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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 74912

Title: Accumulation of poly (adenosine diphosphate-ribose) by sustained supply of calcium inducing mitochondrial stress in pancreatic cancer cells

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05935626
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Indonesia

Author's Country/Territory: South Korea

Manuscript submission date: 2022-01-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-13 16:47

Reviewer performed review: 2022-01-13 19:22

Review time: 2 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I would like to congratulate the authors for this manuscript. This study is interesting and can bring new perspective. The manuscript is well prepared. I have some comments about the manuscript: Materials and methods: please refer related previous study on the methods that you use. Statistical analysis: please provide the biostatistics review certificate signed by a biostatistician. Figure legends: Information about Figure 2 section F is missing. Figure 2 section E & F please address accordingly.

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Peer-review model: Single blind

Reviewer's code: 03706467
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Associate Professor, Doctor, Postdoc
Reviewer's Country/Territory: China
Author's Country/Territory: South Korea

Manuscript submission date: 2022-01-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-15 07:38

Reviewer performed review: 2022-01-18 03:21

Review time: 2 Days and 19 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This study describes the potential anti-cancer effects of continuous calcium supplementation leading to excessive PAR accumulation on pancreatic cancer. It is well known that pancreatic cancer is highly refractory, and we need to investigate new anti-cancer mechanisms, so the study has potential scientific value. The study offers potential ideas for the clinical treatment of pancreatic cancer. Overall, the full text is quite well organized. However, several minor issues need to be addressed. 1. Insufficient photos of animals and tumors were provided for the animal experiments, and it is recommended that all photos of animals and tumors should be supplemented by subgroups. 2. Some of the references are outdated, and it is suggested that references from the last 3 years be cited.

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Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03199037
Position: Editorial Board
Academic degree: MD

Professional title: Director, Doctor, Full Professor

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2022-01-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-16 11:22

Reviewer performed review: 2022-01-25 02:56

Review time: 8 Days and 15 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This study reported that sustained calcium supply led to the increasement of mitochondrial ROS, excess accumulation of PAR, resulting in AIF-dependent cell death in pancreatic cancer cells. The potential role of PAR accumulation in pancreatic cancer therapy was highlighted in this article, but as the authors said, the effect and mechanism of antitumor in clinical application remains a huge challenge.