

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 31690

Title: Inhibitory effect of oxymatrine on hepatocyte apoptosis via TLJing Yu/
PI3K/ Akt/GSK-3 β signaling pathway

Reviewer's code: 03317155

Reviewer's country: Poland

Science editor: Jing Yu

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[Y] Grade A: Excellent	[] Grade A: Priority publishing	Google Search:	[] Accept
[] Grade B: Very good	[Y] Grade B: Minor language polishing	[] The same title	[] High priority for publication
[] Grade C: Good	[] Grade C: A great deal of language polishing	[] Duplicate publication	[] Rejection
[] Grade D: Fair	[] Grade D: Rejected	[Y] No	[Y] Minor revision
[] Grade E: Poor		BPG Search:	[] Major revision
		[] The same title	
		[] Duplicate publication	
		[] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Dear Authors, The manuscript titled: " Inhibitory effect of oxymatrine on apoptosis of hepatocytes via TLR4/PI3K/ AKT/GSK-3 β signaling pathway" by Xian Zhang et al. aimed to: 1) to evaluate effect of oxymatrine (OMT) on hepatocyte apoptosis of LPS/D-Ga1N induced acute liver failure in rats, and 2) to search effective drugs for clinical prevention and treatment of acute liver failure. The authors have come to the conclusion, that oxymatrine can inhibit hepatocyte apoptosis by suppressing the TLR4/PI3K/ AKT/GSK-3 β signaling pathway, which suggest that OMT could be an effective candidate to ameliorate the course of acute liver failure (ALF). The study is generally well designed, well presented and the results are potentially of a certain interest. The main idea of the manuscript gives a new approach to the treatment of extremely serious clinical problem - the acute liver failure and investigation of precise pathomechanism of disease is the only way to implement an effective therapy in clinic. There are however some issues that should be addressed. 1. Abstract: Introduction:to evaluate effect not the inhibitory effect, because in this phase of the study you did not know, what the results would be. Key words should be in accordance with Medical Subject

Headings in PubMed (<http://www.ncbi.nlm.nih.gov/pubmed>), please verify them. Not all of the abbreviations used in the text are explained in this section (i.e. ALT, AST, TLR4 etc.), please go through the paper thoroughly. Generally you should avoid the abbreviations in the abstract section, where it is possible. 3. Introduction: To clarify the issue, it would be worth to include some short graph/figure presenting known pathomechanisms involved in ALF and potential points for new therapies, you want to investigate. Not all abbreviations used in this section or other parts of the manuscript are not fully explained in the text. Please go through the paper thoroughly. 4. Material and methods: Did you really use the twenty animals in each study group? What the laboratory conditions were kept for the animals through the whole experiment – you should include them in the Treatment of Animals section. What kind of microscopes (light and electron) did you use for the analysis?, what magnifications were used? What kind of methods and equipment were used for biochemical tests? 5. Results: There are not any captions/legends accompanying the graphs and the figures through the whole result section. Please complete them. Why on the same figures are used both asterisk and hashes above bars (* or ** and # or ##) ?, please explain what the difference they illustrate in the legend of figures. 6. Discussion: You did not mention any other studies interested your topics (oxymatrine in ALF). You should compare with them. If there are not such studies, you should emphasize it, that you are the first in literature..... 7. Conclusion: The first two sentences are the results of the study. Generally you should avoid the repetitions of the issues. Besides, there is no answer for the second aim of the study – possible clinical use and treatment of OMT in ALF. 8. Table and figure: see above (the result section) – lack of captions/legends of the graphs and figures 9. There are several misspelling and grammar errors. Please go through the paper thoroughly. 10. Finally, considering the whole article, your manuscript might be accepted for publication in the WJG pending changes mentioned above. Yours faithfully, The Reviewer of WJG