



### PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 55572

**Title:** Overexpression of AMPD2 is poor prognosis for colorectal cancer patients via Notch3 signaling pathway

**Reviewer's code:** 02744973

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-03-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-03-24 10:30

**Reviewer performed review:** 2020-04-02 07:36

**Review time:** 8 Days and 21 Hours

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 Grade E: Do not publish            |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



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## **SPECIFIC COMMENTS TO AUTHORS**

The present paper evaluated the Overexpression of AMPD2 protein as a prognostic risk factor for colorectal cancer patients via Notch3 signaling pathway. The study is very interesting. However due to several language errors the paper is quite difficult to read. I have some concerns:

**In abstract:** this sentence is non-sense. Please re-written "Biological function enrichment analysis analysis indicated, and Notch pathway was strongly correlated to AMPD2 expression, and expression of Notch3 and JAG2 mRNA were positively associated with AMPD2 in colorectal cancer tissues."

**In text:**

**Introduction:**

- "In recent studys, there has been increasing interest to study the metabolic reprogramming in" The authors stated in recent studys (wrong plural word, use the right one "studies") however they cited only 1 study
- "abnormalities [6]. These findings These studies have given us inspiration as a metabolic tissu" This sentence has something wrong.... In addition the authors used Studies but the reference is only 1 .
- "It also shown that AMPD2 dramatically affects physiological and pathological processes" Please check this sentences it seems you miss something

**Discussion:**

- Metabolic intermediate and related metabolites, widely present in cells of myometrial and glandular tissues [16]. It is associated metabolic pathway have been reported to be central to cancer growth and metastasis. I don't understand what Authors means. Please re-written

**Introduction:** could be shortened

**Methods:** good.

**Results:** Good.

**Discussion:** A limitation of the study section need to include



### PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 55572

**Title:** Overexpression of AMPD2 is poor prognosis for colorectal cancer patients via Notch3 signaling pathway

**Reviewer's code:** 00503405

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Senior Lecturer, Senior Scientist

**Reviewer's Country/Territory:** Hungary

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-03-24

**Reviewer chosen by:** Ruo-Yu Ma (Quit in 2020)

**Reviewer accepted review:** 2020-04-13 16:03

**Reviewer performed review:** 2020-04-13 16:26

**Review time:** 1 Hour

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



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#### **SPECIFIC COMMENTS TO AUTHORS**

In this original article the authors aimed to summarize and analyze gene expression data of TCGA-COAD, and obtain the expression features of AMPD2 in cancer tissues and adjacent tissues in patients with CRC. They used *in silico*, TMA and cell culture models for their study. They found that overexpressed AMPD2 can promote CRC progression by augmenting tumor proliferation and halting apoptosis, and can be served as a poor prognostic marker for CRC patients. They also provide the evidence that Notch pathway may affect proline metabolism via AMPD2 in CRC. The study is well designed, well documented and well presented. The results are clear, precise and logical. Formally, the Discussion is too short, more perspectives (therapeutic possibilities) must be discussed. English language needs minor polishing. After minor revision I suggest to reconsider the manuscript for a possible publication.



### PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 55572

**Title:** Overexpression of AMPD2 is poor prognosis for colorectal cancer patients via Notch3 signaling pathway

**Reviewer's code:** 02534438

**Position:** Peer Reviewer

**Academic degree:** MD, MSc, PhD

**Professional title:** Academic Research, Assistant Professor, Attending Doctor, Doctor, Lecturer, Research Associate, Research Scientist, Senior Scientist, Surgeon

**Reviewer's Country/Territory:** Croatia

**Author's Country/Territory:** China

**Manuscript submission date:** 2020-03-24

**Reviewer chosen by:** Ruo-Yu Ma (Quit in 2020)

**Reviewer accepted review:** 2020-04-03 19:05

**Reviewer performed review:** 2020-04-19 09:08

**Review time:** 15 Days and 14 Hours

|                           |   |
|---------------------------|---|
| <b>Scientific quality</b> | <input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good<br><input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish            |
| <b>Language quality</b>   | <input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing<br><input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection |
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| <b>Re-review</b>          | <input type="checkbox"/> Yes <input type="checkbox"/> No  |
| <b>Peer-reviewer</b>      | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous   |



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statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### **SPECIFIC COMMENTS TO AUTHORS**

Dear Sir, I read with care the manuscript titled "Overexpression of AMPD2 protein is a prognostic risk factor for colorectal cancer patients via Notch3 signaling pathway". It presents a novel and interesting ideas that are well supported by the results.