

PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 84754

Title: Comprehensive Analysis of Cell-ECM Protein Ras Suppressor-1 (RSU-1) in Function and Prognosis of Gastrointestinal Cancers

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03538668

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Cyprus

Author's Country/Territory: China

Manuscript submission date: 2023-03-27

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-18 12:21

Reviewer performed review: 2023-05-04 02:29

Review time: 15 Days and 14 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☐ Grade A: Priority publishing ☒ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☐ Minor revision ☒ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No

Peer-reviewer statements	Peer-Review: [☐] Anonymous [☒] Onymous
	Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

This article by Xu et al entitled “Comprehensive Analysis of Cell-ECM Protein Ras Suppressor-1 (RSU-1) in Function and Prognosis of Gastrointestinal Cancers” is an interesting article on the role of Ras Suppressor -1 in gastrointestinal cancers. The study is based on a bioinformatics analysis using the GEPIA dataset in the pool of gastrointestinal track patients while the Kaplan-Meier plotter and other enrichment tools were also used. The authors showed that high RSU1 expression was associated with poor overall survival of gastric cancer patients and immune marker sets in M2 macrophage, DCs and T cell exhaustion. It is a valuable study as it evaluates via bioinformatics analysis the involvement of RSU1 in gastric cancer and yields some very interesting and novel results that could potentially indicate that RSU1 is a prognostic biomarker for this type of cancer. Major comments 1.Although the manuscript is well written and the work involves an interesting cell-ECM molecule that is not well studied with very interesting results, it only involves bioinformatics analysis. Therefore, some kind of validation either in cell lines or human samples is urgently needed. 2.Figure 6 contains too many panels with too small font size and it is almost impossible to discern the letters. The quality should be enhanced. Minor comments In the abstract and introduction section, the authors claim that “RSU1 negatively regulating tumor proliferation”. There are studies though that show the opposite regarding proliferation. Therefore this sentence need to be modified accordingly.

PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 84754

Title: Comprehensive Analysis of Cell-ECM Protein Ras Suppressor-1 (RSU-1) in Function and Prognosis of Gastrointestinal Cancers

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06048698

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2023-03-27

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-05-23 06:41

Reviewer performed review: 2023-05-24 01:58

Review time: 19 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☒ Grade A: Excellent ☐ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☒ Grade A: Excellent ☐ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☒ Grade A: Priority publishing ☐ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☒ Accept (General priority) ☐ Minor revision ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

1. This study provides insights into the potential role of RSU1 in tumor immunology and its prognostic value. 2. The discussion section briefly lists the role of RSU1 in various diseases, please discuss the function of RSU-1 in gastrointestinal cancer in detail according to the topic. 3. The conclusion part is too simple, please flesh out the content.

PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 84754

Title: Comprehensive Analysis of Cell-ECM Protein Ras Suppressor-1 (RSU-1) in Function and Prognosis of Gastrointestinal Cancers

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01589311

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2023-03-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-04-10 11:59

Reviewer performed review: 2023-05-24 10:02

Review time: 43 Days and 22 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☐ Grade A: Priority publishing ☒ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☒ Accept (General priority) ☐ Minor revision ☐ Major revision ☐ Rejection
Re-review	☐ Yes ☒ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

Dear Associate Editor of WJG Manuscript ID: WJG-84-754, " Comprehensive Analysis of Cell-ECM Protein Ras Suppressor-1 (RSU-1) in Function and Prognosis of Gastrointestinal Cancers ". Comments to the Editor This study by Xu and colleagues investigates the differential expression of Ras suppressor 1 (RSU1) in different gastrointestinal tumors and their corresponding normal tissues. The investigation utilized a platform including RNA sequencing data from 9736 tumor tissues and 8587 normal tissues from The Cancer Genome Atlas and GTEx databases. For this purpose, the investigators performed several analyses, including gene expression, gene correlation, survival, signaling pathways involved, and immune infiltration regulated by RSU1 in gastrointestinal tumors. The investigators present a statement of No-Approval Form, meaning that NO-animal experiment was conducted or NO-Human Participants were involved. The authors provide a certificate of language review, following standard scientific English writing guidelines, and a biostatistical analysis certificate. Overall, the study is well-designed, deals with a relevant subject, and presents an analysis of the expression of RSU1, as a potential biomarker for practical application for patients with

gastrointestinal cancers. The analysis has a retrospective nature, but the results present some new numbers that support the hypothesis based on previous theoretical information on the subject. Tables and figures are self-explanatory and with meaningful content for the analysis. The authors acknowledge on potential limitations of the study and present a total of 31 well-chosen references, 70% from the last 5 years. Minor points:

- Describe in more detail the study design and the origin of the data.
- Describe in more detail how the analyses were performed.
- Language polishing is necessary - This is an interesting study by Xu and colleagues investigating the differential expression of Ras suppressor 1 (RSU1) in different gastrointestinal tumors and their corresponding normal tissues. The investigation utilized a platform including RNA sequencing data from 9736 tumor tissues and 8587 normal tissues from The Cancer Genome Atlas and GTEx databases. For this purpose, the investigators performed several analyses, including gene expression, gene correlation, survival, signaling pathways involved, and immune infiltration regulated by RSU1 in gastrointestinal tumors. Overall, the study is well-designed, deals with a relevant subject, and presents an analysis of the expression of RSU1, as a potential biomarker for practical application for patients with gastrointestinal cancers. The analysis has a retrospective nature, but the results present some new numbers that support the hypothesis based on previous theoretical information on the subject. Tables and figures are self-explanatory and with meaningful content for the analysis. The authors acknowledge on potential limitations of the study and present a total of 31 well-chosen references, 70% from the last 5 years. Minor points:
- Describe in more detail the study design and the origin of the data.
- Describe in more detail how the analyses were performed.
- Language polishing is necessary -