

## PEER-REVIEW REPORT

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

**Manuscript NO:** 81989

**Title:** Antihepatoma Peptide, Scolopentide, Derived from the Centipede Scolopendra subspinipes mutilans

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

**Peer-review model:** Single blind

**Reviewer's code:** 05429043

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Assistant Professor

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

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

**Manuscript submission date:** 2022-12-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-19 05:05

**Reviewer performed review:** 2022-12-19 10:26

**Review time:** 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<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

1. Introduction part: The work is quite interesting but needs clarity in some portions for example However, current studies focus on antimicrobial and anticoagulation agents rather than tumours. However, the loss of p53 is common in the clinic

2. Methodology part: Cells at the logarithmic growth stage were collected, and the density was adjusted to  $1 \times 10^4$  cells/mL (usually in 96 wells, it is very difficult to seed 10000 cells) Please check the cell count

3. Result: Instead of using g suppression ratio, it would be good to use relative cell viability (figure 1) a. Not much difference in tumour treated (figure 3) b. Figure 4..the concentration of the image is not specified c. figure 5 is overwhelming with many pictures, it is confusing d. all the figures resolution should be 300dpi e. "a CCK8 assay showed that the IC<sub>50</sub> were 22.06  $\mu$ g/mL (extracted scolopentide) and 237.726  $\mu$ g/mL (synthesized scolopentide), which indicates the antihepatoma activity of synthesized scolopentide was weaker than that of the extracted scolopentide.: please justify that..why the same compound has activity difference. It should not be so. or else activity is lost during synthesis. Find out the reason and repeat the experiment

4. Whether the authors used extracted /synthesized compounds for further studies

5. The synthesis part is missing in the methodology

6. Figure 7 is graphical abstract. it should be clear with all points

7. Discussion and conclusion should be elaborated with more supporting literature

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**Reviewer's code:** 05457095

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2022-12-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-12-26 15:39

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**Review time:** 17 Days and 19 Hours

<b>Scientific quality</b>	<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
<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 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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<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**

I consider the work to be very good and complete and with a little tidying up it is ready for publication.