

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 56860

Title: Stem cells from human exfoliated deciduous teeth ameliorate concanavalin A-induced autoimmune hepatitis by protecting hepatocytes from apoptosis

Reviewer's code: 00052643

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2020-05-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-06-01 11:44

Reviewer performed review: 2020-06-03 15:24

Review time: 2 Days and 3 Hours

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|---------------------------------|---|
| Scientific quality | <input type="checkbox"/> Grade A: Excellent <input checked="" 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 Grade E: Do not publish |
| Language quality | <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 |
| Conclusion | <input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Peer-reviewer statements | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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SPECIFIC COMMENTS TO AUTHORS

"Stem cells from human exfoliated deciduous teeth ameliorate concanavalin A-induced autoimmune hepatitis by protecting hepatocytes from apoptosis" is an interesting article. The matter is innovative. The study is well designed. Results are clear.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 56860

Title: Stem cells from human exfoliated deciduous teeth ameliorate concanavalin A-induced autoimmune hepatitis by protecting hepatocytes from apoptosis

Reviewer's code: 03812042

Position: Editorial Board

Academic degree: MSc, PhD

Professional title: Assistant Professor, Professor, Research Associate

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2020-05-31

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-08-04 09:49

Reviewer performed review: 2020-08-11 10:17

Review time: 7 Days

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|---------------------------------|---|
| Scientific quality | <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 |
| Language quality | <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 |
| Conclusion | <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 |
| Re-review | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Peer-reviewer statements | Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

In this paper the authors explored the effects of Stem cells from human exfoliated deciduous teeth (SHED) on Concavalin A-induced Autoimmune hepatitis in mice and in vitro experiments. Their results reveal that Stem cells from human exfoliated deciduous teeth (SHED) infusion alleviates ConA-induced acute liver injury via hepatocyte apoptotic inhibition mediated by the nuclear factor-kappa B (NF-κB) pathway. The paper is interesting but there are some important issues to address: 1) Even if in general the paper is clear and is well written, some points need to be described more in detail. Specifically results need to be more detailed and each panel of figures should be well explained. This is especially needed for the paragraph "SHED moderates ConA-induced acute liver injury in mice". 2) What mice constitute the control group? Mice without any treatment or mice injected with SHED cells? It is not described nor in Methods nor in Results. This is a very important point. 3) In the anatomical and histological examinations the analysis of SHED cells homing is missing. Where do the cells go? In what tissues and in what quantity? 4) Authors assert that their results showed that SHED alleviated liver damage by inhibiting the activation of T helper 1 cell-mediated inflammation. This can not be asserted, instead their results showed an immunomodulatory capacity of SHED cells and an inhibition of CD4 and CD8 T cells. 5) In vitro Results are interesting, but they have a different design compared to in vivo experiments. In the in vivo experiments SHED cells were injected 7 days before ConA treatment, instead in the in vitro experiments ConA treatment and SHED co-culture was performed at the same time. What happens if SHED cells were cocultured 7 day before the ConA treatment? This kind of control/experiment is missing.