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## PEER-REVIEW REPORT

**Name of journal:** World Journal of Hepatology

**Manuscript NO:** 37206

**Title:** Cell fusion in liver, revisited

**Reviewer's code:** 02440884

**Reviewer's country:** Germany

**Science editor:** Li Ma

**Date sent for review:** 2017-12-08

**Date reviewed:** 2017-12-08

**Review time:** 13 Hours

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" 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"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
		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

The excellent review gives an overview about cell fusion in liver. Comments 1. The important role of cyclins in cell division and their impact on cell fusion should be addressed.



**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Hepatology  
**Manuscript NO:** 37206  
**Title:** Cell fusion in liver, revisited  
**Reviewer’s code:** 00068723  
**Reviewer’s country:** Japan  
**Science editor:** Li Ma  
**Date sent for review:** 2017-12-08  
**Date reviewed:** 2017-12-09  
**Review time:** 1 Day

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input checked="" type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input checked="" 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**

The authors presented literatures on cell fusion in liver. Cell fusion is not relatively familiar phenomenon, but is promising and scientifically interesting. As the authors stated, transdifferentiation and cell fusion is still controversial. Classically, Thiese et al. reported that hematopoietic stem cells transdifferentiated to hepatocytes. The authors showed a hypothesis that macrophages fuse to hepatocytes. Also studies by Grompe et al were presented. It would be recommended that transdifferentiation be presented to show the same phenomenon explained with cell fusion. It would be appropriate to understand from point of transdifferentiation. Were there any literatures on in vitro experiments of cell fusion? If it were, it would be direct evidence of cell fusion regarding hepatocytes.