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Atopic Dermatitis: Pathogenesis and Emerging Therapies

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Message from the Guest Editor

Atopic dermatitis is a chronic inflammatory skin disease characterized by recurrent itching and dermatitis. Its pathogenesis includes the interaction of three factors: abnormal skin barrier, itch-scratch, and type 2 inflammation. Psychological stress from work and relationships exacerbates the pathogenesis of atopic dermatitis. Thus, to elucidate the pathogenesis of atopic dermatitis, interdisciplinary research is necessary. In fact, recent studies focusing on neuro-immune interactions have shown that anti-IL-4Ra antibodies and JAK inhibitors are effective therapeutic agents for atopic dermatitis. However, due to the existence of non-responders to the therapies and other factors, there is a need to develop multifaceted methods for the treatment and prevention of atopic dermatitis. It also requires further elucidation of the molecular and cellular basis of this mechanism due to the complex pathogenesis.

This Special Issue aims to provide a summary of these emerging fields, with an emphasis on novel developments in anti-pruritus, anti-inflammation products, emollients that improve the skin barrier, and biomarkers and novel mechanisms of the pathogenesis of atopic dermatitis.



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