

## ESPS Peer-review Report

**Name of Journal:** World Journal of Hepatology

**ESPS Manuscript NO:** 7486

**Title:** A murine model to study brain, behavior and immunity during hepatic encephalopathy

**Reviewer code:** 01560721

**Science editor:** Qi, Yuan

**Date sent for review:** 2013-11-21 20:15

**Date reviewed:** 2013-11-27 17:25

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 type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input checked="" 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)		BPG Search:	<input checked="" type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

## COMMENTS TO AUTHORS

Manuscript No: 7486 Title: A murine model to study brain, behavior and immunity during hepatic encephalopathy This manuscript shows a new murine model of acute liver failure (ALF) and hepatic encephalopathy (HE). However, there are several limitations in this manuscript. Major points 1. TAA has been used in rat models of ALF and HE. The authors developed a murine model of ALF and HE using TAA. However, I do not understand the efficacy of this new murine model. You should describe the efficacy of this model compared with the previous model using TAA. 2. The authors show MR image in the brain. MR revealed a discrete, but diffuse brain edema in TAA-treated mice. However, there are no pathological findings in the brain. You should investigate the pathological findings, especially brain astrocytes. 3. The authors show hyperammonia in the brain. However, there are poor data in the brain. Do you explain the mechanisms of HE in TAA-TAA-treated mice? Minor points 1. In the Introduction, lines 26-31, these sentence "Mice submitted to such...due to liver failure." should be changed to the results section.

## ESPS Peer-review Report

**Name of Journal:** World Journal of Hepatology

**ESPS Manuscript NO:** 7486

**Title:** A murine model to study brain, behavior and immunity during hepatic encephalopathy

**Reviewer code:** 00071753

**Science editor:** Qi, Yuan

**Date sent for review:** 2013-11-21 20:15

**Date reviewed:** 2013-11-30 14:06

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[ Y] Grade A (Excellent)	[ ] Grade A: Priority Publishing	Google Search:	[ Y] Accept
[ ] Grade B (Very good)	[ Y] Grade B: minor language polishing	[ ] Existed	[ ] High priority for publication
[ ] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	[ ] Rejection
[ ] Grade D (Fair)	[ ] Grade D: rejected	BPG Search:	[ ] Minor revision
[ ] Grade E (Poor)		[ ] Existed	[ ] Major revision
		[ ] No records	

## COMMENTS TO AUTHORS

The authors describe a murine model of acute hepatic failure to study hepatic encephalopathy by sequential administration of thioacetamide intraperitoneally. The hypothesis is convenient, the methodology for acute hepatic failure was suitable, the evaluation of hepatic encephalopathy was convenient and sophisticated, the results were interesting and the discussion appropriated. Concerns: 1. The authors presented the result in the last 6 lines of the introduction. This inaccuracy should be removed. 2. The numbers of the reference in the text, mainly in the beginning of the method, seems to be wrong. 3. The results presentations are very condensed in just two figures and should be split. 4. There are syntax and grammar errors in the manuscript.

## ESPS Peer-review Report

**Name of Journal:** World Journal of Hepatology

**ESPS Manuscript NO:** 7486

**Title:** A murine model to study brain, behavior and immunity during hepatic encephalopathy

**Reviewer code:** 00181520

**Science editor:** Qi, Yuan

**Date sent for review:** 2013-11-21 20:15

**Date reviewed:** 2013-12-26 05:36

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 checked="" 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

Please modify the introduction: Omit the part starting from "Mice submitted to such TAA injection regime developed massive liver injury and inflammation....." till the end of the introduction. These are your results. You should not write them in this section. Please modify the discussion: The first paragraph is a repetition of what you wrote in the introduction and methods. Start with the second paragraph straight away. References: Revise reference number 14. Add the volume and page numbers.