Reviewer's code: 02941504

Reviewer's country: China

Science editor: Ze-Mao Gong

Date sent for review: 2017-05-12

Date reviewed: 2017-05-22

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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 checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The DSS-induced colitis model is the most classic model to explore the mechanism of IBD. They had preferably stated the pathogenesis of the DSS-induced colitis in the present article. However, I have server suggestions as followed. 1. PATHOPHYSIOLOGY OF IBD should be revised into "PATHOPHYSIOLOGY OF DSS-INDUCED COLITIS, So, main contents included Genetics, Microbiome and Dysbiosis and pathological change were happen in DSS-induced colitis. 2. I think that effect of DSS on the immune response should be solely showed in this paper, which the late advances are included systemic immune, humoral immunity and mucosal immunity and so on. 3. The methods of chronic and relapsing DSS-induced colitis are not demonstrated.



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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 34625

Title: Dextran Sodium Sulfate Colitis Murine Model: An Indispensable Tool for Advancing Our Understanding of Inflammatory Bowel Disease Pathogenesis

Reviewer's code: 02821831

Reviewer's country: Algeria

Science editor: Ze-Mao Gong

Date sent for review: 2017-05-12

Date reviewed: 2017-05-24

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The authors report that the DSS colitis model in IBD research has advantages due to its rapidity, simplicity, reproducibility and controllability. The authors describe the impact of using this model on the function of the intestine, the effects of mucin on the development of colitis, the alterations observed in microbial balance. The authors report the relationship between the metabolome changes in this murine model and the pathogenesis of IBD. The paper is interesting. It is well written. I suggest that the authors must cite and analyse some studies conducted in this sense. Abelouhab et al, 2012; Toumi et al, 2014, Soufli et al, 2015, 2016. I suggest a minor revision.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 34625

Title: Dextran Sodium Sulfate Colitis Murine Model: An Indispensable Tool for Advancing Our Understanding of Inflammatory Bowel Disease Pathogenesis

Reviewer's code: 00055095

Reviewer's country: Hungary

Science editor: Ze-Mao Gong

Date sent for review: 2017-05-12

Date reviewed: 2017-05-26

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
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<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
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		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Review of the ms "Dextran Sodium Sulfate Colitis Murine Model: An Indispensable Tool for Advancing Our Understanding of Inflammatory Bowel Disease Pathogenesis" by Derrick D. Eichele and coworker. This review paper provides a good overview of the subject, and gives basic science and clinical perspectives, clearly and well-written (although in some parts there is a lack of continuity between the sentence formations without any proper flow: "These models have become an indispensable tool to elucidate the histopathological, immunological and morphological changes in the intestinal tract and potential therapeutic targets. These various models..."). There are some minor typos and formatting errors (e.g. missing page numbers) as well, but as a whole it is valuable work which discusses correctly the main results previously published on the subject. Indeed, there are exhaustive reviews on the same topic but in this communication the authors provided an updated and concise summary of less known aspects of human IBD in relationship with murine colitis models, including DSS colitis.