ABSTRACT BOOK ABSTRACTS



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ATOPIC ECZEMA/DERMATITIS

EXPRESSION AND SIGNIFICANCE OF LESIONAL AND SERUMAL INTERLEUKIN-35 LEVELS IN ATOPIC DERMATITIS-LIKE MURINE MODEL

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Introduction: Atopic dermatitis (AD) is a chronic, relapsing, inflammatory skin disease whose exact pathogenesis is unknown. Cell imbalance between Th17/Treg may be an important factor in the pathogenesis. IL-35 is a novel inhibitory cytokine mainly secreted by Treg cells, and its relationship with the pathogenesis of AD is currently unknown.

Objective: To explore the role of interleukin-35(IL-35) in the pathogenesis of atopic dermatitis.

Methods: Thirty BALB/c mice were randomly divided into model group and control group, fifteen in each group. The atopic dermatitis models were established by topical application of 0.5% 2,4-dinitrofluorobenzene. After successful modeling, the serum levels of IL-35, IL-4, IFN- γ and IL-17 were detected by ELISA, the expressions of IL-12p35mRNA and EBI3 mRNA were tested by RT-PCR. Results In the model group, the inflammation was obvious in the skin of back, and the histopathology of skin lesions showed thickness of the epidermis, spongiosis and infiltration of inflammatory cells in the superficial dermis. The serum level of IL-35 in model group was lower than that in control group(P<0.05), The serum levels of IL-4, IL-17 in model group were higher than those in controls(P<0.05). There was a negative correlation between IL-35 and IL-17 level(P<0.05). The expressions of IL-12p35 mRNA and EBI3mRNA were decreased in the lesions of model group.

Conclusion: The expression levels of IL-35 were declined both in the serum and the skin lesions of mouse atopic dermatitis models, it may play a role in the pathogenesis of atopic dermatitis.



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