

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 85295

**Title:** Expression and functional study of cholecystokinin-A receptors on the interstitial Cajal-like cells of the guinea pig common bile duct

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06078906

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor, Researcher

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

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

**Manuscript submission date:** 2023-07-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-07-28 09:36

**Reviewer performed review:** 2023-08-02 09:01

**Review time:** 4 Days and 23 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 Grade E: Do not publish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
Creativity or innovation 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 creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<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 scientific significance
<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 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

The authors constructed animal models to and used them to investigate the expression and functions of CCK-A receptors on Interstitial Cajal-like cells (ICLCs) of Guinea Pig common bile duct. After reasonable grouping the animal samples into CBD sections and CBD-cultured cells groups, the authors found that co-expression of both c-kit and CCK-A receptors in the CBD muscularis layer. And the CBD-isolated cells showed that c-kit was expressed on the surface of ICLCs, while after ICLC removal, CCK's contractility on CBD smooth muscle decreased. In short, the topic of this manuscript is timely and interesting. The authors have organized the manuscript rationally, with good methodology and well-written English. However, some important editing needs to be done before publication: 1. I noticed that in Figure 4 and 5, there are no error bars on the data points. So, how many times did the authors repeat these experiments? 2. In the title, there is a word of "ICC-like Cells" that is not present in the main text. Is this a typo mistake? If not, please add the full name of "ICC-like Cells" in the manuscript. 3. All the abbreviation should be added the full name at the first appearance. For example, the CCK-A in the Objective part.

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 85295

**Title:** Expression and functional study of cholecystokinin-A receptors on the interstitial Cajal-like cells of the guinea pig common bile duct

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06078902

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

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

**Manuscript submission date:** 2023-07-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-07-31 02:51

**Reviewer performed review:** 2023-08-07 08:35

**Review time:** 7 Days and 5 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
Creativity or innovation 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 creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<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 scientific significance
<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 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

Cholecystokinin (CCK) was first found in the gastrointestinal tract (GIT), and is named for its function of stimulating gallbladder contraction, of which the expression and functional properties remain unknown in common bile duct. To address this challenge, in this study, the authors aimed at exploring the expression and the underlying mechanism of CCK-A receptors in common bile duct. The authors used experimental animals of Guinea Pig, immunofluorescence determination, contractile detection, and statistical method to organize their manuscript. The results showed that, the contraction of smooth muscle by CCK was dose-dependently, and the responses of CBD smooth muscle to CCK was reduced by ICLC-removal. In addition, CCK may also regulate CBD contraction via binding to CCK-A receptors on ICLCs. The study design is reasonable, and the results reflects the conclusion as well. I recommend its acceptance after the minor revision. The detailed comments are: 1) In fig. 1 & 2, the immunofluorescence only showed the c-kit positive cells and CCK-A receptor positive cells. I wonder, why not staining the cell nucleus to locate all the cells in the sample? 2) Some details in the paper need to be revised. For instance, in section of Objective, "Cajal-like cells (ICLCs)"



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
<https://www.wjgnet.com>

should be “Interstitial Cajal-like cells (ICLCs)”. 3) Since this work used experimental animals, the authors should provide ethical statement in the manuscript.