

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 46761

Title: Development and in vitro study of bi-specific MRI molecular probe for hepatocellular carcinoma

Reviewer's code: 01437829

Reviewer's country: Japan

Science editor: Ruo-Yu Ma

Reviewer accepted review: 2019-02-25 07:13

Reviewer performed review: 2019-02-27 06:10

Review time: 1 Day and 22 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This reviewer carefully reviewed the paper entitled, "Development and in vitro study of bi-specific MRI molecular probe for hepatocellular carcinoma". In this manuscript, the authors showed the possibility of usefulness of the bi-specific MRI probes in the early



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diagnosis of patients with hepatocellular carcinoma. This study was performed by appropriate methods, and the manuscript is written concisely with the adequate numbers of figures and tables. Major part of these results is interesting and a significant contribution to our knowledge on hepatocarcinogenesis. There is a major concern in the present experiment that this reviewer must point out. The internalization of bi-specific probe in the hepatocyte is proven in vitro experiment. However, there are many Kupffer cells in the liver of a patient with hepatocellular carcinoma, and bi-specific SPIO prove might be easily incorporated into Kupffer cells rather than hepatocytes. Non-specific incorporation of background Kupffer cells may interfere the visualization of small size HCC. How do the authors overwhelm this problem?

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No