



ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12919

Title: Evaluating alternative stem cell hypotheses for adult corneal epithelial maintenance

Reviewer code: 00753131

Science editor: Fang-Fang Ji

Date sent for review: 2014-07-29 22:16

Date reviewed: 2014-08-13 03:01

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"/> [Y] Grade B: Very good	<input type="checkbox"/> [Y] 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	BPG Search:	<input type="checkbox"/> [] Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> [] Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The authors review all prevalent hypothesis about corneal stem cells rendering it a timely and pertinent review. However, the manuscript necessitates some editing. The authors use continuous sentences at places which will be best to divided into smaller sentences and refer them as is. An example is: "The TACs move centripetally to the centre of the cornea in the basal layer of the corneal epithelium and also replenish cells in the overlying suprabasal layers. According to this limbal epithelial stem cell (LESC) hypothesis the LESCs maintain the corneal epithelium during normal homeostasis and become more active to repair significant wounds." This can be written as: "The TACs move centripetally to the centre of the cornea in the basal layer of the corneal epithelium and also replenish cells in the overlying suprabasal layers. The limbal epithelial stem cell (LESC) hypothesis conjectures that the LESCs maintain the corneal epithelium during normal homeostasis and become more active to repair significant wounds." "Several types of evidence are inconsistent with maintaining the corneal epithelium completely without stem cells so we reject this possibility" Rejection is a rather strong word. Authors should rephrase the sentence to emphasize that the hypothesis is inconsistent with the available evidence. There statement is valid without "so we reject this possibility" as well. Authors should lightly edit the manuscript to render it more scientific.



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ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12919

Title: Evaluating alternative stem cell hypotheses for adult corneal epithelial maintenance

Reviewer code: 00505250

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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	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

West and colleagues provide an excellent informative review on corneal stem cells and I would recommend publication in its current form.



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ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> 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	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is an interesting review of two alternative stem cell hypotheses for adult corneal epithelial maintenance. I consider this study to have excellent data, and I commend it to EiC for publication without changes.