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8226 Regency Drive, Pleasanton, CA 94588, United States

Telephone: +1-925-223-8242 Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com http://www.wjgnet.com

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 8864

Title: The FXR Agonist GW4064 Alleviates Endotoxin-Induced Hepatic Inflammation by Repressing Macrophage Activation

Reviewer code: 02861409

Science editor: Ling-Ling Wen

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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 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"/> 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

In the present manuscript, Yao et al. investigated the role of farneosid X receptor (FXR) in a model of nonalcoholic fatty liver disease (NAFLD). The authors used the FXR agonist GW4064 for their study. C57BL/6 mice were fed with either normal diet (ND) or high fat diet (HF). In addition animals were additionally injected with LPS. In vitro the study was performed with the murine macrophage cell line RAW 264.7. The manuscript by Yao et al. is interesting, but there are still questions to be answered: - It is not clear how many mice were used for each experimental group. Mice on normal diet should also be treated with LPS. Better say normal diet instead of control. - The authors measured no body and liver weight of the mice. This is quite important for a study about NAFLD and has to be added. What about macroscopic changes of the liver ? Do you have pictures ? - Why did the authors show no glucose levels, insulin levels and lipids of the mice ? - There is no pathologist as a coauthor. - How was it possible to get "normal" liver tissues ? There are no information about the ethic committee regarding this point. - What is the source of the used cell line ? - How often were the measurements repeated ? No information in M&M. - Figure 1: The description of the histology is limited. Any changes of the bile ducts, etc ? - Figure 2: Apoptosis should be additionally analyzed by a second technique. (e.g. WB) - Figure 3: Change the y-axis to 10 in all figures. - Figure 4: How do the cells look after "treatments". Any differences ? Pictures ? - Figure 5: Any chance to measure the cytokine panel in human tissues ? In addition to the staining for FXR it would be necessary to show expression by another method (e.g. WB, RNA). - Table 1: Primer information can be shifted to M&M. - Table 2 is missing information about BMI, insulin levels, lipids.... There is also no



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explanation for * in the table itself. - There is no link to Figure 4 in the result part.