

Dear Editor and Reviewers

Thank you for your interest in our manuscript “Parallel mRNA, Proteomics and miRNA expression analysis in cell line models of the small intestine”. We have revised this manuscript following your thoughtful and constructive recommendations all changes are indicated by tracked changes.

Our detailed responses to the reviewers’ comments are to be found below.

Reviewer 00037324

Thank you for your kind comments about the experimental design of the study presented. In response to your concern that the manuscript is outside of the scope of the World Journal of Gastroenterology, we have noted that a similar study on integrated miRNA and mRNA expression in hepatic cells was recently published by the journal (Chen RC, Wang J, Kuang XY, Peng F, Fu YM, Huang Y, Li N, Fan XG. Integrated analysis of microRNA and mRNA expression profiles in HBx-expressing hepatic cells. World J Gastroenterol 2017; 23(10): 1787-1795). We believe that the study presented of integrated “tri-omics” analysis (mRNA, proteomics, miRNAs) provides greater depth of information on two commonly used intestinal cell lines (Caco2 and HT29) than has been previously available and is thus of interest to the field.

Reviewer 02440884

Thank you for the time you have taken in reviewing the submitted manuscript. In reply to your specific comments, the manuscript has been revised to remove the statement that the cell lines represent models of the small intestine. In the case of the second comment, both cell lines were cultured under the same conditions with the only variable being the % serum in the culture media. While we acknowledge that this variable may impact on miRNA expression, it is our belief that the impact is not significant.

Reviewer 00050232

Thank you for your kind comments on the submitted manuscript. In line with your comments, we have revised the discussion

In conclusion thank you again for the time and consideration you have taken. We hope this revised manuscript will meet your approval and recommendation for its publication in World Journal of Gastroenterology.

Yours sincerely

Finbarr O’Sullivan