

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 42615

Title: Feasibility of terahertz imaging for discrimination of human hepatocellular carcinoma

Reviewer's code: 02955837

Reviewer's country: Germany

Science editor: Jin-Lei Wang

Date sent for review: 2018-09-30

Date reviewed: 2018-10-15

Review time: 15 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input 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

Very interesting study. Some minor language polishing should be corrected.

INITIAL REVIEW OF THE MANUSCRIPT



**Baishideng
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Group**

7901 Stoneridge Drive, Suite 501,
Pleasanton, CA 94588, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
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PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 42615

Title: Feasibility of terahertz imaging for discrimination of human hepatocellular carcinoma

Reviewer's code: 02992676

Reviewer's country: Australia

Science editor: Jin-Lei Wang

Date sent for review: 2018-12-14

Date reviewed: 2018-12-24

Review time: 10 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input 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 checked="" 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 study is very interesting. In this observational study, Duan et al evaluated the feasibility of THz for the discrimination of HCC from normal liver tissues. Currently, the most accurate diagnostic imaging modality for HCC is MRI, but it's difficult to



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7901 Stoneridge Drive, Suite 501,
Pleasanton, CA 94588, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
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distinguish HCC from cirrhotic lesions. New methods for early diagnosis of HCC are required. THz spectroscopy is considered to have potential for clinical examination, but there are few reports on HCC diagnosis. This study give the clinicians a new sight on the feasibility of THz imaging for discrimination of HCC. Overall, the study is well designed and the results are interesting and important. The figure 1 clearly showed the continuous-wave THz transmission imaging system. The sample number is not large, and the authors can collect more samples for future studies and to more confirm the feasibility of THz for the HCC diagnosis. Anyway, for this manuscript itself, it's very well written. Only the references can be updated and some minor language polishing should be corrected. Congratulations!

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 42615

Title: Feasibility of terahertz imaging for discrimination of human hepatocellular carcinoma

Reviewer's code: 02992570

Reviewer's country: Japan

Science editor: Jin-Lei Wang

Date sent for review: 2018-12-14

Date reviewed: 2018-12-29

Review time: 14 Days

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 checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input 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
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		<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

The manuscript is very well written. THz spectroscopy have potential for clinical examination, especially in cancer diagnosis, including the skin cancer, breast, brain and gastrointestinal cancer. This study evaluated the feasibility of THz imaging for



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discrimination of HCC. The study is well designed, the results are very interesting. Especially, the figures are wonderful. The figures well introduced the continuous-wave THz transmission imaging system, and it make a more clear insight for this technology. I suggest to add the patients data to a table, it will give the reader more information then.

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