Clinical Image　　　　　　　　　　　　　　　　　　　**Hybrid Open Access**

Low Dose Interleukin-10 and Anti-IL-1 Antibody in Modulating Intestinal Inflammation

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Clinical Image

This image exemplifies the qualitative evaluation of the structural integrity of the colon which express the Zonula Occludens-1 (ZO-1) tight junctions (TJ) protein. The experiment were performed in order to elucidate the effects of the oral intake of a solution containing interleukin-10 and anti-IL-1 antibody in modulating intestinal inflammation induced by (Dextran Sodium Sulphate) DSS oral administration in a validated experimental murine model. Immunofluorescence staining anti-ZO-1 (in red) in colon samples of different treatment groups highlight the different epithelial barrier TJ structural integrity (arrows).
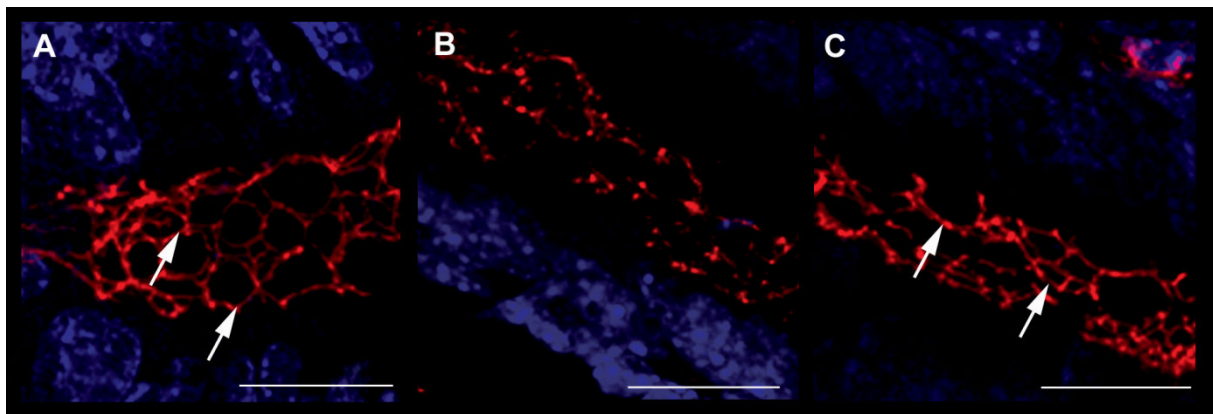

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A significative example for each treatment group is shown: A (UNTR; untreated, hydroalcoholic solution only); B (DSS; DSS 2% plus hydroalcoholic solution); C (DSS+IL-10/anti-IL-1; DSS 2% +interleukin-10 plus anti-IL-1 antibody) Bars: 20 μm. This image clearly shows that mice treated with low doses of interleukin 10 and anti-IL-1 antibody were comparable to untreated mice, in terms of maintenance of an healthy epithelial structure.