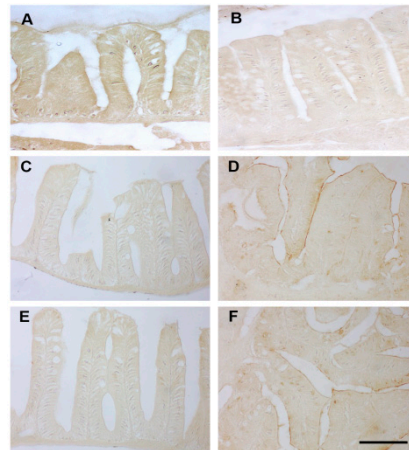**Supplementary Materials**

Figure 1. Antibody specificity control. (A) Control of TNFα with pre-absorptions of the primary antibody with an excess of the relative peptide. (B) Control of caspase 3 with pre-absorptions of the primary antibody with an excess of the relative peptide. (C, D) Representative images of the specificity of the antibodies COX2 and Calnexin validated by omitting the primary antibodies. (E, F) Representative images of the specificity of the antibody PCNA validated by omitting the primary antibody. Scale bar: 100 μm.
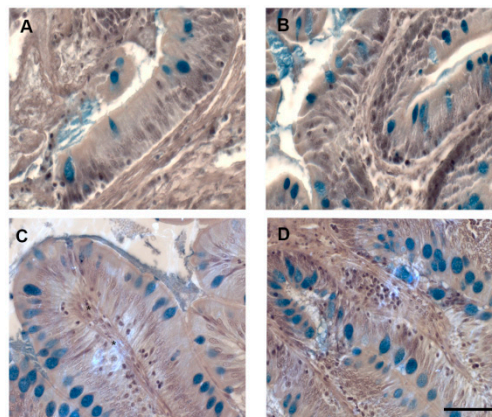

Figure 2. Alcian blue staining of the zebrafish intestine. (A) Anterior intestine (AI) of control zebrafish. (B) AI of Diet induced obesity (D.I.O.) zebrafish. (C) AI of D.I.O. zebrafish followed by 3,5–T2. (D) AI of D.I.O. zebrafish treated with 3,5–T2. Scale bar: 25 μm.