

RESPONSE TO THE COMMENTS MADE BY THE EDITOR AND THE REVIEWERS

This manuscript has been revised by a native scientist that presently works in our institution for language editing of the manuscripts. We already sent a letter to certify this fact. As I see, you strongly recommend several companies for this matter, which we will be glad to use next time.

Figures 1, 2 and 3 are provided in a different format as PPT so they can be edited.

We thank the first two Reviewers (00504077 and 00069423) for their favorable comments.

Regarding Reviewer 00049991 and following his/her suggestions, we have made the following changes in the manuscript:

- **Page 7, second paragraph, line 3.** It is correct
PBC= primary biliary cirrhosis
PSC= primary sclerosing cholangitis

We **do not mention** primary biliary cholangitis.

- **Page 10, Pathogenesis section.**
We have changed the order of the information contained in this section, which makes more sense and we believe now is less confuse.
- **Conclusion section.**
It has been rewritten.
- **Legends of Figures 1 and 2** have been modified and describe in a better way what we observed in the figures.