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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 10838

Title: T3-induced liver AMPK signaling: redox dependency and upregulation of downstream targets

Reviewer code: 02860895

Science editor: Yuan Qi

Date sent for review: 2014-04-22 22:03

Date reviewed: 2014-05-04 20:54

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" 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 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)		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

This is a part of the consecutive work by the authors. Their thesis and presented data has been approved by their own numerous publications. I appreciate the achievement of the research group. Readers who know their work want probably to get something new in this paper. Hence, it would be better that new findings are more emphasized. I suggest the authors consider this point. Another point that I concern is in their basic concept. It can be interpreted that endogenous oxidative stress is necessary to induce antioxidation mechanisms. To my knowledge, there are far more oxidation factors than antioxidants in the usual aerobic condition. Therefore, I think that antioxidant factors including AMPK are already induced sufficiently without T3-mediated preconditioning. I'd like to get a hint to solve this question in the present paper.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 10838

Title: T3-induced liver AMPK signaling: redox dependency and upregulation of downstream targets

Reviewer code: 02861035

Science editor: Yuan Qi

Date sent for review: 2014-04-22 22:03

Date reviewed: 2014-05-15 04:29

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" 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 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 checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is a detailed report on the mechanisms of T3 in mediating AMPK signalling. The authors covered a range of early and late kinases in detail and showed that T3 mediate AMPK signalling in a redox dependent manner. I appreciate the effort and the authors put into their work and the idea of using T3 for preconditioning. I would like the authors to address these points before publishing, 1) In fig 1B, NAC alone seems to increase AMPK mRNA level by 10 times compared to controls, it would be good to at least discuss this or perform a western to show p-AMPK level in the NAC group compared to the controls. 2) Authors should show some functional changes (eg. autophagy ability, LC3-II) of T3, vs control, NAC, T3 + NAC