

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47007

Title: Systems pharmacology approach reveals protective mechanisms of Jian-Pi Qing-Chang decoction on ulcerative colitis

Reviewer's code: 01587889

Reviewer's country: United States

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-03 14:11

Reviewer performed review: 2019-03-03 14:48

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 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:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Chen YL, et al. Jian-Pi Qing-Chang decoction protects against UC is a holistically analysed the mechanisms of drug actions of JPQC. The authors retrieved the compounds information on the TCMSP database for nine medicinal herbs (Astragali Mongholicus,



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Codonopsis Pilosula, Portulaca Oleracea L, Radix Sanguisorbae, Panax Notoginseng, Bletillae Rhizoma, Radix Aucklandiae, Coptis Chinensis and Radix Glycyrrhizae. Oral bioavailability and drug-likeness were used to predict the active substances. A total of 101 potential compounds with oral bioavailability $\geq 20\%$ and drug-likeness ≥ 0.18 were obtained from the herbal constituents of JPQC; moreover, six typical compounds with lower oral bioavailability or drug-likeness values were manually selected owing to their extensive biological and pharmacological activities. Finally, 107 compounds were considered putative for further analyses. This is good attempt which indicates that JPQC could improve the mucosal inflammatory response and intestinal epithelial barrier function via the NF- κ B/HIF-1 α signalling pathway, which provide new perspectives on the pharmaceutical development and clinical practice of TCM.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47007

Title: Systems pharmacology approach reveals protective mechanisms of Jian-Pi Qing-Chang decoction on ulcerative colitis

Reviewer's code: 00068625

Reviewer's country: Poland

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-04 10:04

Reviewer performed review: 2019-03-04 10:09

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The work is interesting and potentially important in the treatment of ulcerative colitis. The topics are covered very well and thoroughly. The paper is organized in a clear and easy to understand manner, however the Discussion section reiterate some findings



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already presented whereas one would expect a personal interpretation of the results and some suggestions to move forward. To sum up, the work provides novel information and deserves publishing after minor essential improvements.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ Plagiarism
- ☒ No

BPG Search:

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☒ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47007

Title: Systems pharmacology approach reveals protective mechanisms of Jian-Pi Qing-Chang decoction on ulcerative colitis

Reviewer's code: 03474080

Reviewer's country: Turkey

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-04 06:31

Reviewer performed review: 2019-03-10 12:10

Review time: 6 Days and 5 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Dear Authors, I read your manuscript titled "Systems pharmacology approach reveals protective mechanisms of Jian-Pi Qing-Chang decoction on UC". The effects of JPQC were evaluated on the DSS-induced (murine) colitis and on the cell culture in terms of



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molecular pathways of inflammation in the colitis. Protective effects of JPQC on murine colitis were demonstrated at the molecular level such as NF- κ B/HIF-1 α signalling pathways. Also, study suggested a new and novel system pharmacology method in the new drug development from traditional herbal medicine. Overall it is a globally good presented and novel study with an interesting topic. Abstract was well described and clear. The study is well designed and conducted. Methods are well described and clear. Conclusions are justifiable and prudent enough. The Authors briefly disclosed the limitations and future directions. It can be acceptable for publication. Thanks in advance.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47007

Title: Systems pharmacology approach reveals protective mechanisms of Jian-Pi Qing-Chang decoction on ulcerative colitis

Reviewer's code: 03017551

Reviewer's country: Poland

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-04 07:33

Reviewer performed review: 2019-03-11 11:17

Review time: 7 Days and 3 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:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

First - these are very interesting research Second - new methods of treatment on UC

Third - they can provide new perspectives for development and clinical practice of TCM (traditional Chinese medicine)



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BPG Search:

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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47007

Title: Systems pharmacology approach reveals protective mechanisms of Jian-Pi Qing-Chang decoction on ulcerative colitis

Reviewer's code: 02998194

Reviewer's country: Greece

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-03-05 20:20

Reviewer performed review: 2019-03-12 10:28

Review time: 6 Days and 14 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 checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input 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:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a comprehensive study that fulfils its aim, which is to demonstrate the influence of JPQC on UC. It needs minor revision and language polishing of the introduction and enrichment of the discussion. The results need to be better and more clearly stratified.



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The results of the abstract are not clearly shown. CytoNCA, IMDM, ClueGO are not clearly explained

INITIAL REVIEW OF THE MANUSCRIPT

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BPG Search:

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- ☒ No