

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12775

Title: Limbal stem cells – central concepts of corneal epithelial homeostasis

Reviewer code: 02520943

Science editor: Ling-Ling Wen

Date sent for review: 2014-07-26 22:43

Date reviewed: 2014-08-04 18:17

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

The authors report an interesting review on the current concepts of corneal epithelial homeostasis and controversy surrounding the existence of a secondary stem cell reservoir on the corneal surface. It has many good features including comprehensive tabulation of the models currently published in the literature. It also deals with the identification of specific markers that allow the isolation and characterization of limbal stem cells. The review has a scholarly nature, especially in the final two thirds. The abstract and introduction are more disappointing. The abstract is too long and the first part of the introduction needs to be rewritten in order to be more concise. In conclusion, the review is concise and informative, and offers an interesting highlight the current state of the field.

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12775

Title: Limbal stem cells – central concepts of corneal epithelial homeostasis

Reviewer code: 02864228

Science editor: Ling-Ling Wen

Date sent for review: 2014-07-26 22:43

Date reviewed: 2014-08-06 19:53

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> [Y] Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Yoon, Ismail and Sherwin carry out a very interesting review about limbal stem cells, focused in several controversial concepts and actual and classical evidences for the behavior of theses cells. The authors performed a wide description of some current issues that are considered crucial for understanding the dynamics of how limbal stem cells behave - not yet well understood - and certain events related to regeneration of corneal epithelium. From the point of view of update, the review is very well focused and due to some controversial aspects, the authors maintain evidence to open reflection and discussion. Regarding this fact very few critical and major comments can be made. We think it is an interesting critical review related to the field of ocular surface regeneration is believed to be correct with respect to its contents. The authors achieved a quite concise approach for the relevant facts in these events. Major comments None Minor comments 1. Page 3, 3rd paragraph: introduce symbol delta in $\Delta Np63\alpha$. 2. Page 3, last line: please substitute In vivo by in vivo. 3. Page 7, line 5 from the end of the page: substitute cytokeratin19 by cytokeratin 19; cytokeratin3 by cytokeratin 3.

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12775

Title: Limbal stem cells – central concepts of corneal epithelial homeostasis

Reviewer code: 00505064

Science editor: Ling-Ling Wen

Date sent for review: 2014-07-26 22:43

Date reviewed: 2014-08-07 11:17

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Very nicely written review.



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ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12775

Title: Limbal stem cells – central concepts of corneal epithelial homeostasis

Reviewer code: 00504335

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

It is well written review and can be published (after small amendements) as it is.