104 CI10F616 is specifically expressed by pathogenic Th2 cells in atopic dermatitis

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Molecular analysis of treatment-refractory pityriasis rubra pilaris uncovers an IL-1 signature with therapeutic proof-of-concept of the anti-IL-1 biological anaakinra A Kolins 1, 2, T. Kuhnigk 1, I. French 1, M. Mellet 1, P. Johannsen 1, A. Satayam 1, G. Tukos 1, 2, M. Utzner 1, 2, 3, S. Schroder 1, 2, 4, 5, 6 and E. Conta 1, 2, 3 University Hospital Zurich, Zurich, Switzerland, 6, 7 Integrated Research Institute, Luebeck, Germany

Pityriasis rubra pilaris (PRP) is a rare inflammatory skin disease phenomenologically presenting features within the spectrum of psoriasis and atopic eczema. The pathogenesis is not fully understood but an activation of the interleukin (IL)-23 helper (Th) 17 axis has been shown, which currently present as a promising treatment option. Here we present an in depth molecular analysis of cytokine tissue profiling (nanotagging) of patients with PRP (during and post-inflammation) comparing to plaque-type psoriasis, atopic dermatitis and healthy controls. We could show that besides proinflammatory cytokines like TNF-alpha, IL-23 and IL-17, also IL-1-alpha and IL-1 beta were upregulated during disease course, which normalized after resolution of skin inflammation. Principal component analysis and pathway analysis are currently ongoing. Additionally, we performed serum cytokine analysis in all groups. In a patient with a second flare of PRP and a positive IL-1 signature, we applied anaakinra, a recombinant IL-1 receptor antagonist, over 12 weeks. Skin severity improved from PASI 11 to 2.6 (77% reduction). Digital special profiling (GroMX) from serial biopsies are currently ongoing. In summary we could show for the first time, that targeting IL-1 in human PRP could be a treatment option in this subgroup of treatment-refractory patients.

105 How important is the speed of response to biological therapy?

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How important is the speed of response to biological therapy?

Psoriasis is a chronic inflammatory disease that affects around 1-3% of the adult population. The most common type, psoriasis vulgaris, is a consequence of genetic susceptibility and has multiple triggers. Immunological and genetic studies have identified cytokines such as TNF-alpha, IL-17 and IL-23 as key factors in the pathogenesis of psoriasis and become targets for the new biologic therapies. We present the case of a 65-year-old patient, smoker, who presents for an itchy rash consisting of erythematous plaques with thick, silvery scales affecting the palms and soles. Also, small papules and erosions on the hands and feet and joint pain and fatigue were noted. The patient followed numerous therapies with topical medication, PUVA therapy and multiple biologic therapies. We present the case of a 65-year-old patient, smoker, who presents for an itchy rash consisting of erythematous plaques with thick, silvery scales affecting the palms and soles. 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