



ESPS Peer-review Report

Name of Journal: World Journal of Gastrointestinal Oncology

ESPS Manuscript NO: 6472

Title: Novel Diet-related Mouse Model of Colon Cancer Parallels Human Colon Cancer

Reviewer code: 02445067

Science editor: Ling-Ling Wen

Date sent for review: 2013-10-22 13:44

Date reviewed: 2013-11-05 00:41

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

The authors provide a detailed histology of cancer development in their mouse model. Comments below are suggested to further clarify aspects of the reported study.

Abstract The aim is written as a sentence fragment and should be rephrased to clarify the Aim(s). Specify the age range rather than stating "young" mice.

Methods Specify source and collection of human tissues and experimental work conducted.

Results Suggest omitting Figure 2 as it does not seem essential. Figure 3 should show a corresponding proximal colon without tumours. Glare on the image should be removed to increase clarity of the image. Indicate tumours with arrow marker. The units on the ruler should be indicated or omit the ruler and insert a size bar.

Figure 4 The image is not of sufficient quality to observe the mucosal nodules specified in the legend for this figure.

Table 2 Would be helpful to have the body weight and age at termination included.

Figures 6 - 12, 17 Legends should specify annotation on the images. The location of the images within the colon should also be indicated in legends.

Sentence fragment "As reviewed by Scott et al.[25], 8-OH-dG is a carcinogenic DNA damage." should be revised. Different fonts used within the manuscript should be corrected. Use of gene symbols should be consistent e.g. *PNS2* and *Pms2* and gene symbols should be italicised. Results of body weights associated with CGA fed mice should be incorporated. Typo "eggplant" requires correction.

Discussion The experimental mice exhibited a wide range of body weights. It appears that some mice were underweight and others obese. Is this correct? This should be discussed further. Is this due to differing genetics, age related factors? Further insight on the role of the genetics of these mice would be helpful in interpreting the results. What was the variation in gene expression of the biomarkers studied in the group of mice? Are there marked differences in the expression of



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these markers in the parent strains?



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ESPS Manuscript NO: 6472

Title: Novel Diet-related Mouse Model of Colon Cancer Parallels Human Colon Cancer

Reviewer code: 01207047

Science editor: Ling-Ling Wen

Date sent for review: 2013-10-22 13:44

Date reviewed: 2014-01-08 23:12

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[] Grade A (Excellent)	[] Grade A: Priority Publishing	Google Search:	[] Accept
[Y] Grade B (Very good)	[Y] Grade B: minor language polishing	[] Existed	[] High priority for publication
[] Grade C (Good)	[] Grade C: a great deal of language polishing	[] No records	[] Rejection
[] Grade D (Fair)	[] Grade D: rejected	BPG Search:	[Y] Minor revision
[] Grade E (Poor)		[] Existed	[] Major revision
		[] No records	

COMMENTS TO AUTHORS

The authors analyzed a novel diet-related model of colonic adenocarcinoma of the mice parallels human colonic adenocarcinoma and effects of chlorogenic acid on molecular biomarkers. The manuscript has significance as a preliminary study. The significance of the study is limited by small number of cases in each groups of mouse and there is no statistical analysis. Comments: 1-Material & Methods- page 9, 8th line: It will be better to use "invasion through the muscularis mucosa, submucosa and muscularis propria" instead of "penetration of crypts". 2-It will be better to use "AC" instead of "ADCA". 3- It will be better to use "preneoplastic and neoplastic lesions" instead of "colon tumors". 4-- It will be better to use "low and high grade dysplasia" instead of "lesser and higher malignant potential". 5- It will be better to give "magnification of the objectives" instead of "scale barr". 6-Figure 11 B : Did large pale areas in the submucosa and muscularis propria represent large mucin pools? In Figure 12 B, It will be better to show this area (mucinous component) adjacent to invasive focus in the muscularis propria .



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ESPS Peer-review Report

Name of Journal: World Journal of Gastrointestinal Oncology

ESPS Manuscript NO: 6472

Title: Novel Diet-related Mouse Model of Colon Cancer Parallels Human Colon Cancer

Reviewer code: 00070919

Science editor: Ling-Ling Wen

Date sent for review: 2013-10-22 13:44

Date reviewed: 2014-01-11 22:51

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The author has investigated the diet-related model of colon cancer that parallels human progression to colon cancer, both from a histomorphological and molecular profile. This paper has some flaws: ---AIM should be re-written, since it does not look like a full sentence. ---The biggest drawback of this paper is the lack of statistical analysis. Methodological defect will greatly affect the persuasiveness of this article, though authors had done a fine job in morphological and molecular researches. ---It is better to delete Fig. 2. ---Additional factors such as weight loss, survival time could be included in the evaluation of mice fed diet+DOC. ---In IHC study, it is better to use semi-quantitative data to demonstrate the difference of expression of antibodies.



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Name of Journal: World Journal of Gastrointestinal Oncology

ESPS Manuscript NO: 6472

Title: Novel Diet-related Mouse Model of Colon Cancer Parallels Human Colon Cancer

Reviewer code: 02549473

Science editor: Ling-Ling Wen

Date sent for review: 2013-10-22 13:44

Date reviewed: 2014-01-16 10:36

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
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COMMENTS TO AUTHORS

COMMENTS: 1.- INTRODUCTION -- Most of the text presented in the Introduction section is indeed a discussion of results obtained either in the study itself and/or other studies. Therefore, it should be reallocated in the discussion section. Only the first two paragraphs would correspond to a formal Introduction. In order to enhance the text quality, I suggest to rephrase more (i.e. avoiding to repeat phrases such as "we show here", "we observed here").

2.- RESULTS -- Page 13, line 8 -- Such information should not be part of the text body. It should be placed in the figure legend and the electronic address put in the reference list.

3.- RESULTS -- Page 14, line 2 -- To the authors' minds, what is the reason why some mice in the control group developed tumors in the small intestine, whereas no mice in the study group (receiving the carcinogenic agent) showed these findings.

4.- RESULTS -- Comparison of human and mouse colonic tissues, again, looks more like a discussion rather than a study result.

5.- RESULTS -- Pages 21-25 -- Immunohistochemistry evaluation of molecular markers contains a mixture of some sort of background, methodology and results for each of the marker assessed. The results section of the manuscript should be reserved to study results solely.

6.- RESULTS -- Page 25, line 11 -- Weight distributions are outcome parameters not mentioned in the methods section.

This study is, undoubtedly, highly relevant for future research in human colonic cancer. Nonetheless, due to the aforementioned shortcomings, I can not recommend this manuscript for publication until a major revision is made.