

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 13374

Title: The Preparation of MR Specific USPIO Probes Using One-Pot Method For Early Detection of Hepatocellular Carcinomas

Reviewer code: 02348457

Science editor: Jing Yu

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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"/> Existing	<input type="checkbox"/> High priority for publication
<input 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 type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

1. Introduction: Not all HCCs express AFP and GPC3, the authors should provide some background knowledge about the molecular markers of HCC. 2. Introduction: Generally, SPIO nano particles are used for targeting probes, not USPIO, please clarify. 3. Introduction: There were many studies using other ligands to synthesis HCC nano probes, please add the related references. 4. M&M, please move the Statistical Analysis section to the last paragraph. 5. M&M, in vitro studies, please add another cell line without expression of AFP and GPC3 as the control. 6. Results, Measurement of antiAFP-USPIO, antiGPC3-USPIO and USPIO relaxivity, the authors did not provide a fitting curve of T1 and T2 relaxivity, please convert the data of table 1 and table 2 to a diagram to demonstrate relaxivity curves. 7. Results, the authors claimed that incorporation of the probes into intracellular organelles follows the endocytosis pathway. But no direct histologic micrographs were provided, such as endosome staining, etc. 8. Figures 4,5, please convert these figures to relaxivity curves. 9. The title, The Preparation of MR Specific USPIO Probes Using One-Pot Method For Early Detection of Hepatocellular Carcinomas, should be changed to The Preparation of MR Specific USPIO Probes Using One-Pot Method For in vitro Detection of Hepatocellular Carcinomas since this study is an in vitro experiment, no animal models were tested.