

## PEER-REVIEW REPORT

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

**Manuscript NO:** 54479

**Title:** Functions and mechanisms of chemokine receptor 7 in tumors of the digestive system

**Reviewer's code:** 05068976

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2020-02-02

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-02-03 12:02

**Reviewer performed review:** 2020-02-13 09:57

**Review time:** 9 Days and 21 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 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
<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 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



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## **SPECIFIC COMMENTS TO AUTHORS**

The review manuscript by Xin et al. provides a descriptive overview of the functions and mechanisms of CXCR7 in digestive system tumors. Although the authors provide an extensive literature review on this topic, several aspects should be revised and the structure of the review should be revisited in order to obtain a more straightforward reading and comprehension. 1 - Regarding the title, I would suggest to include "Function and Mechanism" in the plural; 2 - In general, all the manuscript should be revised by an English native speaker in order to improve the language. There are some sections that are really difficult to follow. 3 - Most of the times, abbreviations are not explained the first time they appear in the text. Furthermore, a list of abbreviations should be provided. 4 - *In vitro*, *in vivo* and *et al* must appear in italics. 5 - I strongly suggest to revise the structure of the review. I would say it would be easier to make one section for each type of cancer, instead of dividing it by cells, *in vivo*, metastasis, etc.. In this way, the authors may explain everything from each tumor in the same section. If wanted, the authors may subdivide then each tumor section in the subtopics explained in the text. 6 - Although the figures presented in the manuscript, related to each type of cancer are relevant, I would suggest to do only one general figure about the roles of CXCR7 in cancer, since the mechanisms between different types of cancer overlap. And a final figure, with the involvement of CXCR7 in different types of cancer (and their relevance to different processes) might be included. Finally, figures and tables must be referenced in the text. 7 - Rather than presenting only an extensive literature review, it would be important also for the authors to provide their critical point of view. Most importantly, the authors should discuss how CXCR7 might impact on cancer therapeutics and how all these findings might be translated into clinics.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 54479

**Title:** Functions and mechanisms of chemokine receptor 7 in tumors of the digestive system

**Reviewer's code:** 00077340

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2020-02-02

**Reviewer chosen by:** Jin-Zhou Tang (Quit in 2020)

**Reviewer accepted review:** 2020-03-29 13:21

**Reviewer performed review:** 2020-03-30 11:45

**Review time:** 22 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input 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**

Review Function and mechanism of chemokine receptor 7 in tumors of the digestive system In this submission from Qi Xin's group, the authors reviewed functional role of CXCR7 in tumor of digestive system. Based on many previous reports the authors reviewed the role of CXCR7 in detail for each organ. This review was well written, but to add quality to this manuscript, the authors should consider the following comments. Major 1) CXCR4 has been studied as a receptor for CXCL12, and its involvement in metastasis and angiogenesis has been reported. CXCR7 is certainly a receptor that binds to CXCL12. However, it is still unknown whether CXCR7 plays a role in cancer malignancy more than CXCR4. Readers want to know about this. I recommend that the authors should describe the point that CXCR7 is more important than CXCR4. 2) The authors used both SDF-1 $\alpha$  and CXCL12 as ligands for CXCR7. I think it should be unified. 3) I'm not sure which CXCR4 or CXCR7 is important for anticancer drug resistance. 4) Page16, Patients (neoadjuvant-treated colorectal cancer liver metastases patients (CRLM) from a phase 2 clinical trial) with KRAS mutational status were considered in the CXCR7-overexpressing patients[62]. CXCR4-expressing SW480 cells are more chemosensitive (5-Fu) than CXCR7-expressing SW480 cells in a CXCL12-secreting environment [20]. CXCL12/CXCR7 contributes to the 5-FU sensitivity of chemokine receptor-expressing colon cancer SW480 cells, whereas CXCL11/CXCR7 has no effect [20]. 5) The authors should add reference after this sentence in page18. Pancreatic stellate cells (PSCs) and transforming growth factor  $\beta$  play a role in this process, which also involves CXCR1/CXCL8 signaling.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 54479

**Title:** Functions and mechanisms of chemokine receptor 7 in tumors of the digestive system

**Reviewer's code:** 02545023

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** United States

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

**Manuscript submission date:** 2020-02-02

**Reviewer chosen by:** Jin-Zhou Tang (Quit in 2020)

**Reviewer accepted review:** 2020-03-25 03:10

**Reviewer performed review:** 2020-04-05 19:36

**Review time:** 11 Days and 16 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 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
<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 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 manuscript by Xin et al critically summarized the expression and role of the chemokine (C-X-C motif) receptor 7 (CXCR7; also termed ACKR3), a GPCR that binds to CXCL11 and 12, and its prognosis in cancers of the digestive system. As a newly discovered receptor for CXCL12, CXCR7 has attracted increasing attention in the field. The authors have sufficiently elaborated and critically reviewed the most relevant topics in their chosen topic. Overall, it's a balanced, comprehensive and critical review.