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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 8098

Title: Globular adiponectin augments insulin secretion, mediates the expression of insulin receptor and alleviates hepatic steatosis in HFD/STZ-induced diabetic rats combined with NAFLD

Reviewer code: 00542353

Science editor: Ya-Juan Ma

Date sent for review: 2013-12-16 11:16

Date reviewed: 2013-12-27 15:37

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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 checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

In the present study Ma et al evaluated effects of globular adiponectin in diabetic rats with NAFLD. The major result of this study is that globular adiponectin promotes insulin secretion, mediates glucolipid metabolism, regulates insulin receptor expression and alleviates the hepatic steatosis. Although interesting, some concerns need to be addressed: In the Abstract, authors report about 7 rats receiving a basic diet (control group) and other 14 rats receiving a high-fat diet which were randomized to globular adiponectin injection or saline solution. Although authors identified these 3 study groups, they presented only results about the experimental group in the abstract. Some data about vascular and metabolic effects of globular adiponectin are already available (see *Circ Res.* 2013;112(9):1205-7 and *Circ Res.* 2013;112(9):1263-71). In contrast, little is known about effects on NAFLD. This could be highlighted by authors. Details about changes in the expression of insulin receptor protein and mRNA are very interesting, but in line with previous data. On the other hand, authors completed the evaluation with the assessment of effects on steatosis. Considering that some - but not all - of these results are already known, authors should further discuss about "what this study adds to current literature". In addition, in the discussion section, they should further discuss studies about effects of globular adiponectin on fatty acids oxidation.



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ESPS Manuscript NO: 8098

Title: Globular adiponectin augments insulin secretion, mediates the expression of insulin receptor and alleviates hepatic steatosis in HFD/STZ-induced diabetic rats combined with NAFLD

Reviewer code: 00054275

Science editor: Ya-Juan Ma

Date sent for review: 2013-12-16 11:16

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input checked="" type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

In this paper Hong Ma et al. studied the role of globular adiponectin in diabetes/NAFLD in an animal model. They studied a small number of rats describing that globular adiponectin exerts beneficial effects on T2DM rats combined with NAFLD. The study is well realized and the results clearly reported. Comment 1. There are many grammatical and syntax errors and inappropriate descriptions in the text. An English proof-reading by native is mandatory before resubmitting the manuscript. Comment 2. At least two propositions are redundant and should be omitted (in the Introduction, fifth line: "NAFLD has been recognized....T2DM." and in the Discussion, fifth line: "Furthermore, NAFLD has been recognized....T2DM."). Comment 3. An explanation about what is STZ and its role in the genesis of experimental T2DM should be reported. Comment 4. Some acronyms have to be explained the first time they are used (STZ, NAFLD, ISI, etc...). Comment 5. The way of measuring the score of staining (percentage of positive areas multiplied by the intensity of staining) is arguable: in this way the final score strongly depends from the intensity of staining (weak, moderate, strong and very strong) that is obviously very subjective...