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OPEN PEER REVIEW

# Evaluation of NLR Family CARD Domain Containing 3 and NLR Family CARD Domain Containing 5 Gene Expression in Interferon Gamma–Treated Mesenchymal Stem Cells from Wharton's Jelly of Human Umbilical Cord

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## About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

More about open peer review: brieflands.com/knowledgebase/opr

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## 1 Original submission

3 comments · 5 Sep 2021 – 13 Sep 2021

### Associate Editor

MAJOR REVISION 5 Sep 2021

Dear Authors,
This study would be a valuable contribution to the existing literature. The reviewers have major concerns with the work presented. Please ensure that you address their comments.
Please find the comments of the reviewers listed below.

### Associate Editor

MAJOR REVISION 11 Sep 2021

Dear Author,
Thanks for submitting your manuscript entitled " Evaluation of NLRC3 and NLRC5 gene expression in IFN-γ treated mesenchymal stem cells from the Wharton's jelly of human umbilical cord" to the Gene, Cell, and Tissue journal.
I would like to inform you that the editorial team and a group of expert reviewers have assessed your submission, but some concerns were raised with regard to the figures, discussion, English writing, etc. Please see the attached reviewer comments for further details about necessary revisions.
I would like to invite you to revise the paper and resubmit the revised version of your manuscript for further review. Please note that your revised manuscript should be accompanied by a summary of your responses to the reviewers' comments.
Sincerely yours,

### Editor-in-Chief

MAJOR REVISION 13 Sep 2021

Based on the reviewers' comments and my reading of the manuscript, this manuscript needs major revisions, and the comments need to be addressed point by point.

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# Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear Editor

Subject: Evaluation of NLRC3 and NLRC5 gene expression in IFN-ɣ treated mesenchymal stem cells from the Wharton's jelly of human umbilical cord[118882]

Thank you for your email enclosing the reviewers' comments. We have carefully reviewed the comments and have revised the manuscript accordingly . Our responses are given in a point-by-point manner below. Changes to the manuscript are shown in bold.

We hope the revised version is now suitable for publication and look forward to hearing from you in due course.

Sincerely

Response to Reviewer:

Thank you for your review of our paper. We have answered each of your points below.

**1.The aim and background must to be in one paragraph**

**Corrections are highlighted in the manuscript.**

**2. Merge them in one paragraph and then reduce it.**

**Done.**

**3.Please do not use this form of verb In the material and methods.**

**All changes made in the manuscript are highlighted by yellow color.**

**4.Write more about the methods Reduce the introduction and add in the result section.**

**See response 3**

**5. Write more about the result This amount is so less.**

**Corrections are highlighted in the manuscript.**

**6. They key words have not to be in the tile and then sort them by alphebetialy.**

**Done. Corrections are highlighted in the manuscript.**

**7. Segregate it in 2 to 3 paragraph.**

**Done. Corrections are highlighted in the manuscript.**

8. Please use the new articles from 2015-2021

Done.

**Weiss, A.R.R. and M.H. Dahlke, Immunomodulation by Mesenchymal Stem Cells (MSCs): Mechanisms of Action of Living, Apoptotic, and Dead MSCs. Front Immunol, 2019. 10: p. 1191.**

**9. Write them in the bottom of the article as a abbreviation section.**

Done.

**10. Segregate it in 5 to 6 paragraphs.**

Done.

**11. Write more about the aim**

**Where is the article' aim**

**All changes made in this section are highlighted by yellow color.**

**12. Do you use the ethic**

**Ethical code added.**

**13. ref**

**Khatami, S.M., et al., Stem Cell Isolation from Human Wharton's Jelly: A Study of Their Differentiation Ability into Lens Fiber Cells. Cell J, 2014. 15(4): p. 364-71.**

**Wei, L., et al., Multiple injections of human umbilical cord-derived mesenchymal stromal cells through the tail vein improve microcirculation and the microenvironment in a rat model of radiation myelopathy. J Transl Med, 2014. 12: p. 246.**

**Szepesi, Á., et al., In Vitro Characterization of Human Mesenchymal Stem Cells Isolated from Different Tissues with a Potential to Promote Complex Bone Regeneration. Stem Cells Int, 2016. 2016: p. 3595941.**

**14. Put the RNA extracted figure here.**

**The Figure was added in this section.**

**15. ref**

**Wang, G., et al., Isolation of high quality RNA from cereal seeds containing high levels of starch. Phytochem Anal, 2012. 23(2): p. 159-63.**

**Rao, X., et al., An improvement of the 2ˆ(-delta delta CT) method for quantitative real-time polymerase chain reaction data analysis. Biostat Bioinforma Biomath, 2013. 3(3): p. 71-85.**

**16. write annealing temperature of primers.**

**Done( All changes made in the table are highlighted by yellow color.)**

**17. Which references do you use?**

**Write them**

**Kozera, B. and M. Rapacz, Reference genes in real-time PCR. J Appl Genet, 2013. 54(4): p. 391-406.**

**18. The confidence must to be 99 percent**

**Why do you use this confident?**

**CIs can be presented as 90% CI, 95% CI, 99% CI or any percentage (between 0% and 100%) CI of interest. Although 95% CI are commonly used in many applications, the choice of whether to use a 90% or 95% CI is somewhat arbitrary, and depends on the level of "confidence" that the investigator wishes to convey in his or her estimate.**

**19. Put the melt and Reproduction curve of reference and origin gene here**

**Melting curves were added to the manuscript.**

**20. Use the figures and tables in the article text and I will review it**

**The Figures were added in this section.**

**21. Compare your result with other results of researchers**.

**All changes made in the Discussion section are highlighted by yellow color.**

**22. Write all figures and tables in the article text and at the nearest section.**

**Done.**

## 2 Revision 1

4 comments · 9 Oct 2021 – 16 Oct 2021

**Bahman Fazeli-Nasab** Reviewer — ACCEPT 9 Oct 2021

All comments are listed in the article text.

**Referee 1** Reviewer — ACCEPT 11 Oct 2021

Dear Author
The revised manuscript has been improved and is coherent, and I wish the authors all the best.
Thank you so much for the invitation to review.
Regards

**Associate Editor** — ACCEPT 13 Oct 2021

Dear Author,
We have read your manuscript, “Evaluation of NLRC3 and NLRC5 gene expression in IFN-γ treated mesenchymal stem cells from the Wharton&rsquo's jelly of human umbilical cord”. The revisions that you made to the manuscript are very effective in addressing the remaining concerns. Our decision is to accept the manuscript for publication
in the journal Gene, Cell and Tissue. Please consider this letter notification of the formal acceptance of your manuscript. Thank you for your patience with the review process.

**Editor-in-Chief** — ACCEPT 16 Oct 2021

Based on the reviewer's and AE's comments, revisions were done well. Thus, this manuscript can be accepted for publication in GCT.