

**Reviewer # 1:**

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing) Conclusion: Minor revision

Specific Comments to Authors: This study analyzes the role of EZH2 in the inflammatory response and the underlying mechanisms in inflammatory bowel disease. The topic is important as epigenetic mechanisms have an emerging role in pathogenesis and are involved as therapeutic targets in IBD. The specific role of EZH2 has been rarely investigated in IBD with contrasting results. The authors have managed to perform a rigorous lab based study and to clearly present their results in this paper. Studies like this are needed to identify new potential therapeutic molecules in IBD. I recommend the paper for publication in view of the relevance of its topic and the solid experimental design. Minor comments: Overall, the paper reads well and it is easy for the reader to follow its flow. I would suggest to review the grammar and I indicate some minor language changes, prior to publication (see the attached file).

**Thank you for your professional and constructive comments. Sincerely sorry about the mistakes and we corrected them according to the comments in the revised manuscript. We revised the manuscript according to the comments.**

**Reviewer # 2:**

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing) Conclusion: Major revision

Specific Comments to Authors:

1.DSS is often used to induce colitis in mice, but there seems to be no evidence for treating cells? It is reported that EZH2 inhibits TNF $\alpha$ -regulated apoptosis and inflammation in IBD, cells should be stimulated with TNF- $\alpha$ .

**Thank you for your professional and constructive comments. We revised the manuscript according to the comments in the revised manuscript (Fig.2-6). And we removed the previous results (Fig.2-6).**

2. Since IBD is not a neoplastic disease, the use of normal intestinal epithelial cells (such as NCM460, FHC) can better reflect the pathogenesis of IBD. Please add the relevant experiments of normal intestinal epithelial cell lines.

**Thank you for your professional and constructive comments. We revised the manuscript according to the comments (Fig.2-6). And we removed the previous results (Fig.2-6).**

3. How about the expressions of EZH2 in patients with IBD and in colitis mice?

**Thank you for your professional and constructive comments. We added the related analysis of EZH2 expression in IBD patients and mice according to the comments**

#### 4 LANGUAGE QUALITY

Please resolve all language issues in the manuscript based on the peer review report. Please be sure to have a native-English speaker edit the manuscript for grammar, sentence structure, word usage, spelling, capitalization, punctuation, format, and general readability, so that the manuscript's language will meet our direct publishing needs.

**Thank you for your professional and constructive comments. We improved the language of the manuscript.**

#### 5 EDITORIAL OFFICE'S COMMENTS

Authors must revise the manuscript according to the Editorial Office's comments and suggestions, which are listed below:

(1) Science editor: 1 Scientific quality: The manuscript describes a Basic Study of EZH2 in inflammatory bowel disease. The topic is within the scope of the WJG. (1) Classification: Grade B and Grade C; (2) Summary of the Peer-Review Report: The paper reads well and it is easy for the reader to follow. Author should review the grammar and some minor language need to modify. Suggest add the relevant experiments of normal intestinal epithelial cell lines. The questions raised by the reviewers should be answered; (3) Format: There are 4 figures; (4) References: A total of 21 references are cited, including 10 references published in the last 3 years; (5) Self-cited references: There are 1 self-cited references; and (6) References recommendations (kindly remind):

The authors have the right to refuse to cite improper references recommended by the peer reviewer(s), especially references published by the peer reviewer(s) him/herself (themselves). If the authors find the peer reviewer(s) request for the authors to cite improper references published by him/herself (themselves), please send the peer reviewer's ID number to editorialoffice@wjgnet.com. The Editorial Office will close and remove the peer reviewer from the F6Publishing system immediately. 2 Language evaluation: Classification: Grade B and Grade B. A language editing certificate issued by SEDI Medical Center was provided. 3 Academic norms and rules: The authors provided the Biostatistics Review Certificate, the Institutional Review Board Approval Form, Institutional animal care and use committee statement and The ARRIVE Guideline. No academic misconduct was found in the Bing search. 4 Supplementary comments: No financial support was obtained for the study. The topic has not previously been published in the WJG. 5 Issues raised: (1) The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor; (2) PMID and DOI numbers are missing in the reference list. Please provide the PubMed numbers and DOI citation numbers to the reference list and list all authors of the references. Please revise throughout; (3) The "Article Highlights" section is missing. Please add the "Article Highlights" section at the end of the main text. 6 Recommendation: Conditional acceptance.

(2) Editorial office director:

(3) Company editor-in-chief: I have reviewed the Peer-Review Report, full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Gastroenterology, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors.

**Thank you for your professional and constructive comments. We revised the manuscript according to the comments.**