



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 42697

Title: Post-translational modifications of prostaglandin-endoperoxide synthase 2 in colorectal cancer: An update

Reviewer’s code: 02856239

Reviewer’s country: United States

Science editor: Ruo-Yu Ma

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Date reviewed: 2018-10-07

Review time: 10 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

I believe this is a very interesting and informative review on very timely topics. The paper is generally well written. Inflammation and immunology research should be conducted more commonly considering biological complexities of diseases. This review



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will help increase awareness of researchers. Please replace COX-2 with PTGS2 (cyclooxygenase-2) or PTGS2 in every place including all figures and tables. Replace COX with PTGS. Replace COX-1 with PTGS1. See www.genenames.org. All enzymes and proteins are derived from genes. Hence, gene symbols should be used for gene products. If protein should be clearly written, then write "PTGS2 protein". External factors such as environmental or microbial exposures need to be considered in inflammation. In this context, so-called integrative science of molecular pathological epidemiology (MPE) is a big movement. Any disease can be phenotyped based on pathogenic mechanisms. Inflammatory factors and exposures can be linked to molecular pathologies by the approach of MPE. The authors should read and discuss recent concept papers in this area (including Gut 2018; Annu Rev Pathol 2018) to further develop their own ideas. This type of MPE research may give hints to pathogenic mechanism of disease. The MPE idea can also be applied to drug (such as NSAIDs) research. Hence, this concept should be discussed in this review.

INITIAL REVIEW OF THE MANUSCRIPT

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- No

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[Y] No