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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 67144

Title: Metabolomics of Fuzi-Gancao on acute liver injury induced by CCl4 and its regulation of the bile acid profile in rats

Reviewer's code: 05084430
Position: Peer Reviewer
Academic degree: MD, MSc
Professional title: Doctor
Reviewer's Country/Territory: Portugal
Author's Country/Territory: China

Manuscript submission date: 2021-04-17
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-04-28 10:38
Reviewer performed review: 2021-05-10 08:40
Review time: 11 Days and 22 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

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SPECIFIC COMMENTS TO AUTHORS

1 - The original findings of this scientific work is that F-G could protect hepatocytes by promoting the binding of free bile acids to glycine and taurine, reducing the accumulation of free bile acids in the liver and may also regulate the compensatory degree of taurine, decreasing the content of taurine-conjugated bile acids to protect hepatocytes. F-G is frequently used in traditional chinese medicine and this scientic work unveils a very interesting metabolic hepatic protection mechanism of F-G. 2- The article is well written and designed and propose a relevant role of F-G in liver injury mechanisms, acting as a protective agent. Indeed, this article by thoroughly describing F-G hepatic role, paves the way for clinical studies evaluating F-G usefulness and safety in clinical practice. 3- This is a basic science article, with remarkable novelty regarding F-G role in hepatic metabolism. Further studies, assessing F-G role in hepatic metabolism will be required prior to validation of clinical use of F-G.