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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 52667

Title: Protective effects of panax notoginseng saponin on dextran sulfate sodium-induced colitis rats through PI3K / AKT signal pathway inhibition

Reviewer's code: 01587889
Position: Editorial Board
Academic degree: MD, MSc, PhD
Professional title: Associate Professor, Lecturer, Surgeon
Reviewer's country: United States
Author's country: China

Manuscript submission date: 2019-11-12
Reviewer chosen by: Jin-Zhou Tang
Reviewer accepted review: 2019-11-30 20:21
Reviewer performed review: 2019-11-30 20:30
Review time: 1 Hour

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[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced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

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SPECIFIC COMMENTS TO AUTHORS

Qingge Lu et al. aimed to explore the protective effects of PNS on rats against DSS-induced intestinal inflammatory injury through PI3K / AKT signal pathway inhibition. Colitis rat models were constructed through DSS induction, and the rats were divided into a control group, a DSS group, a DSS+PNS 50mg/k group, and a DSS+PNS 100mg/kg group. The intestinal injury, oxidative stress parameters, inflammatory indexes, tight junction proteins, apoptosis, macrophage polarization, and TLR4 / NFκB signal pathway of colon tissues in the four groups were detected. The PI3K/AKT signal pathway in colon tissues of the rats was intervened using the PI3K/AKT signal pathway inhibitor, LY294002. They observed that PNS protected rats against DDS-induced intestinal inflammatory injury by inhibiting PI3K / AKT signal pathway, and therefore, they pointed out, it may be used as a potential drug for colitis because it exerted with good inhibitory effects on inflammation in DDS-induced colitis. Please note that DDS-induced colitis in animal may not reflect the same mechanism in intestinal inflammation in humans. This is because the nature history of DDS-induced colitis is due to mucous trauma which is very different from human's colitis which is "antibody-antigen reaction-against the mucous resistance of the individual patient".

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

[ ] The same title

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[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 52667

Title: Protective effects of panax notoginseng saponin on dextran sulfate sodium-induced colitis rats through PI3K / AKT signal pathway inhibition

Reviewer's code: 02520845
Position: Editorial Board
Academic degree: PhD
Professional title: Professor
Reviewer's country: Croatia
Author's country: China

Manuscript submission date: 2019-11-12

Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2019-11-29 15:02

Reviewer performed review: 2019-12-11 21:54

Review time: 12 Days and 6 Hours

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

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SPECIFIC COMMENTS TO AUTHORS

ESPS Manuscript NO: 52667 Title: Protective effects of panax notoginseng saponin on dextran sulfate sodium-induced colitis rats through P13K/AKT signal pathway inhibition General comments The authors described the effect of panax notoginseng saponin on experimentally induced colitis rats suggesting the possible mechanism of its protective effect. Title: It reflects the major topics and contents of the study. Abstract: It gives a clear delineation of the research objective and the results. Material and methods: The experimental model, study design and methods are well described. Appropriate statistical methods are selected. Results & Discussion: The data is clearly presented but results are organized in many small paragraphs that decreased the significance of the obtained results. Therefore, I suggest putting the main results into a few paragraphs. The discussion is well organized. Tables & Figure: Reflects the major findings. In conclusion, this is a very interesting research, which provides a novel therapeutic in the treatment of the inflammatory bowel disease.

INITIAL REVIEW OF THE MANUSCRIPT

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[ ] Plagiarism

[Y] No