

Dear editor and reviewer:

It is our honored and pleasure to have received comments of our study from you. We appreciate editors/ reviewer's warm work earnestly. Those comments are all valuable and very helpful for Revising and improving our paper, as well as the important guiding significance to our research. We have studied comments carefully and have made correction which we hope meet with approval. Revised portion are marked in red in the paper. Furthermore, we sent the papers to the native speaker for the language editing services provided by the biomedical editing companies and got the certification.

**Reviewer 1(Number ID 06143360)**

Thanks for your recognition for the paper.

**Reviewer 2 (Number ID 06143430)**

Thank you for careful reading. Considering your suggestion, we had changed the papers one by one.

- 1)We had corrected some minor language polishing.
- 2)We had updated the small images.
- 3)We had added limit of the study in the discussion.

**Reviewer 3 (Number ID 06143437)**

Thank you for your kindest suggestion. Considering your suggestion, we had changed the papers one by one.

- 1)We had changed the terms, manufacturers, and SI units that we use throughout the manuscript for better viewing and understanding.
- 2)We used the I/R and Caco2 in the paper. We had made the explanation of LV-CFTR and MOI20 in the paper.
- 3)We also describe abbreviated terms at the beginning of the paper.
- 4)We had referred to the guidelines for authors (for basic research) when constructing the manuscript.
- 5) we had changed many mistyped words and poorly arranged spacings in this manuscript.
- 6)We had explained about the in-vitro sample size or replication.

7) We had re-arranged the figures regarding the sizes and sequences, shorten and wrap the figure explanation and merge them in the results section.

Thank you very much for your suggestions.