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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology
ESPS manuscript NO: 25893
Title: Alpha-fetoprotein–targeted reporter gene expression imaging in hepatocellular carcinoma
Reviewer's code: 02860797
Reviewer's country: China
Science editor: Ya-Juan Ma
Date sent for review: 2016-03-25 15:27
Date reviewed: 2016-03-26 02:01

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	Google Search:	[ ] Accept
[Y] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[Y] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This manuscript was generally well written, however, I think the authors should consider to combine the sections of EXPERIMENTAL HCC MOUSE MODEL and AFP-TARGETED REPORTER GENE EXPRESSION-IMAGING IN HCC MODEL together. By classifying HCC models into three categories, they can be first described and then the studies based on them were stated.

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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology
ESPS manuscript NO: 25893
Title: Alpha-fetoprotein–targeted reporter gene expression imaging in hepatocellular carcinoma
Reviewer's code: 01557574
Reviewer's country: Turkey
Science editor: Ya-Juan Ma
Date sent for review: 2016-03-25 15:27
Date reviewed: 2016-04-01 21:40

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[Y] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[Y] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[ ] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Dear Author, This article title with " Alpha-fetoprotein–targeted reporter gene expression imaging in hepatocellular carcinoma " should be published at WJGO. It is well documanted and there is new new informations for us. Sincerely yours.

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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology
ESPS manuscript NO: 25893
Title: Alpha-fetoprotein–targeted reporter gene expression imaging in hepatocellular carcinoma
Reviewer's code: 02445428
Reviewer's country: Taiwan
Science editor: Ya-Juan Ma
Date sent for review: 2016-03-25 15:27
Date reviewed: 2016-04-12 11:16

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[ ] Minor revision
[ ] Grade E: Poor		[Y] No	[Y] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The authors reviewed several HCC animal models, focusing on AFP-targeted reporter gene expression imaging. The authors think AFP-targeted reporter gene expression imaging can provide the information about hepatocarcinogenesis. The AFP-targeted reporter gene expression imaging has the potential to be applied for the detection of AFP-expressing HCC tumors and screening of increased/decreased AFP levels due to disease or drug treatment. The authors review a lot of publication. However, they should provide more information to support their conclusion. 1. The bioluminescent signal was detected during the early stage of DEN-induced HCC prior to neoplastic transformation. Thus, how do we know the timing of malignant transformation? The ideal model is that no gene expression before the malignant transformation and gene expression is detected only after malignant transformation. Please comment. 2. The whole review does not touch upon the clinical application. Please provide some information to support or speculate the idea that such molecular imaging can be applied clinically. 3. Sensitivity is an issue that should be discussed on molecular imaging. Do these papers discuss about the sensitivity? Any data of comparing molecular

imaging to current standard imaging modality, such as CT/ MRI?