

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 54957

Title: Expression of Notch pathway components (Numb, Itch, and Siah-1) in colorectal tumors: a clinicopathological study.

Reviewer's code: 02440884

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: Germany

Author's Country/Territory: Turkey

Manuscript submission date: 2020-02-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-26 18:17

Reviewer performed review: 2020-02-26 20:20

Review time: 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The descriptive study is focused on Notch, Numb, Itch, and Siah-1 expression in normal colon as well as colon neoplasia (adenoma and carcinoma). The authors demonstrate data suggesting a role of increased Notch-1 and decreased Numb, Itch, and Siah-1 expression in carcinogenesis. Essential clinical, morphological, and immunohistochemical data are given. Comments 1. Is there any difference in the anti-Notch-1 immunostaining between villous and tubular adenoma? 2. To further clarify the role of the molecules in carcinogenesis the expression in the invasion front and in the junction between normal mucosa and carcinoma/ adenoma could be important. Is there any aberrant immunostained pattern in this regions?

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 54957

Title: Expression of Notch pathway components (Numb, Itch, and Siah-1) in colorectal tumors: a clinicopathological study.

Reviewer's code: 00074490

Position: Peer Reviewer

Academic degree: PhD

Professional title: Chief Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2020-02-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-26 13:05

Reviewer performed review: 2020-02-27 13:31

Review time: 1 Day

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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SPECIFIC COMMENTS TO AUTHORS

The authors found increased Notch-1 and loss of Numb, Itch, and Siah-1 expression were associated with carcinogenesis in CRC via IHC and RT-PCR. However, it was based on descriptive analysis, the causal relationship was not further explored. Some concerns were raised: 1. For serrated adenoma and serrated adenocarcinoma which account for 20-30% of CRC, could these findings also be observed? 2. The manuscript would be greatly enriched if the authors could use bioinformatics and gene expression level of Notch1, Numb, Itch, and Siah-1 expression to analyze the available TCGA data and compare them to the findings