

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 42372

Title: Effect of photodynamic therapy using (17R, 18R)-2-(1-Hexyloxyethyl)-2-devinyl chlorine E6 trisodium salt on pancreatic cancer in vitro and in vivo

Reviewer's code: 03656606

Reviewer's country: China

Science editor: Ruo-Yu Ma

Date sent for review: 2018-09-25

Date reviewed: 2018-09-27

Review time: 2 Days

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|--|---|--|---|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | <input type="checkbox"/> Accept | Peer-Review: |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language | (High priority) | <input checked="" type="checkbox"/> Anonymous |
| <input type="checkbox"/> Grade C: Good | polishing | <input checked="" type="checkbox"/> Accept | <input type="checkbox"/> Onymous |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade C: A great deal of | (General priority) | Peer-reviewer's expertise on the |
| <input type="checkbox"/> Grade E: Do not | language polishing | <input type="checkbox"/> Minor revision | topic of the manuscript: |
| publish | <input type="checkbox"/> Grade D: Rejection | <input type="checkbox"/> Major revision | <input checked="" type="checkbox"/> Advanced |
| | | <input type="checkbox"/> Rejection | <input type="checkbox"/> General |
| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

Photodynamic therapy is an option for patients with unresectable malignant tumor including pancreatic cancer. Various photosensitizers had been used and presented different effects. A new photosensitizer, known as YLG-1, was investigated in this



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manuscript. By studies in vitro and in vivo, YLG-1-PDT presented potent antitumor effect on pancreatic cancer, which seemed to be associated with inducing ROS and promoting apoptosis. For most patients with pancreatic cancer, palliative therapy is needed to improve the prognosis. PDT is a promising palliative modality to control the growth of pancreatic cancer and the selection of appropriate photosensitizer is important for the final therapeutic outcome. This manuscript showed a novel photosensitizer with great antitumor characteristics and explored the potential mechanisms. I think the work of the authors is interesting and has potential value for treatment of pancreatic cancer.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

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Manuscript NO: 42372

Title: Effect of photodynamic therapy using (17R, 18R)-2-(1-Hexyloxyethyl)-2-devinyl chlorine E6 trisodium salt on pancreatic cancer in vitro and in vivo

Reviewer's code: 02544565

Reviewer's country: United States

Science editor: Ruo-Yu Ma

Date sent for review: 2018-09-25

Date reviewed: 2018-10-08

Review time: 13 Days

| SCIENTIFIC QUALITY | LANGUAGE QUALITY | CONCLUSION | PEER-REVIEWER STATEMENTS |
|--|--|--|---|
| <input type="checkbox"/> Grade A: Excellent | <input checked="" type="checkbox"/> Grade A: Priority publishing | <input checked="" type="checkbox"/> Accept | Peer-Review: |
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| <input type="checkbox"/> Grade C: Good | polishing | <input type="checkbox"/> Accept | <input type="checkbox"/> Onymous |
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| | | <input type="checkbox"/> Rejection | <input checked="" type="checkbox"/> General |
| | | | <input type="checkbox"/> No expertise |
| | | | Conflicts-of-Interest: |
| | | | <input type="checkbox"/> Yes |
| | | | <input checked="" type="checkbox"/> No |

SPECIFIC COMMENTS TO AUTHORS

This is the paper about the effect of PDT on pancreatic cancer using YLG-1 as a novel photosensitizer. This is a very interesting and novel approach for pancreatic cancer treatment. The author elucidated the mechanism of YLG-1 clearly and showed the



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significant effects in in vivo study. The paper is well written and the flow of the study is very reasonable. One thing, it is recommended to add the explanation about the spirulina. (Ex, spirulina is being taken as a supplement recently but has a light sensitivity as a side effects. Then YLG-1 was extracted as a causative agent and then recognized as a photosensitizer.)

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