

## **Response letter**

Dear editor,

Thanks for your attention and efforts for this manuscript. Based on the comments provided by the two reviewers and editors, this review is conditionally accepted. We feel so honored about your acceptance for our work.

Reviewer 2 claimed some suggestions and questions, and editors required us to revise the manuscript format and additional files. The questions raised by the reviewers are answered in the next section. For the issues raised by editors, we answer them as follows:

- (1) The approved grant application forms from National Natural Science Foundation of China (No. 81773135 and 82073192) have been uploaded to the system.
- (2) The 3 figures have been organized into PowerPoint. The figures can be edited by editors. Furthermore, the figures were preliminarily finished using Acrobat Illustrator. For your convenience, the figures of AI versions were also uploaded in the Supplementary Material.
- (3) PMCID numbers have been removed.
- (4) All 3 figures were originally finished and there are no figures that were re-used from studies published elsewhere. Therefore, we do not need to provide documentation that the previous publisher or copyright holder has given permission for the figures.

We express our sincere gratitude again for your work. We are also looking forward to hearing from you regarding our submission. We would be glad to respond to any further questions and comments that you may have.

### **Answer to reviewer 2**

Dear Reviewer,

It is such a great honor that this review received your positive comments, which will encourage us to do more work in this field. We also appreciate the

questions raised about our manuscript, which will help us to refine this review. The answers for your comments are as follows:

- (1) Our manuscript has already contained 4 tables and 3 figures to help express our opinions and make this review more accessible. According to the requirement of WJG, these tables and figures were attached in the manuscript. You can review them in the additional file named '62592-Image File' and '62592-Table File'. We feel sorry to confuse you because of the manuscript format.
- (2) Thanks for your suggestion about the language problem. The manuscript was revised by AJE language editing service and further revised by us again. You can view the revised version in the manuscript.
- (3) We searched the relevant articles published during the period of paper reviewed. A total of 9 studies have been finally selected out and added in this review.
- (4) The manuscript introduced the advancement of ANN in GI diseases, summarized the characteristics and limitations and then proposed the future directions of ANN application. To improve the quality of this review, the coverage of each section has been properly enlarged. We added the 'ANN and noncancerous GI diseases' part and some other contents for better statement. You can view these in the revised manuscript.

Thanks for your comments for this review again. We are looking forward to your response and strive to make this manuscript suitable for publication.