



PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 54737

Title: Ipragliflozin-induced improvement of liver steatosis in obese mice may involve sirtuin signaling

Reviewer's code: 03478516

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Research Scientist, Senior Scientist, Teacher

Reviewer's Country/Territory: Italy

Author's Country/Territory: Japan

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Reviewer chosen by: Jie Wang

Reviewer accepted review: 2020-03-02 15:06

Reviewer performed review: 2020-03-02 16:40

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

RT-PCR and Western blotting have recently demonstrated decreased expression of not only SIRT1, but also SIRT3, SIRT5, and SIRT6 in the NAFLD group in comparison with the control group. The link lies on the increased expression of lipogenic genes (mainly impaired in NAFLD) including sterol regulatory element binding protein-1 (SREBP-1), fatty acid synthase (FASN), and acetyl-CoA carboxylase (ACC) was noted within the NAFLD group. In contrast to the other SIRT genes, the expression of SIRT4 was upregulated, highlighting the key role of SIRT 4. *Ann Clin Lab Sci* Autumn 2014 vol. 44 no. 4 410-418. Thus, pointing out all on Sirt 1 is a little bit reductive. Authors should comment on this aspect, also at the light of other observations concerning the role of SIRT 4 in NAFLD. Authors are kindly requested to present their data as means plus/minus SD and not SEM, because readers are interested in knowing the dispersion of values and not the precision of the mean, due to the paucity of observations, i.e., eight for each group.