

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Stem Cells*

**Manuscript NO:** 76486

**Title:** The metabolic-epigenetic nexus in regulation of stem cell fate

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05923889

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Consultant Physician-Scientist, Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-03-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-03-19 02:56

**Reviewer performed review:** 2022-03-27 01:59

**Review time:** 7 Days and 23 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

#### **SPECIFIC COMMENTS TO AUTHORS**

1.The problem of inadequate citation of references in some sentences needed to be improved. 2.“The potential preventive and therapeutic strategies via targeting metabolites were discussed as well.” In terms of this subject, the authors had a insufficient discussion in the manuscript, further relevant contents should be added. “In summary, NAD<sup>+</sup> plays a key role in a diverse array of biological processes.” Please improved the content that focus of the main subject.

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**Peer-review model:** Single blind

**Reviewer's code:** 05743300

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Honorary Research Fellow

**Reviewer's Country/Territory:** Czech Republic

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-03-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-04 14:12

**Reviewer performed review:** 2022-04-04 14:15

**Review time:** 1 Hour

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

None

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**Peer-review model:** Single blind

**Reviewer's code:** 05769197

**Position:** Peer Reviewer

**Academic degree:** MSc, PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** Germany

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-03-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-05 15:40

**Reviewer performed review:** 2022-04-14 07:54

**Review time:** 8 Days and 16 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No

## SPECIFIC COMMENTS TO AUTHORS

The topic of the manuscript is very interesting and summarizes the current research interest of personalized nutrition/medicine. Although the importance of this topic, there few comments: 1) There are references missing, see point 3) Amino Acid metabolism- 3rd line, after maintenance. There are other places/gaps where references are missing. 2) grammatic - there are a lot of mistakes througout the manuscript, e.g. thirs person "s". 3) The classification/ division is not clear. In particular nucleotide metabolism is not mentioning ncRNAs, which might be regualted by nutrients. Folate and a-KG are mentioned in this section, wheres a-KG is refeared to the earlier section. Folate is involved in nucleotide metabolism, but rather it is a micronutrient and should be placed within this section. 4) Instead of microelement, I would call this section "micronutrients" 5) The conclusion is too short, I expected a better outlook and further direction of the topic.