

## Supplementary material

### Supplementary Figure 1 (S1).

Trans-bronchial biopsy prior to benralizumab treatment showing eosinophil infiltration at the capillary wall (black arrows - A) and immune-histochemical analysis with an anti-IL-5R $\alpha$  polyclonal antibody showing positive staining of submucosal infiltrating eosinophils (black arrows - B). Trans-bronchial biopsy after benralizumab treatment with no eosinophilic vasculitis (C) and immune-histochemical analysis confirming the absence of IL-5R $\alpha$ -positive cells (D).

