

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 56083

**Title:** Antioxidant Activity and Hepatoprotective Effect of 10 Medicinal Herbs on CCl<sub>4</sub>-induced Liver Injury in Mice

**Reviewer's code:** 01490079

**Position:** Peer Reviewer

**Academic degree:** FCPS, MBBS, MD, PhD

**Professional title:** Professor, Research Associate

**Reviewer's Country/Territory:** Netherlands

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-06-12

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-06-15 10:28

**Reviewer performed review:** 2020-07-11 02:05

**Review time:** 25 Days and 15 Hours

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 Grade E: Do not publish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

The manuscript is focused on provide valuable information for the selection of more efficient herbs to protect against CCl<sub>4</sub>-induced liver injury, and to support the direct application of herbs or the development of novel therapies for the management of oxidative stress-related diseases. The designed of the study is very good, the antioxidant activity of ten medicinal herbs was determined by both ferric-reducing antioxidant power (FRAP) and trolox equivalent antioxidant capacity (TEAC) assays. The herb with the strongest hepatoprotective performance was analyzed for the detailed bioactive components by using high-performance liquid chromatography-electrospray ionization source-ion trap tandem mass spectrometry (HPLC-ESI-ITMS/MS). *S. officinalis* L. exhibited the strongest hepatoprotective effect, and the strongest in vitro activities were also found for *S. officinalis* L. The results are excellent, but not very clear, I think the author need to separate RESULTS and DISCUSSION. The study provided valuable information for the selection of more efficient herbs to protect against CCl<sub>4</sub>-induced liver injury, and to support the direct application of herbs or the development of novel therapies for the management of oxidative stress-related diseases. I recommend accepting this manuscript for publication after a minor editing.

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**Reviewer's code:** 02530872

**Position:** Peer Reviewer

**Academic degree:** FEBG, MBS-HCA, MD

**Professional title:** Associate Professor, Research Scientist, Senior Lecturer

**Reviewer's Country/Territory:** Ireland

**Author's Country/Territory:** China

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#### **SPECIFIC COMMENTS TO AUTHORS**

The manuscript written by Meng et al. compares antioxidant and hepatoprotective activities of ten herbs, and identify and quantify phytochemicals for the one with strongest hepatoprotection. Many natural products confer health benefits against diverse diseases through their antioxidant activities. This study is of value to assist the selection of more effective natural products for direct consumption and the development of nutraceuticals or therapeutics to manage oxidative stress-related diseases. Very interesting study. And the manuscript is well written. The experiment of the study is designed very well, aims are very clear. Methods are reasonable. Data in figures and tables are very good, and well discussed. Thank you for giving opportunity to review your study.