



PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 72525

Title: Circulating miR-627-5p and miR-199a-5p are promising diagnostic biomarkers of colorectal neoplasia

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05524138

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Consultant Physician-Scientist

Reviewer's Country/Territory: Kazakhstan

Author's Country/Territory: China

Manuscript submission date: 2021-10-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-24 15:30

Reviewer performed review: 2021-10-24 15:32

Review time: 1 Hour

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|---------------------------|---|
| 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 Grade E: Do not publish |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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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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

No comments



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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03730829

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: China

Manuscript submission date: 2021-10-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-28 04:12

Reviewer performed review: 2021-10-28 04:25

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 |
| 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 |



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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 is novel and interesting; However; =Sample size calculation and power of the study is important so that the results of the study can be relied on. =Discussion; you need to compare the results of the study with other studies; - I suggest important and relevant studies to be discussed in Discussion: -Mol Biol Rep. 2020 Apr;47(4):2509-2519. doi: 10.1007/s11033-020-05334-5. Epub 2020 Feb 22. Role of serum Metadherin mRNA expression in the diagnosis and prediction of survival in patients with colorectal cancer



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Peer-review model: Single blind

Reviewer's code: 05934777

Position: Peer Reviewer

Academic degree: PhD

Professional title: Senior Researcher

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2021-10-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-24 02:39

Reviewer performed review: 2021-11-03 06:55

Review time: 10 Days and 4 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 |



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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 authors identify that mir-627-5p and mir-199a-5p are differentially expressed in tumors by public database search. The authors also indicate that both mir-627-5p and mir-199a-5p are molecular biomarker candidates for early detection of colorectal carcinoma. This finding is very interesting. However, there are several points for enhancement in order to publish. I described enhancement points below. Major Authors conclude that both mir-627-5p and mir-199a-5p are derived from tumors based on the findings of Fig.4. However, Fig. 4 shows that expression levels of both mir-627-5p and mir-199a-5p are lower than FHC, suggesting that the origins of these micro RNAs are normal colorectal tissue and tumor micro environment upregulates both micro RNAs expression/secretion from normal tissue. Authors also show that these micro RNAs have tumor suppressor activity in Fig.6. This finding also suggests that these two micro RNA are derived from normal tissue, not tumor. Although I also agree with your conclusion that mir-627-5p and mir-199a-5p are useful for colorectal carcinoma early detection, your data cannot completely exclude the possibility that these micro RNAs are secreted from normal tissue. Therefore, you have to show more direct data in order to determine the origin of these micro RNAs. Or you have to delete your conclusion that these micro RNAs are tumor origin, since your data is immature. Minor Authors used CCK-8 for determination of cell proliferation. I think that CCK-8 kit can measure cell viability, not cell proliferation. CCK-8 contains WST-8 dye and dehydrogenase in mitochondria converts WST-8 dye to WST-8 formazan. This WST-8 formazan can be detected by microplate reader. Therefore, CCK-8 can only detect viable cells. So, please use cell viability instead of cell proliferation. If you would like to use cell proliferation,



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please refer appropriate reference.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05934777

Position: Peer Reviewer

Academic degree: PhD

Professional title: Senior Researcher

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2021-10-22

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2022-01-05 09:56

Reviewer performed review: 2022-01-05 10:11

Review time: 1 Hour

| | |
|---------------------------|---|
| 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 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Peer-reviewer | Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous |



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I have reviewed the manuscript entitled "Circulating miR-627-5p and miR-199a-5p are Promising Diagnostic Biomarkers of Colorectal Neoplasia." I have also confirmed that authors revised their manuscript appropriately according to my comments.