ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology
ESPS manuscript NO: 26360
Title: JNK-mediated Rubicon expression enhances hepatocyte lipoapoptosis and promotes hepatocyte ballooning
Reviewer's code: 02462668
Reviewer's country: Czech Repoublic
Science editor: Yuan Qi
Date sent for review: 2016-04-06 11:31
Date reviewed: 2016-04-20 18:41

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

COMMENTS TO AUTHORS

This manuscript investigates the relationship between autophagy and lipotoxicity in both in vivo and in vitro models of NASH. This paper contains fascinating and novel data for understanding of pathophysiology of NASH; however there are some important issues that need attention.   Major comments: 1. Authors have to state why they chose AML 12 cell line. 2. N   values   have   to   be   mentioned for all experiments.   3. All results should be described in the Results and in the legends to figures (e. g. in the legend to figure 1D, p-JNK expression is missing,   in the legend to figure 3 B, CHOP expression is missing; in the legend to figure 4A, p-c-jun expression is missing, description expression of Rubicon and JNK in the Results…) 4.   Sentence on page 12, line 16-18 should be revised. You have to state time of incubation and concentration of PA used in the experiment. Moreover, your statement, that 800 uM PA decreased Rubicon expression, is not true in general. It is true only in some time intervals. 5. Why did authors choose 10 hour incubation interval (with 800 uM PA) for evaluation of the effect siRubicon on Rubicon expression? Expression of Rubicon is already lowered in this time interval.   Minor comments: 1.   You   state   that   the   age   of   mice   at

sacrifice was 20 weeks. Wasn't it 19 weeks? (6 weeks + 1 week of habitation + 12 weeks of experiments) 2.   qRT-PCR is not quantitative reverse transcription but ?quantitative real time" 3.

Authors have to correct sentence on page 11, line 19-20 (Expression of the autophagy inhibitor Rubicon was significantly lower in the HFD mice than in the CT mice). It is vice versa. 4.   Authors have to correct sentence in figure 2 legend (page 25, line 15 – "and induces but impairs"). 5.   Unify abbreviations (JNK vs. c-jun). 6.Authors have to correct SP60012 on page 13, line 20.

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