

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 35883

Title: Palmitate induces fat accumulation by activating C/EBP β -mediated GOS2 expression in HepG2 cells

Reviewer's code: 01805500

Reviewer's country: Italy

Science editor: Li-Juan Wei

Date sent for review: 2017-08-15

Date reviewed: 2017-08-15

Review time: 6 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 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 type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

Recently, cytokeratin 8-18, or TPS/TPA, are reckoned as important for hepatocyte integrity and play a direct role in NAFLD/NASH as evident in.....Eur J Clin Invest. 2007 Jan;37(1):48-53. Serum concentrations of the tissue polypeptide specific antigen in patients suffering from non-alcoholic steatohepatitis. On the other side there is a strict link between palmitate and cytokeratins 18, as evident in.....Reproduction. 2017 Apr;153(4):369-380. doi: 10.1530/REP-16-0576. Oleate attenuates palmitate-induced endoplasmic reticulum stress and apoptosis in placental trophoblasts. In fact, by immunoprecipitation, protein-protein binding assays and by immunoelectron microscopy authors identified a direct linkage between LD-binding proteins and the intermediate-sized filaments (IF) cytokeratins 8 and 18 (also designated as keratins K8 and K18). Specifically, in gradient fractions of higher density supposedly containing

small LDs, they received as co-precipitations cytidyl-, palmitoyl- and cholesterol transferases and other specific enzymes involved in lipid metabolism, as evident in..... (2013) Lipid Droplets, Perilipins and Cytokeratins - Unravelling Liaisons in Epithelium-Derived Cells. PLoS ONE 8(5): e63061. <https://doi.org/10.1371/journal.pone.0063061>. Authors are requested to comment these aspects in relation to their data referring to the suggested pieces of research.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 35883

Title: Palmitate induces fat accumulation by activating C/EBP β -mediated G0S2 expression in HepG2 cells

Reviewer's code: 03538158

Reviewer's country: Japan

Science editor: Li-Juan Wei

Date sent for review: 2017-08-15

Date reviewed: 2017-08-16

Review time: 23 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 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 type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

Zhao et al. reported that palmitate induces lipid accumulation in HepG2 cells by activating C/EBP β -mediated G0S2 expression. This may provide the association between G0S2 expression and palmitate-induced hepatic lipogenesis. 1. Why did authors use HepG2 cells? 2. In M & M section, Is HepG2 cell a hepatoma cell line or hepatoma cell? 3. In M & M section, Do not repeat "Company, city, state, country" twice such as Invitrogen, Carlsbad, CA, USA 4. In M & M section, Please describe the primer sequences of G0S2. 5. In M & M section, Authors described "To measure the nuclear C/EBP β protein level, nuclear protein extracts were isolated using NE-PER Nuclear and Cytoplasmic Extraction Reagents (Thermo Fisher Scientific, Waltham, MA, USA)." In results section, which of other proteins did authors use for Western blotting? 6. In abstract section, Authors described "This provide evidence linking G0S2 expression to

palmitate-induced hepatic lipogenesis with important implications for the treatment of obesity-associated fatty liver disease.” Authors should describe how important these evidence for the treatment of obesity-associated fatty liver disease. Please discuss more. 7. In Figures 3 and 5, please use larger size of fonts.