

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50972

Title: Mitochondrial Metabolomic Profiling for Elucidating the Alleviating Potential of Polygonatum kingianum against High-Fat Diet-Induced Nonalcoholic Fatty Liver Disease

Reviewer's code: 00503486

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's country: United States

Author's country: China

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-09-02 16:22

Reviewer performed review: 2019-09-02 16:48

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input checked="" 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 type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input checked="" 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 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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Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-223-8242
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

SPECIFIC COMMENTS TO AUTHORS

This is an important manuscript that should be published.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50972

Title: Mitochondrial Metabolomic Profiling for Elucidating the Alleviating Potential of Polygonatum kingianum against High-Fat Diet-Induced Nonalcoholic Fatty Liver Disease

Reviewer's code: 00503536

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor

Reviewer's country: Japan

Author's country: China

Reviewer chosen by: Jin-Zhou Tang

Reviewer accepted review: 2019-09-12 11:47

Reviewer performed review: 2019-09-16 05:26

Review time: 3 Days and 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 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 checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

The manuscript written by Wei J-D et al. analyzed the mechanism of Polygonatum kingianum (PK) for alleviating high-fat diet (HFD)-induced nonalcoholic fatty liver disease (NAFLD). They performed ultra-high performance liquid chromatography/mass spectrometry and analyzed the mitochondrial metabolomics profiling. They found that PK can alleviate HFD-induced NAFLD by regulating riboflavin metabolism, increasing flavin mononucleotide content and further improving mitochondrial functions. Since NAFLD is a disease that become a serious health problem in many countries, the data are important. However, there are some concerns that need to be addressed. Major points, 1. PK might contain lots of bioactive component besides polysaccharides. If there are candidate ingredients for alleviating NAFLD, they should be discussed and mentioned. 2. All the figures are difficult be understood, and should be explained in more detail. Minor points, 1. Histological effect of PK should be shown. 2. Differences between PK and simvastatin should be explained.

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ Plagiarism
- ☒ No

BPG Search:

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- ☐ Duplicate publication



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[] Plagiarism

[Y] No