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## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 29151

**Title:** Regulation of hepatic microRNA expression by hepatocyte nuclear factor 4 alpha

**Reviewer's code:** 02860705

**Reviewer's country:** Italy

**Science editor:** Jin-Xin Kong

**Date sent for review:** 2016-08-02 11:40

**Date reviewed:** 2016-08-30 23:25

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> 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"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[ Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[ Y] No	

### COMMENTS TO AUTHORS

the manuscript result well written and clear. the experimental plan is clear and explain in a good manner the manuscript target.



**ESPS PEER-REVIEW REPORT**

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

**ESPS manuscript NO:** 29151

**Title:** Regulation of hepatic microRNA expression by hepatocyte nuclear factor 4 alpha

**Reviewer’s code:** 00037668

**Reviewer’s country:** United States

**Science editor:** Jin-Xin Kong

**Date sent for review:** 2016-08-02 11:40

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> 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"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[ Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[ Y] No	

**COMMENTS TO AUTHORS**

This study investigates the regulatory role of nuclear factor 4-alpha on the expression of specific liver microRNA. For the study, male and female mice with or without liver specific knock out of HnF4alpha were assessed. The results, presented as in a 2-way hierarchical clustering, and color coded for relative expression indicate the HNF4alpha directly binds to the promoters of miR-101; miR-122, miR194-2/mir-192, and miR-193. Data collected using a luciferase reporter indicate that HNF4alpha markedly activated the promoters of mouse and human miR-101b/miR-101-2 and miR-194-2/miR-192. Further, the latter cluster decreases the activity of histone H3F3 and CHD1, suggesting a roe in chromosome remodeling through these key elements.