

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 61980

**Title:** Survival-associated alternative splicing events interact with immune microenvironment in stomach adenocarcinoma

**Reviewer's code:** 00183481

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

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

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

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**Reviewer chosen by:** Jin-Lei Wang

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<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The authors conducted database search to determine survival-associated alternative splicing (AS) events in stomach adenocarcinoma (STAD). AS events in STAD were detected from TCGA SpliceSeq database and constructed an AS-signature prognostic model. The obtained data were visualized clearly using some network analysis. The association between OS-related AS events and cancer immunity was also investigated. This manuscript showing a systematic analysis of AS in STAD is extremely important and acceptable to World Journal of Gastroenterology, with some modifications. Major point The signature model of OS-related AS events was the most important findings of this study. Please explain the methodology in more details in the Materials and Methods (section 2.5). How do you divided the STAD samples into two subtypes (high- and low-risk-score groups). Please show equations and boundaries if available. The result is also needed to be revised; “On the basis of the OS-related AS-event signature model, the STAD samples were clustered into high- and low-risk-score groups (median risk score = 0.87). (Page 7)” needs median risk score in high-risk-score group. Minor points 1. In Introduction, “(CD44 | 14986 | ES, PPHLN1 | 21214 | AT, RASSF4 | 11351 | ES, KIAA1147 | 82046 | AP, PPP2R5D | 76200 | ES, LOH12CR1 | 20507 | ES, CDKN3 | 27569 | AP, UBA52 | 48486 | AD, CADPS | 65499 | AT, SRSF7 | 53276 | RI, and WEE1 | 14328 | AP)” (Page 3) should be deleted, since they are results. In discussion, they appeared again (Page 10). 2. Is “the OS-related DEAS prognostic model” in section 2.6 mistyping? 3. The examples shown in “for example, four types of AS events were detected for IL32, including IL32 | 33378 | RI, ..... ZNF436 (ZNF436 | 1050 | AP, ZNF436 | 1051 | AP, ZNF439 | 47755 | AP, and ZNF439 | 47756 | AP).” (Page 5) could be shown in supplementary tables. 4. “OS-associated AS events” and “OS-related AS events” are used. Any differences? 5. “including the phospholipase D signaling pathway, platelet



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activation, phosphatidylinositol signaling system, ....., sphingolipid signaling pathway, and RNA transport." (Page 6) can be deleted, since they are shown in Figure 3A. 6. AS of SRSF7 is not indicated in the discussion (Page 10). Is it already reported or novel in STAD?