

Response to editorial email of 25 July 2019:

Dear Editor,

Thank you for your comments

AS per the received email, all requirements were done and updated figures were submitted..

Please check Figure 2 and Fig 4 for the updates

- 1- Figure 4 is supplied now in decomposed editable format with all components including text decomposed and editable separately*
- 2- Scale bars were added to all staining figures (2 D & 4 a, B, C, D).*

Kind regards

Sincerely

Wael M Abdel-Rahman

Response to Reviewers of 9 May 2019:

Please, note that edits/updates are highlighted in yellow in the manuscript

Reviewer # 1

- To include more data about the samples in clinical samples and immunohistochemistry section :

Done: data and description of the samples are added in material and methods p 19 line 219 - 225; and also some data at the table footnote

- In World Health Organization (WHO) classification, a number of histologic variants of colorectal carcinomas are listed, such as mucinous, signet ring cell, medullary, micropapillary, serrated,, undifferentiated.

Done: data and description of the samples are added in material and methods p 19 line 219 - 225; and in the table

- Table 1 there is only differentiation/grade - this is not enough.

Done : 3 new rows about pathology types with correlation to staining were added, see also the new addition in materials & methods as above

- How was extracellular mucin, MSI, p53 evaluated (you can add description below the Table 1) - Table 1 -

Done. Addition done in the table footnote

Table title "clinical, pathological and molecular features OF WHAT? Please improve.

DONE. Added: Clinical, pathological and molecular features "of colorectal carcinomas"

Figure 4: Comment on figure legend and What was the histological type of poorly differentiated cancer?

Amended the legend and added 'adenocarcinoma'

Page 11, line 277 : authors wrote CNN3 positive expression was not related to p53 stabilization in primary tumors. Please explain, how did you analyze it.

- DONE: p53 characterization explained in materials & methods and Table footnote and supplied references there already.

Reviewer # 2

-"primary colon cancer cell line" in 63 line. As mentioned in their manuscript, "primary" means "uncultured". SW480 cells should be described as colorectal adenocarcinoma.

DONE. Suggested change introduced in lines 67 - 69, and maintained throughout the manuscript e.g. lines 241-242; 252-253.

- In Fig2B, when ZO-1 protein level was examined, We expect that the two lanes show the same result. Please explain this result.

The most likely explanation is an exceptional chance. Accordingly, we already did not include or rely on the siRNA results of ZO-1 for the silenced Sw620 cells in our results/discussion.

- Please correct "Vimentin" to 'vimentin" in the line 247 and "beta-catenin" to "beta-Catenin" in the line
DONE throughout the manuscript.