

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 52255

Title: Kynurenine Plays an Immunosuppressive Role in 2,4,6-Trinitrobenzene Sulfate-Induced Colitis in Mice

Reviewer's code: 03408355

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Research Scientist

Reviewer's country: China

Author's country: Japan

Manuscript submission date: 2019-11-05

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2019-12-03 01:24

Reviewer performed review: 2019-12-03 01:26

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

No further comments.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
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- ☐ No

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Manuscript NO: 52255

Title: Kynurenine Plays an Immunosuppressive Role in 2,4,6-Trinitrobenzene Sulfate-Induced Colitis in Mice

Reviewer's code: 02456959

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor, Professor

Reviewer's country: China

Author's country: Japan

Manuscript submission date: 2019-11-05

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2019-12-14 14:22

Reviewer performed review: 2019-12-15 08:04

Review time: 17 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
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			Conflicts-of-Interest:
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			<input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

Tashita C et al (Manuscript Number: 52255) conduct one study to evaluate the “Role of kynurenine in TNBS-induced colitis”. This work wants to investigate the role of kynurenine 3-monooxygenase (KMO) in TNBS-induced colitis and the involvement of Trp metabolites in the maintenance of intestinal homeostasis using male KMO^{+/+} or KMO^{-/-} mice. The authors’ results indicated that “KMO deficiency reduced TNBS-induced colitis, resulting in an increased frequency of Foxp3⁺Treg cells and increased mRNA and protein levels of anti-inflammatory cytokines, including TGF- and IL-10”, and suggested that Kynurenine may play a therapeutic role in colon protection during colitis. This finding is interesting because a new treatment site or pathway was revealed for inflammatory bowel disease (IBD), such as Crohn’s disease (CD) and ulcerative colitis (UC), is characterized by chronic intestinal inflammation leading to damage to the intestinal mucosa. The results and conclusions of this study have important theoretical and clinical significance, and worth promoting and further clinical validation in patients with inflammatory bowel disease. The content of the article is corresponding well to the title. This work reported here is interesting. The quality of logic and presentation of the key idea, experiment design, data analysis and discussion are good. I recommend publishing this work. However, the following minor modifications need be done: 1) The experimental results must be shown according to the order of the research methods. 2) It is suggested that use graphs or tables to show results as much as possible, and reduce text descriptions. 3) Please delete the redundancy sentences when the tables or figures have clearly showed the same information, and the value of the statistical analysis should be written in the corresponding graphs and tables (such as, $p=?$ and $t=?$ and so on) for multiple or pair-wise comparisons test. 4) On the section of Discussion, the main findings,



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limitations, and authors' insights should be present more clearly and shortly. 5) The Table, Figure, Reference, and special symbols must fit the journal's requirements or format.

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ The same title
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