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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 42516

Title: Near-infrared photoimmunotherapy of pancreatic cancer using an indocyanine green-labeled anti-tissue factor antibody

Reviewer's code: 00053888

Reviewer's country: United Kingdom

Science editor: Ruo-Yu Ma

Date sent for review: 2018-10-23

Date reviewed: 2018-10-23

Review time: 9 Hours

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[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced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

SPECIFIC COMMENTS TO AUTHORS

This is an interesting and well constructed manuscript. The use of photoimmunotherapy is novel and clearly has promise. The authors have used two well established pancreatic cancer cell lines that express a different phenotype but both express the target protein

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but in different levels. SUIT2 cells are a more anaplastic type cell and BxPC3 a more well differentiated tumour cell. The authors then used BxPC3 cells in a nude mice model and exposed the animals to an anti-TF antibody conjugated to ICG and then exposed the animals to near infra-red light. Tumour growth was inhibited in the treatment group compared to controls. The study has been well conducted and the manuscript is well written. The authors accept that this is a proof of concept and further study is required but this technique certainly shows some promise under the conditions of the study. The figures are excellent and informative but the discussion is too long and would benefit from some serious 'culling'. Overall the manuscript is certainly worthy of publication and will add to the knowledge base in this area.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

[ ] The same title

[ ] Duplicate publication

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[Y] No

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