



**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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#### **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



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**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**

### ***Google Search:***

- The same title
- Duplicate publication
- Plagiarism
- No

### ***BPG Search:***

- The same title
- Duplicate publication



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