

PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 42037

Title: The new findings showing how DNA methylation influences diseases

Reviewer's code: 00631847

Reviewer's country: Taiwan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-09-06

Date reviewed: 2018-09-06

Review time: 8 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

It is a very interesting review concerning the methylation of DNA which could occur in different methylation patterns at various stages of cell differentiation from normal to stem cells or various disease status. It is very helpful for the readers and should be published.



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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 Biological Chemistry

Manuscript NO: 42037

Title: The new findings showing how DNA methylation influences diseases

Reviewer's code: 00291404

Reviewer's country: United States

Science editor: Xue-Jiao Wang

Date sent for review: 2018-09-06

Date reviewed: 2018-09-06

Review time: 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 type="checkbox"/> Grade B: Very good | <input type="checkbox"/> Grade B: Minor language | (High priority) | <input 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: |
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| | | <input type="checkbox"/> Rejection | <input type="checkbox"/> General |
| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

The authors have tried to summarize the recent findings on how DNA methylation affect disease. The topic is very interesting, yet the content and writing style need some improvements. 1. The abstract is really bad and needs a complete revision, with concise, more accurate statement on what recent studies have found DNA methylation



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affect human diseases. 2. There have been a lot of knowledge on how DNA methylation affect the genesis, progression of cancer, and how epigenetic drugs can be used to treat cancer. This area, in theory, should be an essential part of this Editorial. Yet, due to the fact that the authors are not working in the field and thus not familiar with the development, the discussion on such important area is non-existent. 3. Page 4, without any introduction, the authors started talking about the epimutations. The regular epigenetic modifications in stem cells, during differentiation, and in various differentiated cells are not “epimutations”. Please clarify the point.

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