

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 51399

Title: Biomarkers for detecting colorectal cancer non-invasively: DNA, RNA or proteins?

Reviewer's code: 03766000

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Research Assistant Professor

Reviewer's country: China

Author's country: United Kingdom

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-09-18 08:38

Reviewer performed review: 2019-09-20 00:40

Review time: 1 Day and 16 Hours

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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input 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 type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This review by Alexandre Loktionov systematically summarized the recent progress in



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the biomarkers (proteins, DNA, RNA, low molecular weight metabolites, shifts in the bacterial composition of gut microbiome, etc) of colorectal cancer. It is well-written. It is very useful for the early diagnosis, and therapy of colorectal cancer.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 51399

Title: Biomarkers for detecting colorectal cancer non-invasively: DNA, RNA or proteins?

Reviewer's code: 02941657

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's country: Thailand

Author's country: United Kingdom

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-09-16 10:46

Reviewer performed review: 2019-09-20 08:25

Review time: 3 Days and 21 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 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
<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

1) The author title: Biomarkers for detecting colorectal cancer non-invasively: DNA,

RNA or proteins? This specific review may give more interesting point of view to the audience if it is efficient for "early detection". 2) Although the author selected the method because of non-invasive and cost effectiveness, I would agree if the author give the opinion of other disadvantages on the methods as well. 3) Concerning to the blood test biomarker, if the diagnostic by new biomarker will be useful, the review should include the diagnostic study those compare the gold standard and new methods. from table 1 and 2, all DNA, RNA, protein result in table may arrange diagnostic sensitivity and specificity from maximum to minimum value. Did the author may use the figure that is reproduced or reference from other source ? If it is from other source, the author may give the permission of reference in figure legend and give the referee. 4) In conclusion and discussion: I read from the abstract, but the contents do not appear in the main text.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 51399

Title: Biomarkers for detecting colorectal cancer non-invasively: DNA, RNA or proteins?

Reviewer's code: 03031470

Position: Editorial Board

Academic degree: MD

Professional title: Professor, Surgeon, Surgical Oncologist

Reviewer's country: United States

Author's country: United Kingdom

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-09-16 12:39

Reviewer performed review: 2019-09-21 16:05

Review time: 5 Days and 3 Hours

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

Thank you for the opportunity to review the manuscript. These are my opinions and



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suggestion with an aim for the author to improve the manuscript. This manuscript describes an important subject in the non-invasive identification of biomarkers in diagnosis of colorectal neoplasia. It describes useful current developments and updates the progress on these cancers. Title is appropriate. This manuscript is too long for an editorial and should be submitted as a review manuscript. Editorial is generally brief and describes recent articles or group of articles or description of a singular new technology which has proven useful for management in a clinical disease. This manuscript is providing multiple technologies most of which are in the preliminary stages and not validated to be useful for clinical practice. Further 150 references are too long for an editorial. Abstract should be re done and include that the current approved noninvasive tests (in the USA and I am sure in Europe and other places too) are Fit which checks for fecal hemoglobin, and Cologuard which checks for stool DNA mutations and also includes Fit, Endoscopy is not a non-invasive test and should be excluded from abstract. The manuscript gives only a brief overview describing the multiple technologies in research currently such as non-coding RNA, mi RNA technology, stool DNA, mucus studies, and metabiomics. The author describes these studies briefly in the body of the manuscript but has included such large table that it is impossible for the reader to make any sense of the studies. My opinion is these technologies are so detailed that they are a review in by themselves.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- [] The same title
- [] Duplicate publication
- [] Plagiarism
- [Y] No



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BPG Search:

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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 51399

Title: Biomarkers for detecting colorectal cancer non-invasively: DNA, RNA or proteins?

Reviewer's code: 03547237

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Doctor

Reviewer's country: China

Author's country: United Kingdom

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-09-16 14:10

Reviewer performed review: 2019-09-23 12:36

Review time: 6 Days and 22 Hours

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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input 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 type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript titled biomarkers for detecting colorectal cancer non-invasively: DNA,



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RNA or proteins?, the authors summarize currently non-invasive (colorectal mucus, urine, saliva, exhaled air) biomarkers for colorectal cancer(CRC) screening tests.This manuscript is an interesting paper. It is important for not only clinical practice but also basic study in colorectal cancer screening.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 51399

Title: Biomarkers for detecting colorectal cancer non-invasively: DNA, RNA or proteins?

Reviewer's code: 00070758

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's country: Bulgaria

Author's country: United Kingdom

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-09-18 07:57

Reviewer performed review: 2019-09-24 11:06

Review time: 6 Days and 3 Hours

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 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 checked="" 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 checked="" 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

The paper by Alexandre Loktionov., named: "Biomarkers for detecting colorectal cancer

non-invasively: DNA, RNA or proteins?" is a review of literature, describing the use of the different invasive and non-invasive DNA, RNA and protein methods, in the strategy of CRC diagnosis. Furthermore, the manuscript discusses the use of different biological samples for CRC biomarker discovery, with their advantages and disadvantages, and summarizes the putative CRC markers most frequently identified as an "easily and inexpensively to identify a patient's cancer" Major comments: As an editorial paper, I would strongly recommend the author to demonstrate his own opinion and diagnostic strategy proposal for CRC detection with respect to the criteria of cost-effective option for non-invasive CRC screening. If not, the paper is more suitable for a mini- review paper.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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