



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** office@baishideng.com  
**https://www.wjgnet.com**

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 113636

**Title:** Molecular mechanism of non-coding RNAs-mediated radiosensitivity regulation in colorectal cancer

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

**Peer-review model:** Single blind

**Reviewer's code:** 03699961

**Position:** Associate Editor

**Academic degree and professional title:** MD, PhD, Professor

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

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

**Manuscript submission date:** 2025-08-29

**Reviewer chosen by:** Jia-Lin Zhang

**Reviewer accepted review:** 2025-09-03 12:50

**Reviewer performed review:** 2025-09-04 04:23

**Review time:** 15 Hours

<b>Content to be reviewed</b>	Does the manuscript's content fall within the scope of the journal? <b>Yes</b> Is there any Key Word that is not included in the manuscript title? <b>Yes</b> Do authors' affiliations correspond to the content of the manuscript? <b>Yes</b> Does the Abstract contain the contents of each part of the manuscript (IMRaD)? <b>Yes</b> Are the Key Words complete? <b>Yes</b>
-------------------------------	---



# Baishideng Publishing Group

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** office@baishideng.com  
**https://www.wjgnet.com**

Is the content of the Introduction adequate? **Yes**

Is the content of the Materials and Methods complete?

**Not Applicable**

Is the description of the experiments clear and complete? **Not Applicable**

Are the experimental data presented in the manuscript's biostatistics content reliable? **Not Applicable**

Are the experimental data of the Results true and reliable? **Not Applicable**

Are the quality and resolution of the images up to standard? **Not Applicable**

Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Not Applicable**

Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **No**

Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Not Applicable**

Is the content of the Discussion reasonable? **Yes**

Is the Conclusion reasonable? **No**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **Yes**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **No**

Is the manuscript's text correct, concise, and clear? **Yes**

Will the manuscript's content be of interest to readers?



	<b>Yes</b> Are additional experiments needed for the study? <b>No</b> Does the research scope comply with ethics? <b>Yes</b>
Scientific quality	Grade B (Very good)
Novelty of this manuscript	Grade B (Very Good)
Creativity or innovation of this manuscript	Grade C (Good)
Scientific significance of the conclusion in this manuscript	Grade B (Very Good)
Language quality	Grade B (Very good)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Minor revision
Re-review	Yes
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No
Are your review comments generated by AI tools?	No

### SPECIFIC COMMENTS TO AUTHORS

Title: The molecular mechanism of non-coding RNAs-mediated radiosensitivity regulation in Colorectal Cancer

Xiao Li, Xiuxia Hao, Ruiqing Zhu, and Hongwei Zhou.

Comments



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** office@baishideng.com  
**https://www.wjgnet.com**

In this review manuscript, the authors address the role of noncoding RNAs in the context of radiotherapy for colorectal cancer. The manuscript initially outlines the molecular mechanisms that influence both the efficacy and resistance of radiotherapy in colorectal cancer. Subsequently, the authors concisely present the potential functions of noncoding RNAs as diagnostic and predictive biomarkers, as well as therapeutic targets, framed within the context of the aforementioned mechanisms. The discussion is structured according to the three principal categories of noncoding RNAs: microRNAs, long noncoding RNAs, and circular RNAs.

It should be noted, however, that radiotherapy is not generally regarded as a major therapeutic modality in the management of colorectal cancer. As a result, the clinical relevance of radiotherapy in this specific disease setting remains limited, making it somewhat difficult to envision practical scenarios in which the knowledge summarized here could be directly applied.

The following are several concerns that the authors may wish to address.

Major concerns:

1. Because the radiosensitivity of adenocarcinoma is relatively low and the intestinal wall is highly vulnerable to irradiation, a therapeutic dose of radiation can cause devastating injury to the intestine. Under these circumstances, the clinical relevance of radiotherapy in this disease setting remains limited, making it difficult to envision practical scenarios in which the knowledge summarized in this manuscript could be directly applied.

Since the relationship between noncoding RNAs and radiosensitivity is primarily mediated through DNA damage repair mechanisms, the review would be more straightforward if it focused on summarizing the role of noncoding RNAs in the pathogenesis of colorectal cancer rather than their role in radiotherapy.

Nevertheless, the attempt to consolidate and critically review the current understanding



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** office@baishideng.com  
**https://www.wjgnet.com**

of noncoding RNAs in colorectal cancer is both timely and valuable. The authors should provide clearer articulation of the manuscript's focus and clinical implications.

Minor concerns:

1. Please provide appropriate references to support the statement that circular RNAs play dual functional roles, acting either as competitive endogenous RNAs or as scaffolds for RNA-protein interactions.
2. The authors are encouraged to summarize the functions of noncoding RNAs in a table, as this would greatly facilitate the organization and presentation of the current knowledge.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 113636

**Title:** Molecular mechanism of non-coding RNAs-mediated radiosensitivity regulation in colorectal cancer

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

**Peer-review model:** Single blind

**Reviewer's code:** 03699961

**Position:** Associate Editor

**Academic degree and professional title:** MD, PhD, Professor

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

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

**Manuscript submission date:** 2025-08-29

**Reviewer chosen by:** Shang Wu

**Reviewer accepted review:** 2025-09-28 08:44

**Reviewer performed review:** 2025-09-28 13:20

**Review time:** 4 Hours

<b>Content to be reviewed</b>	Does the manuscript's content fall within the scope of the journal? <b>Yes</b> Is there any Key Word that is not included in the manuscript title? <b>Yes</b> Do authors' affiliations correspond to the content of the manuscript? <b>Yes</b> Does the Abstract contain the contents of each part of the manuscript (IMRaD)? <b>Yes</b> Are the Key Words complete? <b>Yes</b>
-------------------------------	---



# Baishideng Publishing Group

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** office@baishideng.com  
**https://www.wjgnet.com**

Is the content of the Introduction adequate? **Yes**

Is the content of the Materials and Methods complete?

**Not Applicable**

Is the description of the experiments clear and complete? **Not Applicable**

Are the experimental data presented in the manuscript's biostatistics content reliable? **Not Applicable**

Are the experimental data of the Results true and reliable? **Not Applicable**

Are the quality and resolution of the images up to standard? **Not Applicable**

Do the selection and design of the figures and tables follow the principles of necessity and clarity? **Yes**

Is there any duplication between various parts of the manuscript and between the main text and the content presented in the figures and tables? **No**

Are the figures and tables numbered consecutively in the order in which they appear in the manuscript? **Yes**

Is the content of the Discussion reasonable? **Yes**

Is the Conclusion reasonable? **Yes**

Are all references necessary and reasonable? **Yes**

Do authors omit important references? **No**

Are all references related to the topic of the manuscript? **Yes**

Do authors only cite their own earlier publications? **No**

Is the manuscript's text correct, concise, and clear? **Yes**

Will the manuscript's content be of interest to readers? **Yes**

Are additional experiments needed for the study? **No**



	Does the research scope comply with ethics? <b>Yes</b>
<b>Scientific quality</b>	Grade B (Very good)
<b>Novelty of this manuscript</b>	Grade C (Good)
<b>Creativity or innovation of this manuscript</b>	Grade C (Good)
<b>Scientific significance of the conclusion in this manuscript</b>	Grade C (Good)
<b>Language quality</b>	Grade B (Very good)
<b>Does this manuscript describe a study of the existing knowledge system?</b>	Yes
<b>Does this manuscript report a revolutionary innovation?</b>	No
<b>Does this manuscript report an unconventional innovation?</b>	No
<b>Conclusion</b>	Accept
<b>Peer-reviewer statements</b>	Peer-Review: Anonymous
	Conflicts-of-Interest: No
<b>Are your review comments generated by AI tools?</b>	No

### **SPECIFIC COMMENTS TO AUTHORS**

Title: The molecular mechanism of non-coding RNAs-mediated radiosensitivity regulation in Colorectal Cancer

Xiao Li, Xiuxia Hao, Ruiqing Zhu, and Hongwei Zhou.

Comments

The authors have replied to my rebuttals; however, I still believe that it would be more straightforward – particularly for clinicians – to emphasize the role of noncoding RNAs in colorectal cancer pathogenesis through their involvement in DNA repair, since



**Baishideng  
Publishing  
Group**

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

radiation therapy is generally considered only for rectal cancer, as the authors themselves have cited in the guidelines. Nevertheless, the manuscript presents significant information and has sufficient impact to stimulate further engagement regarding the role of noncoding RNAs within the colorectal cancer research community.