



**ESPS PEER-REVIEW REPORT**

**Name of journal:** World Journal of Experimental Medicine

**ESPS manuscript NO:** 15735

**Title:** ENDOTHELIUM-DERIVED ESSENTIAL SIGNALS INVOLVED IN PANCREAS ORGANOGENESIS

**Reviewer’s code:** 00069130

**Reviewer’s country:** United States

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2014-12-06 22:34

**Date reviewed:** 2015-01-13 12:36

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	PubMed Search:	<input type="checkbox"/> [ Y] Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> [ Y] Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> [ ] High priority for publication
<input type="checkbox"/> [ Y] Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> [ ] Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> [ ] Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> [ Y] No	<input type="checkbox"/> [ ] Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> [ Y] Plagiarism	
		<input type="checkbox"/> [ ] No	

**COMMENTS TO AUTHORS**

Thank you for the opportunity to review the manuscript submitted to WJG titled ENDOTHELIUM-DERIVED ESSENTIAL SIGNALS INVOLVED IN PANCREAS ORGANOGENESIS ' by Dodanim Talavera-Adame and Donald C. Dafoe, California, USA. The authors review the role of endothelial cell in differentiation and organogenesis of pancreas. This is a relevant and ‘hot’ topic pertinent to the clinical and basic research community alike. The topic is a relevant because transplantation of b-cells can potentially cure type 1 DM and might be helpful to some extent in type 2 DM as well. Cell polarity, orientation and integration into the host cellular environment are important for the proper function of the transplanted b-cells. Co-culture of differentiating b-cells with endothelial cells might improve the efficiency of differentiation process. May be endothelial cells are helpful in pancreatic organoid formation. Co-transplantation of endothelial cells may improve the success of transplantation. There are a lot of unanswered questions. The review is well written, However the authors may add few illustrations on the early cell-cell communications, migrations and relevant details of the niche during various stages of differentiation. This will make the review more



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attractive and easy to understand. A brief history and review of the angiocrine signals and a table of angiocrine factors and their role may be included. There are a few spelling mistakes-authors need to check the manuscripts for spelling mistakes (Example third line, page 9/28 stars instead of starts). The legends for figure-1 appears insufficient. Some more explanation is required. What is happening here? Methods-a very brief description, -days of culture etc, what is CD31, expansion of HMEC. I did not understand certain sentences-for example-"However, these islets contain cells that will reach maturity after islet robust vascularization that allows closer interaction with ECs even before blood circulation is present" (page 6/28). It is not clear what authors are trying to convey. The manuscript may be accepted after some amount revision-there is room for improvement.



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**Title:** ENDOTHELIUM-DERIVED ESSENTIAL SIGNALS INVOLVED IN PANCREAS ORGANOGENESIS

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<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	PubMed Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

A good review to understand pancreatic regeneration. More figures to understand the roles of growth factors and extracellular matrix are needed.