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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 41540

Title: Involvement of methylation-associated silencing of FMN2 in colorectal carcinogenesis

Reviewer's code: 03001816

Reviewer's country: United States

Science editor: Xue-Jiao Wang

Date sent for review: 2018-08-22

Date reviewed: 2018-08-22

Review time: 10 Hours

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[ ] Grade E: Do not publish		[ ] Rejection	[Y] Advanced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

SPECIFIC COMMENTS TO AUTHORS

My comment concerns the RT-PCR. Is there any data that demonstrate whether the RNA used is DNA free? Trizol isolation is not necessarily going to get rid of all the DNA, and I do not see any indication that any subsequent DNase step was performed.

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Therefore, is there any negative control, such as doing the RT-PCR but skipping the RT step? If the RNA is really DNA free, then performing PCR directly on the RNA should not yield a band. Can the authors comment on this, at least? If they have any of these RNA samples left over, showing that no product is formed without the RT step would be helpful.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

[ ] The same title

[ ] Duplicate publication

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[Y] No

BPG Search:

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[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 41540

Title: Involvement of methylation-associated silencing of FMN2 in colorectal carcinogenesis

Reviewer's code: 03714376

Reviewer's country: Japan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-08-24

Date reviewed: 2018-08-27

Review time: 3 Days

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[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	[Y] Accept (High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

SPECIFIC COMMENTS TO AUTHORS

This study was well examined and written logically. There is no need of additional information to publish this article.

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 41540

Title: Involvement of methylation-associated silencing of FMN2 in colorectal carcinogenesis

Reviewer's code: 03459541

Reviewer's country: Spain

Science editor: Xue-Jiao Wang

Date sent for review: 2018-08-22

Date reviewed: 2018-09-07

Review time: 16 Days

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

SPECIFIC COMMENTS TO AUTHORS

In this paper, authors found that promoter hypermethylation of FMN2 gene at CpG islands induce down-regulation of mRNA FMN2 expression in CRC at early stages of the disease. The manuscript is well written and the state-of-the-art is adequate to the

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field of research. The paper is also original because FMN2 expression in CRC was previously studied; however this is the first work however this is the first paper relating it to promoter hypermethylation. The study was conducted in cultured CRC cell lines, samples from patients and public base data from patients. The number of samples from patients is too small (only 9). The results are very interesting because they suggest that DNA hypermethylation may be an important early event in CRC, most likely playing a critical role in cancer initiation, and can serve as an ideal diagnostic biomarker in patients with early-stage colon cancer, although not for survival.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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