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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 53842

Title: Folic acid attenuates high-fat diet-induced steatohepatitis via deacetylase SIRT1-dependent restoration of PPARα

Reviewer's code: 00503536
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Doctor
Reviewer's Country/Territory: Japan
Author's Country/Territory: China

Manuscript submission date: 2019-12-31
Reviewer chosen by: Ruo-Yu Ma
Reviewer accepted review: 2020-01-04 09:17
Reviewer performed review: 2020-01-05 01:32
Review time: 16 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[Y] Grade B: Very good	[Y] 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[ ] Grade E: Do not publish		[ ] Rejection	[Y] Advanced
			[ ] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

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SPECIFIC COMMENTS TO AUTHORS

The manuscript written by Feng-Zhi Xin analyzed the effect of folic acid on the fatty metabolism in the liver. Administration of folic acid to the rats with high-fat diet attenuates steatosis, and the molecular mechanisms for the effect were analyzed. Moreover, changes in the composition of gut microbiota were analyzed and restored diversity was observed, which contributes the improvement of endotoxemia leading to decrease in the levels of proinflammatory proteins in the liver. The study is well-organized and the overall data demonstrate a potential treatment of folic acid for NAFLD. However there are some concerns that need to be addressed. Minor points 1. In patients with NAFLD, lower percentage of Bacteroidetes and higher levels of Prevotella and Porphyromonas species compared to healthy controls are reported. Therefore, it would be better that not only diversity of gut microbiota but also changes in the specific bacterial species could be analyzed. 2. In the group of folic acid, serum levels of fasting blood glucose were significantly decreased compared with high-fat group. Because diabetes mellitus is associated with fatty liver, the role of amelioration of glucose metabolism in the preferable effect for NAFLD should be discussed.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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[Y] No

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RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 53842

Title: Folic acid attenuates high-fat diet-induced steatohepatitis via deacetylase SIRT1-dependent restoration of PPARα

Reviewer's code: 00503536
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Doctor
Reviewer's Country/Territory: Japan
Author's Country/Territory: China

Manuscript submission date: 2019-12-31
Reviewer chosen by: Yu-Qiao Wang
Reviewer accepted review: 2020-03-31 03:45
Reviewer performed review: 2020-04-04 10:14
Review time: 4 Days and 6 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[Y] Grade B: Very good	[Y] Grade B: Minor language polishing	[Y] Accept (General priority)	[Y] Anonymous
[ ] 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

None

INITIAL REVIEW OF THE MANUSCRIPT

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[Y] No

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[ ] The same title

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[ ] Plagiarism

[Y] No