



**PEER-REVIEW REPORT**

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 112894

**Title:** Novel insights into SL 6A8 in colorectal cancer

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer’s code:** 08628847

**Position:** Peer Reviewer

**Academic degree and professional title:** Associate Professor, Associate Research Scientist

**Reviewer’s Country/Territory:** China

**Author’s Country/Territory:** China

**Manuscript submission date:** 2025-08-08

**Reviewer chosen by:** AI Editor

**Reviewer accepted review:** 2025-08-14 18:58

**Reviewer performed review:** 2025-08-21 15:39

**Review time:** 6 Days and 20 Hours

<b>Content to be reviewed</b>	<p>Does the manuscript’s content fall within the scope of the journal? <b>Yes</b></p> <p>Is there any Key Word that is not included in the manuscript title? <b>No</b></p> <p>Do authors’ affiliations correspond to the content of the manuscript? <b>Yes</b></p> <p>Does the Abstract contain the contents of each part of the manuscript (IMRaD)? <b>Yes</b></p> <p>Are the Key Words complete? <b>Yes</b></p>
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Is the content of the Introduction adequate? **Not Applicable**

Is the content of the Materials and Methods complete? **Not Applicable**

Is the description of the experiments clear and complete? **Not Applicable**

Are the experimental data presented in the manuscript's biostatistics content reliable? **Not Applicable**

Are the experimental data of the Results true and reliable? **Not Applicable**

Are the quality and resolution of the images up to standard? **Not Applicable**

Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Not Applicable**

Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **Not Applicable**

Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Not Applicable**

Is the content of the Discussion reasonable? **Not Applicable**

Is the Conclusion reasonable? **Not Applicable**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **No**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **No**

Is the manuscript's text correct, concise, and clear? **Yes**



	Will the manuscript's content be of interest to readers? <b>Yes</b> Are additional experiments needed for the study? <b>No</b> Does the research scope comply with ethics? <b>Not Applicable</b>
<b>Scientific quality</b>	Grade A (Excellent)
<b>Novelty of this manuscript</b>	Grade B (Very Good)
<b>Creativity or innovation of this manuscript</b>	Grade B (Very Good)
<b>Scientific significance of the conclusion in this manuscript</b>	Grade B (Very Good)
<b>Language quality</b>	Grade A (Excellent)
<b>Does this manuscript describe a study of the existing knowledge system?</b>	Yes
<b>Does this manuscript report a revolutionary innovation?</b>	No
<b>Does this manuscript report an unconventional innovation?</b>	No
<b>Conclusion</b>	Minor revision
<b>Re-review</b>	No
<b>Peer-reviewer statements</b>	Peer-Review: Anonymous
	Conflicts-of-Interest: No
<b>Are your review comments generated by AI tools?</b>	No

### SPECIFIC COMMENTS TO AUTHORS

This comment provides a clear review of the role of SLC16A8 in the hypoxic microenvironment of colorectal cancer (CRC), emphasizing its clinical relevance and the



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innovative dual-pathway mechanism involving glycolysis and endo-mesenchymal transition. The manuscript does well in highlighting how SLC16A8 contributes to the metabolic adaptation of CRC cells under hypoxic conditions, potentially opening new therapeutic avenues. However, the manuscript requires revisions to enhance the depth and rigor of the commentary, especially in addressing the limitations of the original study.

The commentary should delve deeper into the limitations of the original study, particularly its reliance on siRNA knockdown as the sole method for validating the findings. While siRNA is a common approach, it does not provide conclusive evidence of causality or comprehensive insights into the physiological roles of the gene in question. The manuscript should explore how these limitations might impact the reliability of the conclusions drawn, such as whether the observed effects are truly representative of the gene's function in CRC. Additionally, the small sample size of the study poses a concern regarding the generalizability of the results. The authors should discuss how these factors may affect the broader applicability of the conclusions in clinical practice and the need for further validation in larger, more diverse cohorts.

Moreover, the structure and content should be expanded to incorporate the latest research advances in SLC16A8 and its role in other cancers or in metabolic processes outside of CRC. This would provide a more comprehensive context for understanding the broader implications of the findings.

The manuscript's outline should be updated to reflect these new themes, ensuring the review aligns with the evolving scientific landscape.

Lastly, the "Core Tip" should be more concise and focused on the key takeaways of the commentary. It should succinctly summarize the main findings and their clinical relevance.

Although the overall writing style is fluent, there is room for improvement in clarity and



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wording, particularly in sections that discuss complex molecular mechanisms.

A comprehensive review and revision of the entire text is necessary to address these issues and improve the manuscript's overall quality.



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**Reviewer's code:** 05693415

**Position:** Peer Reviewer

**Academic degree and professional title:** Associate Professor, PhD

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

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

**Manuscript submission date:** 2025-08-08

**Reviewer chosen by:** Jia-Lin Zhang

**Reviewer accepted review:** 2025-08-15 07:43

**Reviewer performed review:** 2025-08-28 01:49

**Review time:** 12 Days and 18 Hours

<b>Content to be reviewed</b>	Does the manuscript's content fall within the scope of the journal? <b>Yes</b> Is there any Key Word that is not included in the manuscript title? <b>Yes</b> Do authors' affiliations correspond to the content of the manuscript? <b>Yes</b> Does the Abstract contain the contents of each part of the manuscript (IMRaD)? <b>Yes</b> Are the Key Words complete? <b>Yes</b> Is the content of the Introduction adequate? <b>Not</b>
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**Applicable**

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**Not Applicable**

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Is the Conclusion reasonable? **Yes**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **No**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **No**

Is the manuscript's text correct, concise, and clear? **Yes**

Will the manuscript's content be of interest to readers?



	<b>Yes</b> Are additional experiments needed for the study? <b>No</b> Does the research scope comply with ethics? <b>Not Applicable</b>
<b>Scientific quality</b>	Grade B (Very good)
<b>Novelty of this manuscript</b>	Grade B (Very Good)
<b>Creativity or innovation of this manuscript</b>	Grade B (Very Good)
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<b>Conclusion</b>	Minor revision
<b>Re-review</b>	No
<b>Peer-reviewer statements</b>	Peer-Review: Anonymous
	Conflicts-of-Interest: No
<b>Are your review comments generated by AI tools?</b>	No

### SPECIFIC COMMENTS TO AUTHORS

Reviewer's report on a manuscript entitled

“Novel Insights into SLC16A8 in Colorectal Cancer”

In the present study, the authors studied the mechanisms by which SLC16A8 regulates



the tumor microenvironment and provides novel guidance and references for the clinical treatment of colorectal cancer (CRC). The subject is interesting and gives an overview of the possible mechanisms related to the development of colorectal cancer. However, the authors still need to address some issues, so the study needs minor revision.

Comments:

- Title: concise and interesting.
- Abstract: good, but can be expanded because it is not informative enough:
  - Suggestion: Briefly summarize: Why the topic is important & The key contribution of the original paper
- Core tip: good and clear.
- Main text: I think it needs more references related to the topic.
- Limitation: Add a sentence on how these limitations can be addressed in future studies.
- Language and style:
  - Avoid phrases like “highly enlightening,” “outstanding insights,” which sound promotional rather than academic.
  - Replace with objective statements:  
“The study provides valuable evidence supporting...”