

PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 84619

Title: Evolving utility of exosomes in pancreatic cancer management

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05123031

Position: Editorial Board

Academic degree: Doctor, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2023-03-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-22 22:37

Reviewer performed review: 2023-04-04 04:02

Review time: 12 Days and 5 Hours

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 Grade E: Do not publish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

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input checked="" type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Major revision <input checked="" 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

Manuscript ID: 84619 Title: Precision medicine in pancreatic ductal adenocarcinoma: the impact of target therapies on survival in patients harboring actionable mutations

1. In the manuscript, exosomes can be used as non-invasive biomarkers for the early detection, diagnosis and monitoring of pancreatic cancer, as well as therapeutic drug delivery vectors for cancer therapy.
2. In "Different methods to isolate exosomes", the authors should compare the advantages and disadvantages of different separation methods in detail in order to provide readers with the optimal separation method for the analysis of exosomes.
3. In "Exosomes as diagnostic biomarker in pancreatic cancer", the authors should increase the biogenic relationship between exosomes and the genesis, development, and metastasis of pancreatic cancer. In order to better understand why exosomes can be used as biomarkers for pancreatic cancer diagnosis.
4. In "Exosomes as diagnostic biomarker in pancreatic cancer", the authors only describe the MicroRNAs involved in exosomes. In fact, there are some specific proteins in exosomes. The author should analyze and discuss it in detail.
5. For "pancreatic cancer related miRNAs (miR-21, miR-155, miR-17-5p and miR-196a)", the authors should discuss the relationship

between each specific MicroRNA and pancreatic cancer development, development and metastasis. 6. The authors should increase the prospects of exosomes in the diagnosis, treatment, and monitoring of the occurrence, progression, and metastasis of pancreatic cancer. According to the related research results reported in the literature, it is expected to explore the future development of exosomes in the diagnosis, treatment and monitoring of pancreatic cancer.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05469117

Position: Editorial Board

Academic degree: PhD

Professional title: Adjunct Professor, Chief Physician, Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2023-03-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-04-07 09:01

Reviewer performed review: 2023-04-07 16:34

Review time: 7 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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Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" 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

Thank you for inviting me to evaluate the minireviews titled “Clinical Application of Exosomes in Pancreatic Cancer”. It is an interesting paper which summaries that exosomes in liquid biopsies can be used as non-invasive biomarkers for early detection, diagnosis, monitoring as well as therapeutic drug delivery vehicles for cancer therapy. The information in this review is helpful to clinical communities. The paper is well arranged and the logic is clear, and the provided figure and tables are well composed and understandable. The quality of language of the manuscript is quite acceptable for me. So, I recommend that this manuscript may be accepted after minor revision. There are some advices for the authors: 1) Can exosomes be used for monitoring anti-tumor efficacy, and how will they be implemented? 2) The paper lacks the latest references.

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Manuscript NO: 84619

Title: Evolving utility of exosomes in pancreatic cancer management

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00570794

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: India

Manuscript submission date: 2023-03-22

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-09 08:12

Reviewer performed review: 2023-04-15 15:26

Review time: 6 Days and 7 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
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

This is an interesting review about a hot topic. The introduction is well contextualized, the review itself covers the most relevant issues about the possible utility of exosomes in PDAC. Table and figures are clear and appropriate and references are updated. The main limitation of the manuscript is that the main studies are presented superficially: the authors jump to the conclusions without showing supporting data. This makes it difficult for the reader to understand what this kind of liquid biopsy may offer over alternative techniques such as DNACf, CTCs, or even Ca19.9. Additional comments: - Core Tip: "Exosomes are released by the tumor during cancer and their release may correlate with cancer outcome". This sentence seems to be incomplete. - Only data from exosomes are shown when talking about the meta-analysis (ref 47), but data from CTC and DNACf should also be shown. - Authors should show data supporting their statement "Melo et al described that Glyptican-1 identifies cancer exosomes and detects early pancreatic cancer": sensitivity, specificity and number of patients, for instance. - Page 7, first paragraph: The study about a miRNA expression profile based on exosomes refers to prognosis, so it should be located in the next section, not in the section of early

diagnosis. - The sentence "A study by evaluated serum...." Is difficult to understand. A reference should be added. - Table 1, in the section of CTCs: "indicated a sensitivity of 75%, specificity of 96%, and 100%, AUC of 0.87...". What is this 100% referred to?

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Methodology*

Manuscript NO: 84619

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Reviewer's code: 05123031

Position: Editorial Board

Academic degree: Doctor, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2023-03-22

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-05-04 04:30

Reviewer performed review: 2023-05-04 06:59

Review time: 2 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
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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



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SPECIFIC COMMENTS TO AUTHORS

Manuscript ID: 84619 Title: Clinical Application of Exosomes in Pancreatic Cancer

The author has made a comprehensive revision and improvement to the content of the manuscript, basically has met the requirements. However, with regard to the title "Clinical Application of Exosomes in Pancreatic Cancer", the authors should be revised. At present, the application of exosomes in pancreatic cancer is still limited to clinical studies or application studies, and exosomes have not been comprehensively used in pancreatic cancer diagnosis. Therefore, the original title "Clinical Application of Exosomes in Pancreatic Cancer" is poor, and the authors should revise the title.