

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 83850

Title: Application of G-quadruplex targets in gastrointestinal cancers: Advancements, challenges and prospects

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04423126

Position: Editorial Board

Academic degree: FACS

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2023-02-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-02-28 06:41

Reviewer performed review: 2023-02-28 07:27

Review time: 1 Hour

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 Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 paper gives an overview of application of G-quadruplex targets in gastrointestinal cancers. With over 200 references, comprehensive research with highly topical articles on this topic has been compiled here. The latest results show the current state of research. The article is well prepared and understandable for the reader.

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Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06106397

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2023-02-11

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-03-07 03:51

Reviewer performed review: 2023-03-08 07:17

Review time: 1 Day and 3 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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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 authors reported a comprehensive review the application of G-quadruplex targets in gastrointestinal cancers. The recent advancements, challenges and prospects of targeting G-quadruplex for using as a therapeutic meaning against gastrointestinal cancers has been thoroughly analyzed by the authors. Detailed references are cited and largely covered the area of interested. The information presented could be useful and attractive a broad readership. The manuscript is thus suggested for publication in World Journal of Gastrointestinal Oncology. However, the authors are strong recommended for addressing some minor points to further improve the quality and the attractiveness of the review. Details are listed as follows: 1. Introduction: the authors should mention a time frame of the literatures that have been intensively discussed in the manuscript. G-quadruplexes are also drug targets of other cancers but not only gastrointestinal cancers. The authors should briefly mention about this fact. 2. Prospect: The authors should briefly describe wider on the use of G-quadruplexes as the drug targets against human diseases, such as antiviral, antibacterial, etc..., and citing the most recent review articles such as Viral G-quadruplexes: New frontiers in virus pathogenesis and antiviral



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therapy, Annu Rep Med Chem. 2020; 54: 101-131; Structurally diverse G-quadruplexes as the noncanonical nucleic acid drug target for live cell imaging and antibacterial study, Chem. Commun., 2023, 59, 1415-1433; etc... 3. The conclusion: The conclusion in its current form is not sound. It could be presented better. Authors at least conclude why G-quadruplexes are better and promising drug target than other target against gastrointestinal cancers. 4. Some grammatical errors found. The authors please check carefully again before publishing the review. - Line 543: "have been focus of" - Line 632: "evidence has shown"

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Manuscript NO: 83850

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Peer-review model: Single blind

Reviewer's code: 05849479

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2023-02-11

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-03-12 12:24

Reviewer performed review: 2023-03-22 16:09

Review time: 10 Days and 3 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
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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 article summarizes the advantages and disadvantages of G-quadruplexes by describing its characteristics and different sites and functions in various gastrointestinal tracts, and provides research ideas for future research. Excellent manuscript. Fluent and logic.