



PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 51430

Title: Polyunsaturated Fatty Acids and DNA Methylation in Colorectal Cancer

Reviewer's code: 02505493

Position: Editorial Board

Academic degree: DPhil

Professional title: Professor

Reviewer's country: Greece

Author's country: Iran

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-09-18 16:42

Reviewer performed review: 2019-09-20 11:25

Review time: 1 Day and 18 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 checked="" 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 checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" 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 present m/s aims to review the studies related to the ability of PUFAs to prevent



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CRC by changing the DNA methylation. In the m/s a brief report of the latest knowledge regarding the changes in the DNA methylation pattern and its association with CRC is firstly presented, followed by a link of PUFAs with DNA methylation in CRC. The work is very interesting as it summarizes the last evidence of the field, however the m/s requires extensive revision to be accepted for publication. Major points

1. The text contains the terms UFA and UFAs, as well as PUFA and PUFAs, with the same meaning. The authors must carefully correct accordingly.
2. The authors must carefully examine the references cited, i.e., ref 53 does not correspond to page 6, line 2.
3. Page 12, lines 20-22: There is misleading information, or the authors have confused the data presented in ref 104.
4. The presentation of "Epigenetic modification by PUFA" and especially of "PUFA and possible DNA methylation mechanisms in CRC" contain a lot of information inserted in text like a list without any continuity and criticism by the authors. Moreover, this information is rather incomplete. For example, at page 13, lines 20-22, a sentence that informs for first time on hydroxymethylation of DNA by -3 PUFAs was inserted without any reference (although seven lines before, the study presenting the hydroxymethylation of DNA was cited). The use of one or two Tables replacing that text would be more helpful.

Minor points

1. Page 3, line 28: It is better to write 'maintenance of methyltransferase activity, which plays....'.
2. Page 4, line 2: It is better to write "tissues, such as breast and hepatocellular carcinomas, as well as cell lines, have elevated".
3. Page 4, line 3: Replace "Different" with "Various" or "A plethora of".
4. Page 4, line 20: Replace "is" with "are".
5. Page 11, line 23 and Page 14, line 26: Do not start new paragraph.

INITIAL REVIEW OF THE MANUSCRIPT

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Duplicate publication

Plagiarism

Y] No

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Plagiarism

Y] No



PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 51430

Title: Polyunsaturated Fatty Acids and DNA Methylation in Colorectal Cancer

Reviewer's code: 02841708

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's country: China

Author's country: Iran

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-09-20 12:45

Reviewer performed review: 2019-09-20 13:44

Review time: 1 Hour

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 checked="" 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 checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
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SPECIFIC COMMENTS TO AUTHORS

In this manuscript, author reviewed recent investigations linking PUFA and DNA



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methylation- associated colorectal cancer risk, which is of some significance. Author should delete some introduction before publication.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 51430

Title: Polyunsaturated Fatty Acids and DNA Methylation in Colorectal Cancer

Reviewer's code: 03120371

Position: Peer Reviewer

Academic degree: PhD

Professional title: Chief Doctor, Professor

Reviewer's country: China

Author's country: Iran

Reviewer chosen by: Artificial Intelligence Technique

Reviewer accepted review: 2019-09-23 10:57

Reviewer performed review: 2019-10-03 09:16

Review time: 9 Days and 22 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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
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		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
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SPECIFIC COMMENTS TO AUTHORS

In this review, the authors demonstrate that polyunsaturated fatty acids reduce the risk



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of colorectal cancer by affecting DNA methylation. The authors proposed several mechanisms by which PUFA affects DNA methylation, including modulation of cancer cell membrane, and activities of intracellular PPARs, COX-2, noncoding-RNAs, DNMTs and TET proteins, each of which is worth exploring in depth. The author points out that further researches are needed to provide more potential novel insights into the mechanisms about PUFA influence on DNA methylation and the CRC risk.

INITIAL REVIEW OF THE MANUSCRIPT

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