

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 62860

**Title:** Role of exosomes in the diagnosis and treatment of colorectal cancer

**Reviewer's code:** 02941672

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-01-22

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-01-25 06:50

**Reviewer performed review:** 2021-01-31 02:13

**Review time:** 5 Days and 19 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

The authors summarized the latest findings of exosomes on biomarkers and treatment of colorectal cancer. Fecal occult blood test is used for CRC screening, but false negatives cannot be avoided and new methods are expected. The exosome including mi-RNA is a breakthrough that can meet these expectations. In addition, exosomes are showing new developments in existing therapies, suggesting further applications. This review is well described from these perspectives, and there are no points to add or modify.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 62860

**Title:** Role of exosomes in the diagnosis and treatment of colorectal cancer

**Reviewer's code:** 04967668

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Slovenia

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-01-22

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-01-26 06:19

**Reviewer performed review:** 2021-01-31 12:33

**Review time:** 5 Days and 6 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

In the manuscript “The roles of exosomes in early diagnosis and treatment of colorectal cancer” the authors provide a comprehensive review of the published literature regarding the role of exosomes in colorectal cancer. The topic of the manuscript is very interesting since it deals with an interesting field of research with huge potential for clinical use in the nearest future. In the background section they introduce the problem of insufficient assessment of the disease by radiological imaging and need for more specific and sensitive serological tools apart from well-known tumor markers. The concept of liquid biopsy is presented and the role of exosomes within this concept is explored. In the following sections the current understanding of the importance of exosomes in normal and various pathophysiological processes leading to cancer is described. The role of exosomes in proliferation, metastasis, EMT, and angiogenesis of colorectal cancer disease is postulated as well as their negative impact on tumor microenvironment and immune system, all backed with scientific evidence from published literature. Furthermore, the influence of exosomes on current systemic therapies of colorectal cancer is also explained and the potential for further new systemic treatment options is described. The authors have clearly shown that a huge amount of research has been performed on the association of exosomes and colorectal cancer disease. However, while many studies are mentioned no real data are provided. The reader can’t get the impression, of how relevant or significant the findings of the cited studies really are. I would suggest to cite one or two most significant (preferably clinical or translational) studies with most impressive results for each section more detailed, the rest of published literature should be mentioned only briefly. The reference section on itself is relevant and sources seem reliable. The conclusions are fair. All in all, I find the article too long. Although the topic of the manuscript is on my opinion undoubtedly interesting and the research field is also clinically very promising, the case of showing

just that can be made on less pages.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 62860

**Title:** Role of exosomes in the diagnosis and treatment of colorectal cancer

**Reviewer's code:** 04967668

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Slovenia

**Author's Country/Territory:** China

**Manuscript submission date:** 2021-01-22

**Reviewer chosen by:** Chen-Chen Gao

**Reviewer accepted review:** 2021-03-16 12:03

**Reviewer performed review:** 2021-03-18 11:39

**Review time:** 1 Day and 23 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	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 have substantially revised and shortened their manuscript "The roles of

exosomes in early diagnosis and treatment of colorectal cancer” without losing any of the major points made by the previous version of it. I find the revised version much more interesting for the clinically oriented reader. In their review the authors clearly succeeded in showing the important role of exosomes in all phases of colorectal cancer progression as well its potential use as a clinical biomarker.