

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 81026

Title: Contributions of the receptor for advanced glycation end products axis activation in gastric cancer

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06395430

Position: Peer Reviewer

Academic degree: DPhil, PhD

Professional title: Researcher, Senior Researcher

Reviewer's Country/Territory: India

Author's Country/Territory: Chile

Manuscript submission date: 2022-10-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-22 02:47

Reviewer performed review: 2022-10-29 09:40

Review time: 7 Days and 6 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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" 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

SPECIFIC COMMENTS TO AUTHORS

The manuscript is well written but it needs minor revision. Here are some suggestions.....

Ques1. The introduction is not informative, please add a few more related to the RAGE AXIS CONTRIBUTION. My suggestion is also to fully rewrite this section to answer the following questions: (i) Why is this topic relevant, and what is known about it? (ii) Which are the gaps you plan to address and how do you problematize them? (iii) How do you plan to close/address those gaps? (iv) Which are the main contributions of your study? Ques 2. Also add new references in the introduction part. (i) Islam, F., Mitra, S., Emran, T. B., Khan, Z., Nath, N., Das, R., ... & Kim, B. (2022). Natural Small Molecules in Gastrointestinal Tract and Associated Cancers: Molecular Insights and Targeted Therapies. *Molecules*, 27(17), 5686. (ii)

Kanaoujiya, R., Porwal, D., & Srivastava, S. (2022). Applications of nanomaterials for gastrointestinal tumors: A review. *Frontiers in Medical Technology*, 4,1-7. (iii) Maya, K., Rane, L., Ahmed, T. I., Ansari, M. J., Dixit, C. K., & Kanaoujiya, R. (2022). L-Cysteine Passivated Carbon Quantum Dots as Biosensor for Early Stage Detection of Prostate Cancer. In *Advances in Science and Technology* (Vol. 117, pp. 67-72). Trans Tech Publications Ltd. (iv) Sakellariou, S., Fragkou, P., Levidou, G., Gargalionis, A. N., Piperi, C., Dalagiorgou, G., ... & Korkolopoulou, P. (2016). Clinical significance of AGE-RAGE axis in colorectal cancer: associations with glyoxalase-I, adiponectin receptor expression and prognosis. *BMC cancer*, 16(1), 1-14. Also add new references in the Tumor cell proliferation and survival. (v) Kanaoujiya, R., Singh, D., Minocha, T., Yadav, S. K., & Srivastava, S. (2022). Synthesis, characterization of ruthenium (III) macrocyclic complexes of 1, 4, 8, 11-tetraazacyclotetradecane (cyclam) and in vitro



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assessment of anti-cancer activity. *Materials Today: Proceedings*. Volume 65, Part 8, 2022, Pages 3143-3149. Quest 3. Keywords must reflect the main characteristic words of the paper (usually reflected also by the title) in the best way to increase the paper's relevance and chances to be found when searching it after keywords. Ques 4. Please check the abstract and Future perspective and it should be improved. Ques 5. English is modest. Therefore, the authors need to improve random grammatical, typological, and formatting errors need to be encountered. Ques 6. Although mentioned in running texts, many short forms are not in the list of abbreviations. Ques 7. Please add 2-3 more figures. Based on the above observation I am of the opinion that the manuscript meets the standard general and it could have been accepted after fulfilling the above-mentioned corrections.

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Reviewer's code: 06409829

Position: Peer Reviewer

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Author's Country/Territory: Chile

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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
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	Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No

SPECIFIC COMMENTS TO AUTHORS

This study reveals the critical contribution of the RAGE axis activation in the development of neoplasms, including gastric cancer. And the contribution of some single nucleotide polymorphisms in the RAGE gene as susceptibility or poor prognosis factors are also discussed. In my opinion, this manuscript is logically rigorous and generally of high quality. But there are still some issues to be resolved. Here are my suggestions and questions:

- 1.The author is advised to add line numbers to facilitate the discussion of the problem.
- 2."Helicobacter pylori (H. pylori) infection is considered ... carcinogenesis" in EPIDEMIOLOGY. Logically, cancer risk factors should not include carcinogenesis.
- 3.First sentence of the INFLAMMATION AND GASTRIC CANCER section, should have a reference
- 4.The focus of this paper is on RAGE axis activation in gastric cancer, and the excessive description of the EPIDEMIOLOGY section and the INFLAMMATION AND GASTRIC CANCER section is lengthy. In addition, the second half of the INFLAMMATION AND GASTRIC CANCER section overlaps with the EPIDEMIOLOGY section.
- 5.H. PYLORI-MEDIATED INFLAMMATION section, What are the specific pathways that H. pylori infection leads to inflammation? "compelling body of evidence supports the relevance" How does the evidence support the relevance?
- 6.This paper seldom elaborates on the innovativeness and practical significance of the manuscript. This has important implications for the assessment of the value of this paper.
- 7.It is suggested to add more concluding paragraphs or pictures to the sections on Cancer cell invasion and Dissemination and metastasis. The pathways involved in these sections are complex, and summarizing these will make it easier to read.
- 8.Many parts of the author's manuscript are just a list of previous studies, lacking in-depth excavation

and thinking, and some citations are not necessary. Properly highlighting key points and summarizing them can better explain the topic of "contributions". Overall, the manuscript is comprehensive in terms of expounding the contributions of the RAGE axis in GC, and the language is suitable for publication.