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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 69417

Title: Urolithin A Improves Mitochondrial Function and Alleviates Oxidative Stress-Induced Senescence in Nucleus Pulposus-derived Mesenchymal Stem Cells through SIRT1/PGC-1a Pathway

Reviewer's code: 05319787

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2021-07-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-02 16:29

Reviewer performed review: 2021-07-12 06:46

Review time: 9 Days and 14 Hours

| Scientific quality | [] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish |
|--------------------|--|
| Language quality | [] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection |
| Conclusion | [] Accept (High priority) [] Accept (General priority) [] Minor revision [Y] Major revision [] Rejection |
| Re-review | [Y]Yes []No |
| Peer-reviewer | Peer-Review: [Y] Anonymous [] Onymous |



Baishideng **Publishing**

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statements

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

SPECIFIC COMMENTS TO AUTHORS

This manuscript investigated the effect of Urolithin A on Nucleus Pulposus-derived Mesenchymal Stem Cell. Authors found that UA could activate SIRT1/PGC-1a signal pathway to protect mitochondrial function, alleviate NPMSCs senescence and IDD. However, this manuscript needs improvements before acceptance. My opinions are as follows. 1. Please reconsider about the group name. 2. Please explain the reason why authors pick SR-18292 SIRT1/PGC-1a signal pathway as your target. 3. There needs to be more statistics to prove the conclusion in this article. For example, EdU alone is not enough to prove the change of cell proliferation. 4. Figure A-E is not right way to present the WB result. Besides, the fold change is not consistent among the four bar graphs. 5. Please write clearly about the brand and product code of antibodies you used in the method part.



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Reviewer's code: 03940557

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2021-07-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-02 09:41

Reviewer performed review: 2021-07-14 07:09

Review time: 11 Days and 21 Hours

| Scientific quality | [] Grade A: Excellent [Y] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish |
|--------------------|--|
| Language quality | [] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection |
| Conclusion | [] Accept (High priority) [Y] Accept (General priority) [] Minor revision [] Major revision [] Rejection |
| Re-review | []Yes [Y]No |
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Acceptable in present form.