



**PEER-REVIEW REPORT**

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

**Manuscript NO:** 40966

**Title:** Anti-inflammatory potential of human corneal stroma-derived stem cells determined by a novel in vitro corneal epithelial injury model

**Reviewer's code:** 03551035

**Reviewer's country:** Romania

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-08-22

**Date reviewed:** 2018-08-23

**Review time:** 1 Day

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:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<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 manuscript by Orozco et al. discusses the anti-inflammatory potential of human corneal stroma-derived stem cells. This is a well-written, highly informative manuscript; the authors have addressed an important topic, namely the use of adult stem cells to



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restore the corneal epithelium. Indeed, progress in corneal stem cell research provides encouraging perspectives regarding their use in regenerative medicine. Moreover, stem cell-based approaches hold the potential to combat the worldwide shortage of donor corneas. The editing of manuscript needs to be revised. Non-standard abbreviations should not be employed in the abstract; however, if used, abbreviations would need to be spelled out in full at first use. I recommend this paper for publication after suggested revisions.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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

**Manuscript NO:** 40966

**Title:** Anti-inflammatory potential of human corneal stroma-derived stem cells determined by a novel in vitro corneal epithelial injury model

**Reviewer’s code:** 02446101

**Reviewer’s country:** China

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-09-04

**Date reviewed:** 2018-09-07

**Review time:** 2 Days

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 checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 type="checkbox"/> General
			<input checked="" type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

**SPECIFIC COMMENTS TO AUTHORS**

The manuscript illuminates that an in vitro injury model was developed using hCEC culture, allowing the initial testing into the anti-inflammatory potential of CSSC. Additional information about identification of CSSC is needed.



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**PEER-REVIEW REPORT**

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

**Manuscript NO:** 40966

**Title:** Anti-inflammatory potential of human corneal stroma-derived stem cells determined by a novel in vitro corneal epithelial injury model

**Reviewer's code:** 00504335

**Reviewer's country:** Ukraine

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-09-04

**Date reviewed:** 2018-09-10

**Review time:** 6 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" 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 polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer's expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Minor revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

**SPECIFIC COMMENTS TO AUTHORS**

The authors described a new in vitro model for testing of effects of corneal stroma-derived stem cells (CSSC) on corneal epithelial cell line (hCEC). The manuscript represents preliminary studies summarizing basic results. It looks like a description of



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results for diploma work or thesis (description of results of testing four different media, detailed description of fixation of amniotic membrane, etc). A simple statement that four different media were tested and one was used for next study should be sufficient. Similarly, description of history of amniotic membrane in Introduction is not necessary. Everybody in ophthalmology, who is interested in this work, knows well amniotic membrane. Details: 1. Abbreviations CSSC and AM must be explained in the first sentence of Abstract. 2. M and M, paragraph Co-culture: How many hCES were seeded per well, also the volume of medium should be provided. 3. Hours should be written in the same way. Somewhere is hours, in other sentences h (see for example legend to Fig. 2). 4. Could authors exclude a possibility that cytokines in supernatants (Fig. 7) of co-culture experiments are produced by CSSC under influence of hCEC and not by hCEC? 5. Authors showed that co-cultivation of EtOH injured hCEC with CSSC significantly decreased toxicity and improved hCEC viability. Could authors speculate about the mechanism of this protective effect of CSSC? 6. More recent references (2017/2018) could be included. 7. References must be checked and corrected by the authors. The majority of names of journals are in a full form, other (as ref. 16) are in abbreviated form.

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