PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Oncology

Manuscript NO: 91958

Title: MiR-145-5p inhibits gastric cancer progression via SERPIN -ERK1/2 axis.

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 03976790

Position: Editor-in-Chief

Academic degree: DSc, PhD

Professional title: Emeritus Professor

Reviewer’s Country/Territory: France

Author’s Country/Territory: China

Manuscript submission date: 2024-01-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2024-01-19 17:19

Reviewer performed review: 2024-01-28 12:49

Review time: 8 Days and 19 Hours

<table>
<thead>
<tr>
<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
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<tr>
<td>Novelty of this manuscript</td>
<td>Grade A: Excellent</td>
<td>Grade B: Good</td>
<td>Grade C: Fair</td>
<td>Grade D: No novelty</td>
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<td>Creativity or innovation of this manuscript</td>
<td>Grade A: Excellent</td>
<td>Grade B: Good</td>
<td>Grade C: Fair</td>
<td>Grade D: No creativity or innovation</td>
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SPECIFIC COMMENTS TO AUTHORS
Comments about the manuscript: “MiR-145-5p inhibits gastric cancer progression via SERPINE1-ERK1/2 axis” MicroRNAs that regulate gene expression are important in cancer physiology. However, their involvement in gastric cancer (GC) is not yet well known. The aim of the study presented here was to understand the molecular mechanism of miR145-5p on proliferation, apoptosis, invasion, epithelial-mesenchymal transition and metastasis formation in gastric cancer. To do this, the authors demonstrated the expression of miR-145-5p and serpin family E member 1 (SERPINE1) in gastric cancer tissues. The work concluded that miR-145-5p could affect proliferation, migration and invasion by negatively regulating SERPINE1 levels and controlling the extracellular protein-regulated kinase-1/2 (ERK1/2) pathway. the signal. This important work, which seems to me to be well done, provides useful elements for understanding gastric cancers. However, the manuscript requires some improvements before considering its publication. Page 5, line 85. “Following the provided guidelines” seems to me to be not sufficient for a scientific article: briefly describe the method used. Page 7, line 32. “0.1% crystal violet”: what was the diluent? Methanol? Ethanol? Buffer? Water?
Please specify. Page 7, line 35. “according to the instructions”: briefly describe the method used (see above). Page 7, line 37. “were collected by centrifugation”: what were the characteristics of centrifugation? Speed (in g number), duration? Page 12, line 51. “and EMT”: also write EMT in full if it is not written above. Generally speaking, given the number of abbreviations used, it would be useful to have a table of abbreviations at the beginning or end of the text. Page 16, line 37: use italics to write “Helicobacter pylori”. Page 18, line 78. “D. Differentially expressed of SERPINE1 mRNA”: explain the micrographs: is it an immunohistochemical reaction? Was DAB used as a chromogen? Is the technique described in the materials and methods? Page 18, line 85 “D. Transwell invasion”: specify the staining used to detect the cells. Page 19, line 95: in figure 8, add the staining used. Page 19, line 98. “Expression of Ki67”: is this technique described in the material and methods? In general, carefully check whether all the techniques (visualization and others) have been described in the materials and methods; recall the techniques used in the legend of the figures.