IL-31 is predominantly produced by effector memory TH2-polarized CRTH2+ T cells co-localized with autologous epidermal cells with or without SE stimulation. All CPPP had anti-Streptococcus response to treatments. We propose that this finding is related to an acute tonsillar infection. Patients' heterogeneity may shape clinical course and determine the outcome of treatments. The IL-31-producing circulating T cells subset represents a unique population of regulatory T cells (Treg) that has been identified as a potential target in the treatment of psoriasis. The impaired suppressive activity and altered response to IL-33 of regulatory T cells in a psoriasis model may be due to decreased ST2 expression on the surface of Treg.

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